FCC RF Test Report

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

BRAND NAME : BLU

MODEL NAME : LIFE X LTE

FCC ID : YHLBLULIFEXLTE

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 Jun. 03, 2015 and testing was completed on Jun. 16, 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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Report Issued Date : Aug. 05, 2015

Testing Laboratory

Report No.: FG560305A

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE	
FG560305A	Rev. 01	Initial issue of report	Aug. 05, 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) §2.1049 RSS-133(6.5) Occupied Bandwidth RSS-139 (3.1)		Reporting Only	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 14.98 dB at 5550.600 MHz
3.8	§2.1055 §22.355 §2.1055 §24.235 §27.54	RSS-GEN(6.11) RSS-132 (5.3) RSS-GEN(6.11) RSS-133 (6.3) RSS-139 (6.4)	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-

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1 **General Description**

1.1 Applicant

CT Asia (HK) Ltd.

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

1.2 Manufacturer

CT Asia (HK) Ltd.

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

1.3 Product Feature of Equipment Under Test

	Product Feature			
Equipment	Mobile phone			
Brand Name	BLU			
Model Name	LIFE X LTE			
FCC ID	YHLBLULIFEXLTE			
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/DC-HSDPA/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE			
IMEI Code	Conducted: 865843021953317/865843021952012 Radiation: 865843021953598/865843021952293 ERP&EIRP: 865843021953598/865843021952293			
HW Version	LWDM030			
SW Version	LLDYL02_Post-CS4_2.0.35.1			
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 WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz						
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz GSM850: 33.08 dBm GSM1900: 30.12 dBm						
Maximum Output Power to Antenna	WCDMA Band V : 22.83 dBm WCDMA Band IV : 22.99 dBm WCDMA Band II : 23.08 dBm						
Antenna Type	IFA Antenna						
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only) DC-HSDPA: 64QAM						

1.5 Modification of EUT

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

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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	0.5598	0.0120 ppm	247KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1459	0.0179 ppm	250KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0573	0.0108 ppm	4M17F9W
Part 24	GSM1900 GSM	GMSK	0.4477	0.0090 ppm	249KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.3573	0.0053 ppm	248KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.1052	0.0069 ppm	4M18F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1535	0.0063 ppm	4M18F9W

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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	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					
Test Site No.	Sporton Site No.	FCC/IC Registration No.				
lest site No.	03CH02-SZ	566869/4086F				

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

1.8 Applicable Standards

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

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

Remark:

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

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Test Configuration of Equipment Under Test

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						
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link						
GSM 1900	■ GSM Link	■ GSM Link						
GSW 1900	■ EDGE class 8 Link	■ EDGE class 8 Link						
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

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

GSM mode for GMSK modulation,

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

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

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

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Conducted Power Measurement Results:

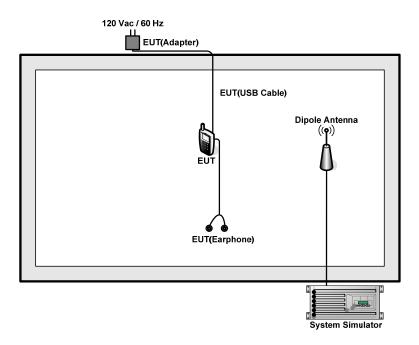
Conducted Power (*Unit: dBm)									
Band		GSM850			GSM1900				
Channel	128	189	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GSM	33.08	33.00	33.01	30.09	30.11	<mark>30.12</mark>			
GPRS class 8	33.05	32.99	33.00	30.01	30.02	30.07			
GPRS class 10	32.95	32.81	32.90	29.91	29.84	29.90			
GPRS class 11	32.83	32.69	32.77	29.77	29.68	29.76			
GPRS class 12	32.64	32.59	32.62	29.57	29.51	29.55			
EGPRS class 8	27.00	27.10	27.33	25.88	25.78	25.80			
EGPRS class 10	26.92	26.96	27.11	25.79	25.61	25.72			

	Conducted Power (*Unit: dBm)										
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	22.82	22.81	22.79	22.62	22.89	23.07	22.92	22.98	22.85		
RMC 12.2K	<mark>22.83</mark>	22.82	22.80	22.64	22.90	<mark>23.08</mark>	22.93	<mark>22.99</mark>	22.86		
HSDPA Subtest-1	21.37	21.36	21.29	21.21	21.38	21.63	21.41	21.47	21.33		
HSDPA Subtest-2	21.32	21.31	21.30	21.14	21.39	21.62	21.40	21.44	21.30		
HSDPA Subtest-3	21.31	21.30	21.29	21.13	21.41	21.61	21.43	21.45	21.27		
HSDPA Subtest-4	21.30	21.29	21.25	21.10	21.35	21.48	21.41	21.46	21.31		
DC-HSDPA Subtest-1	21.03	20.79	20.85	20.36	20.51	20.62	20.71	20.64	20.51		
DC-HSDPA Subtest-2	21.06	20.87	20.86	20.42	20.53	20.64	20.72	20.65	20.53		
DC-HSDPA Subtest-3	21.00	20.83	20.88	20.35	20.50	20.61	20.69	20.63	20.56		
DC-HSDPA Subtest-4	21.00	20.79	20.89	20.35	20.55	20.62	20.75	20.63	20.54		
HSUPA Subtest-1	21.18	21.16	21.13	20.85	21.02	21.13	21.70	21.73	21.64		
HSUPA Subtest-2	20.61	20.60	20.58	20.32	20.51	20.63	20.28	20.30	20.23		
HSUPA Subtest-3	20.52	20.51	20.50	19.94	20.15	20.24	20.75	20.77	20.71		
HSUPA Subtest-4	21.24	21.23	21.20	21.23	21.46	21.58	21.00	21.03	20.95		
HSUPA Subtest-5	20.99	20.98	20.96	20.52	20.75	20.82	21.16	21.20	21.12		

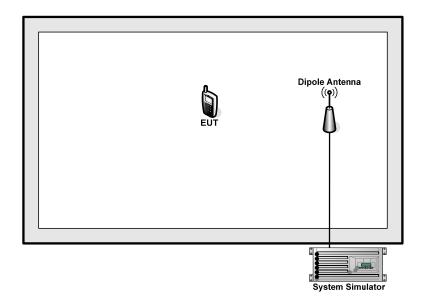
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2.2 Connection Diagram of Test System

<For 24E>



<For 22H/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.

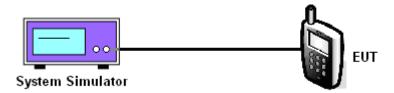
3.1.2 Measuring Instruments

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)		GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)			
Channel	128 (Low)	189 (Mid)	251 (High)	128 189 251 (Low) (Mid) (High)			4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Conducted Power (dBm)	33.08	33.00	33.01	27.00	27.10	27.33	22.83	22.82	22.80

	PCS Band								
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	30.09	30.11	30.12	25.88	25.78	25.80	22.64	22.90	23.08

	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)	22.93	22.99	22.86					

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.

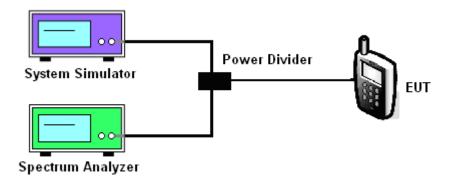
3.2.2 Measuring Instruments

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)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Peak-to-Average Ratio (dB)	0.29	0.29	0.29	2.90	2.85	3.00	2.96	2.92	3.20

PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	0.27	0.27	0.27	3.00	2.70	2.68	3.28	3.32	3.32

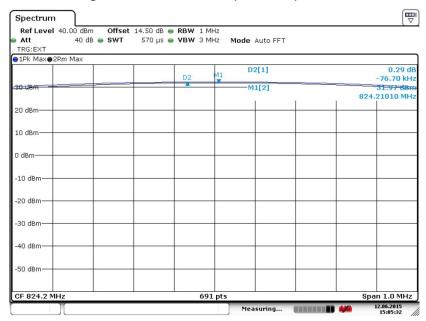
AWS Band								
Modes	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low)	1312(Low) 1413 (Mid) 1513 (High)						
Frequency (MHz)	1712.4	1732.6	1752.6					
Peak-to-Average Ratio (dB)	3.04	3.04	3.00					

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

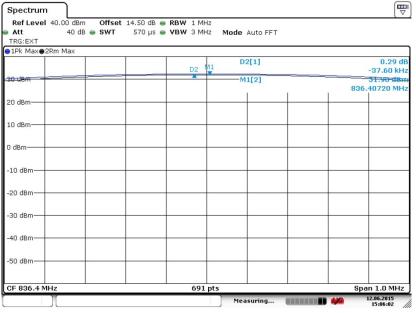


Peak-to-Average Ratio on Channel 128 (824.2 MHz)



Date: 12.JUN.2015 15:05:31

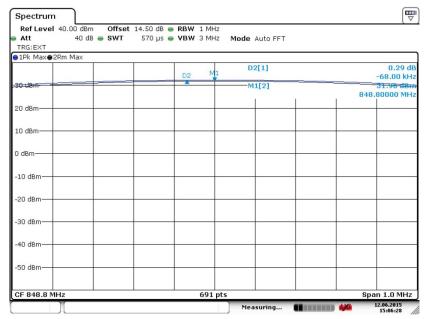
Peak-to-Average Ratio on Channel 189 (836.4 MHz)



Date: 12.JUN.2015 15:06:02

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 17 of 119
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Peak-to-Average Ratio on Channel 251 (848.8 MHz)

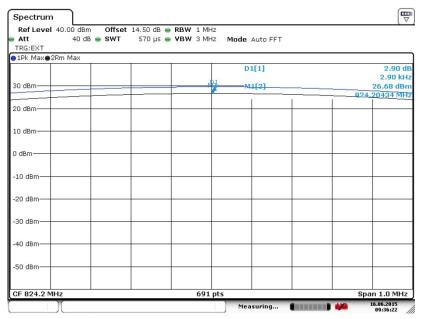


Date: 12.JUN.2015 15:06:27

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 18 of 119
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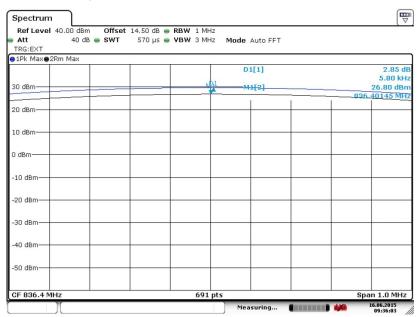
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 16.JUN.2015 09:36:22

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



Date: 16.JUN.2015 09:36:03

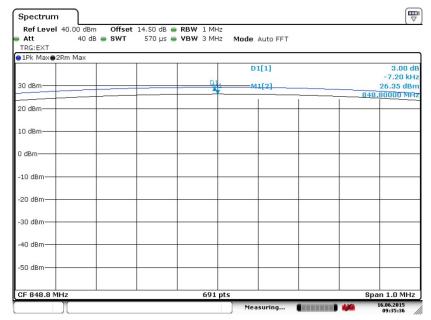
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Peak-to-Average Ratio on Channel 251 (848.8 MHz)

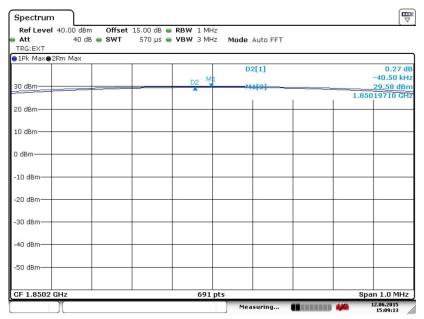


Date: 16.JUN.2015 09:35:36

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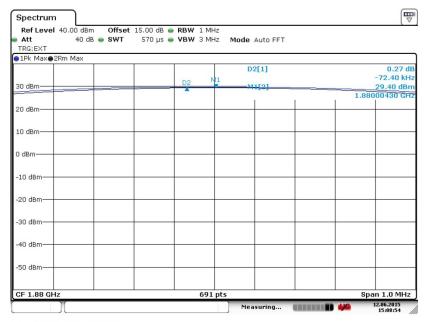
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 12.JUN.2015 15:09:12

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



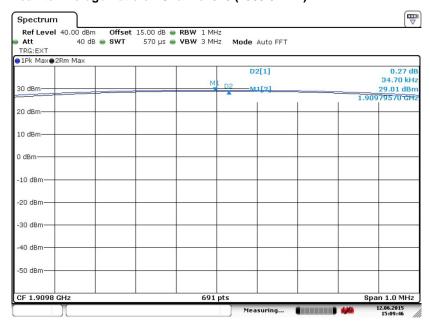
Date: 12.JUN.2015 15:08:53

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



Date: 12.JUN.2015 15:09:45

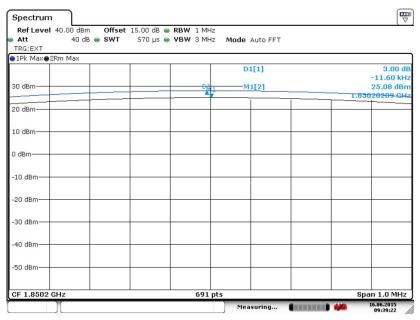
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 22 of 119 Report Issued Date: Aug. 05, 2015

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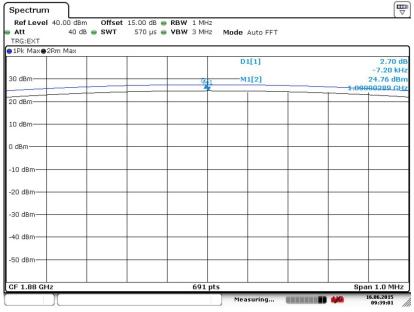
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 16.JUN.2015 09:39:22

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



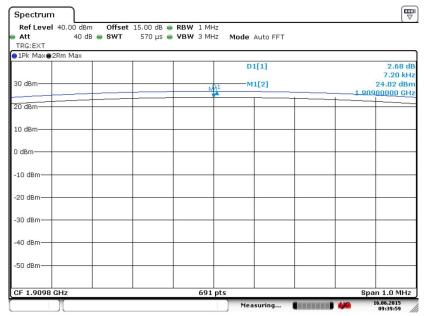
Date: 16.JUN.2015 09:39:00

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 23 of 119
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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

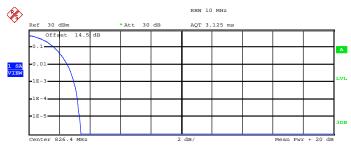


Date: 16.JUN.2015 09:39:59

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

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



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

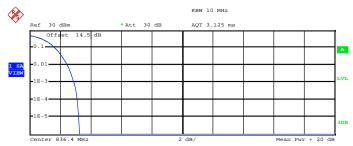
Mean 22.82 dBm
Peak 26.23 dBm
Crest 3.41 dB

10 % 1.68 dB
1 % 2.56 dB

.1 % 2.96 dB .01 % 3.20 dB

Date: 12.JUN.2015 22:06:07

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



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

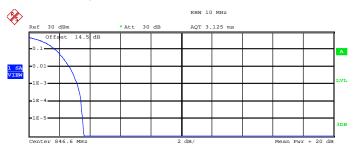
Mean 22.47 dBm
Peak 25.74 dBm
Crest 3.27 dB

10 % 1.64 dB
1 % 2.48 dB
.1 % 2.92 dB
.01 % 3.12 dB

Date: 12.JUN.2015 22:06:29

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



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

22.84 dBm Peak 26.45 dBm Crest 3.61 dB 10 % 1.76 dB 2.68 dB 1 % .1 % 3.20 dB

3.44 dB

Date: 12.JUN.2015 22:06:53

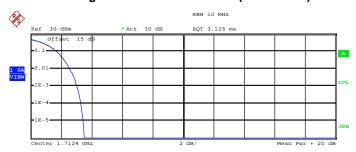
.01 %

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 26 of 119 Report Issued Date: Aug. 05, 2015 Report Version

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

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



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

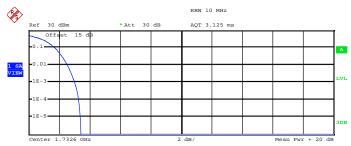
Mean 21.60 dBm Peak 25.10 dBm Crest 3.51 dB 10 % 1.72 dB 2.56 dB 1 % .1 % 3.04 dB

3.28 dB

Date: 12.JUN.2015 21:44:03

.01 %

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



Complementary Cumulative Distribution Function (100000 samples) $\begin{tabular}{ll} \begin{tabular}{ll} Trace & 1 \end{tabular}$

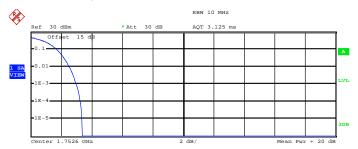
21.34 dBm Mean Peak 24.75 dBm Crest 3.41 dB 10 % 1.72 dB 1 % 2.56 dB .1 % 3.04 dB .01 % 3.28 dB

Date: 12.JUN.2015 21:44:50

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 27 of 119 Report Issued Date: Aug. 05, 2015 Report Version

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



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

Mean 21.73 dBm
Peak 25.10 dBm
Crest 3.37 dB

10 % 1.72 dB
1 % 2.56 dB
.1 % 3.00 dB

3.28 dB

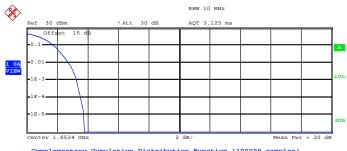
Date: 12.JUN.2015 21:45:17

.01 %

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

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



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

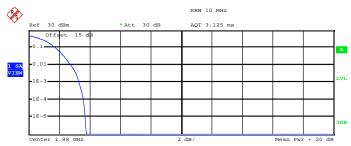
Mean 21.40 dBm Peak 25.18 dBm Crest 3.78 dB 10 % 1.76 dB 2.76 dB 1 % .1 % 3.28 dB

3.56 dB

.01 %

Date: 12.JUN.2015 21:23:33

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



Complementary Cumulative Distribution Function (100000 samples) $\begin{tabular}{ll} \begin{tabular}{ll} Trace & 1 \end{tabular}$

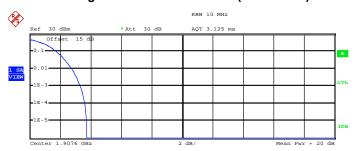
Mean 20.49 dBm Peak 24.26 dBm Crest 3.77 dB 10 % 1.76 dB 1 % 2.76 dB .1 % 3.32 dB .01 % 3.60 dB

Date: 12.JUN.2015 21:23:53

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



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

Mean 20.24 dBm Peak 23.98 dBm Crest 3.74 dB 10 % 1.76 dB 1 % 2.76 dB

3.32 dB

.01 % 3.64 dB

Date: 12.JUN.2015 21:24:21

.1 %

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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							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	824.2	26.91	0.4909	24.26	0.2667		
Middle	836.4	27.46	0.5572	24.07	0.2553		
Highest	848.8	27.48	0.5598	24.18	0.2618		
Limit	ERP < 7W	Res	sult	PASS			

GSM850 (EDGE class 8) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	824.2	20.35	0.1084	17.77	0.0598		
Middle	836.4	21.64	0.1459	18.67	0.0736		
Highest	848.8	21.16	0.1306	18.43	0.0697		
Limit	ERP < 7W	Res	sult	PASS			

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP							
Channal	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	826.4	17.52	0.0565	14.20	0.0263		
Middle	836.4	17.58	0.0573	14.47	0.0280		
Highest	846.6	17.11	0.0514	14.16	0.0261		
Limit	ERP < 7W	Res	sult	PASS			

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3.3.5 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP								
Channel	Frequency	Horiz	ontal	Vertical				
Chamilei	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)			
Lowest	1850.2	25.39	0.3459	24.49	0.2812			
Middle	1880.0	25.21	0.3319	25.02	0.3177			
Highest	1909.8	26.51	0.4477	24.63	0.2904			
Limit	EIRP < 2W	Re	sult	PASS				

GSM1900 (EDGE class 8) Radiated Power EIRP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)		
Lowest	1850.2	25.05	0.3199	24.08	0.2559		
Middle	1880.0	24.57	0.2864	24.13	0.2588		
Highest	1909.8	25.53	0.3573	24.99	0.3155		
Limit	EIRP < 2W	Re	sult	PA	SS		

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP						
Channel	Frequency	Horizontal		Vertical		
Channel	(MHz)	EIRP(dBm) EIRP(W)		EIRP(dBm)	EIRP(W)	
Lowest	1852.4	16.85	0.0484	18.89	0.0774	
Middle	1880.0	17.57	0.0571	19.81	0.0957	
Highest	1907.6	17.83	0.0607	20.22	0.1052	
Limit	EIRP < 2W	Result		PASS		

WCDMA Band IV(RMC 12.2Kbps) Radiated Power EIRP						
Channal.	Frequency	Horiz	ontal	Vertical		
Channel	(MHz)	EIRP(dBm) EIRP(W)		EIRP(dBm)	EIRP(W)	
Lowest	1712.4	21.75	0.1496	20.15	0.1035	
Middle	1732.6	21.86	0.1535	20.02	0.1005	
Highest	1752.6	20.57	0.1140	18.05	0.0638	
Limit	EIRP < 1W	Result		PASS		

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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.

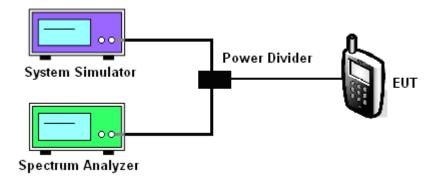
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



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3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			
Channel	128	189	251	128	189	251	
Gildilliei	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	245.00	246.00	247.00	241.00	247.00	250.00	
26dB BW (kHz)	310.00	310.00	303.00	296.00	308.00	308.00	

PCS Band							
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			
Channel	512	661	810	512	661	810	
Frequency (MHz)	(Low) 1850.2	(Mid) 1880	(High) 1909.8	(Low) 1850.2	(Mid) 1880	(High) 1909.8	
99% OBW (kHz)	244.00	249.00	249.00	246.00	241.00	248.00	
26dB BW (kHz)	314.00	310.00	303.00	290.00	301.00	303.00	

Cellular Band						
Modes	WCDMA Band V (RMC 12.2Kbps)					
Channel	4132 (Low) 4182 (Mid) 4233 (High)					
Frequency (MHz)	826.4	836.4	846.6			
99% OBW (MHz)	4.17	4.16	4.15			
26dB BW (MHz)	4.66	4.67	4.66			

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)	4.18	4.18	4.18			
26dB BW (MHz)	4.68	4.68	4.68			

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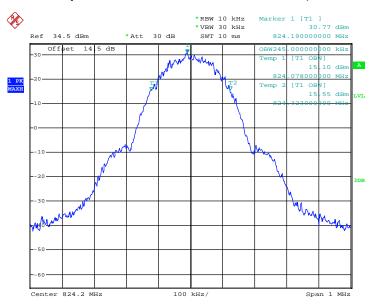
PCS Band				
Modes	WCDMA Band II (RMC 12.2Kbps)			
Channel	9262 (Low) 9400 (Mid) 9538 (High)			
Frequency (MHz)	1852.4	1880	1907.6	
99% OBW (MHz)	4.17	4.18	4.18	
26dB BW (MHz)	4.67	4.66	4.68	

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

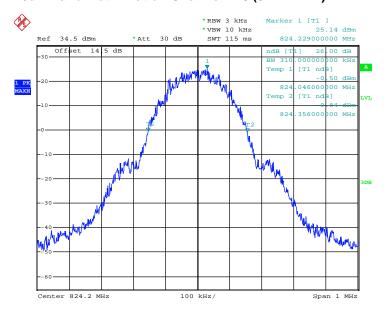
Band: GSM 850	Test Mode :	GSM Link (GMSK)
---------------	-------------	-----------------

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



Date: 12.JUN.2015 23:38:21

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

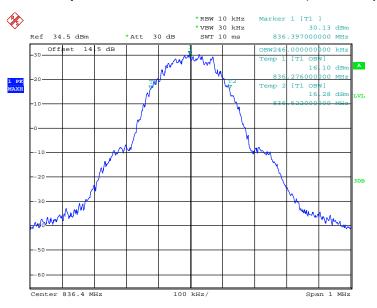


Date: 12.JUN.2015 23:32:25

SPORTON INTERNATIONAL (SHENZHEN) INC.

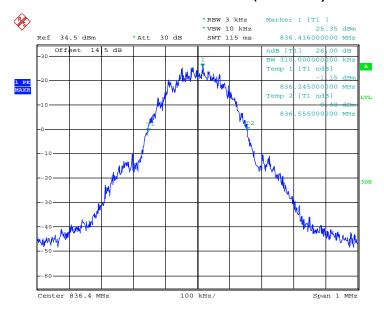
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 38 of 119
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 12.JUN.2015 23:39:07

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



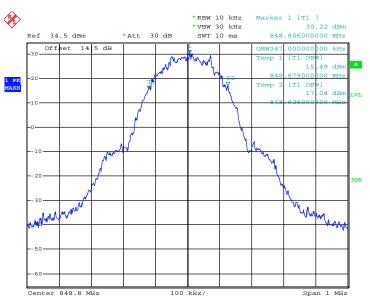
Date: 12.JUN.2015 23:36:41

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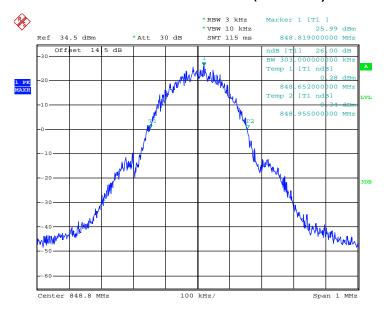
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 12.JUN.2015 23:40:29

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



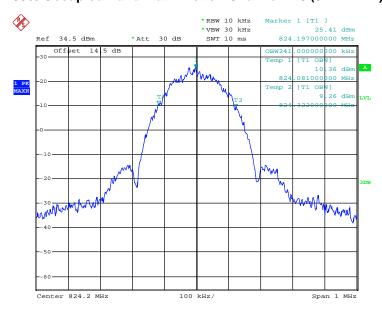
Date: 12.JUN.2015 23:34:08

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

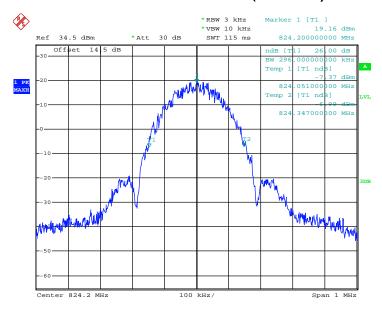
99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)

Report No.: FG560305A



Date: 12.JUN.2015 22:46:55

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



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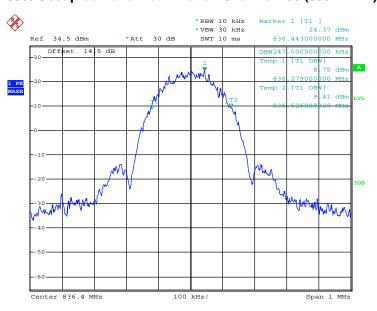
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Report Issued Date: Aug. 05, 2015

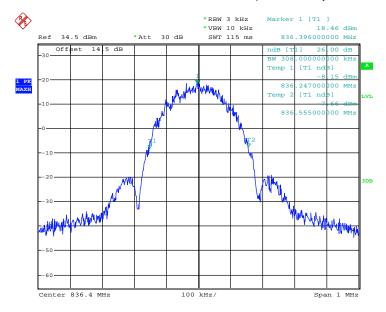
Date: 12.JUN.2015 22:44:53

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



Date: 12.JUN.2015 22:47:52

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 12.JUN.2015 22:45:34

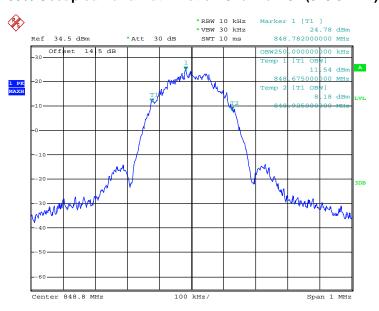
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 42 of 119
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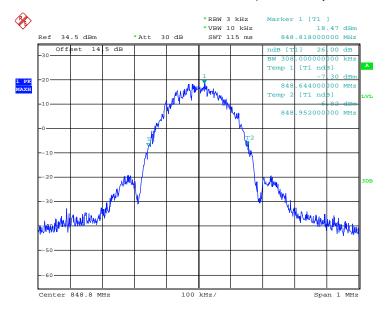
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 12.JUN.2015 22:48:33

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



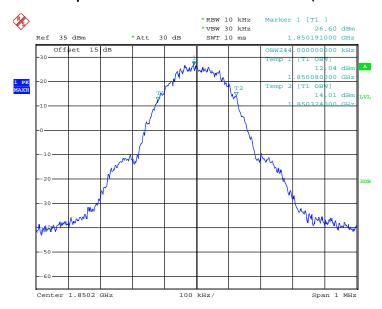
Date: 12.JUN.2015 22:46:14

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 43 of 119
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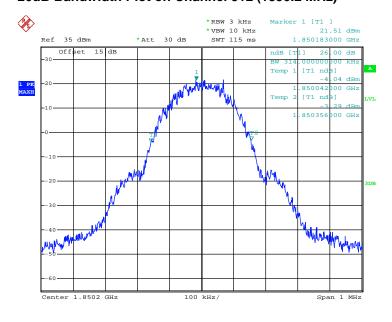
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 12.JUN.2015 23:20:59

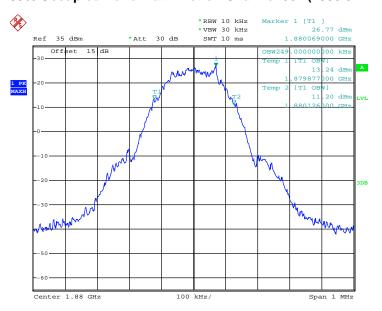
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 12.JUN.2015 23:18:15

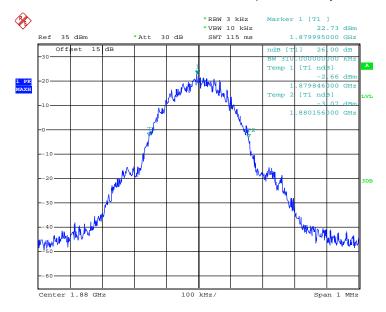
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 44 of 119
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 12.JUN.2015 23:21:33

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 12.JUN.2015 23:18:58

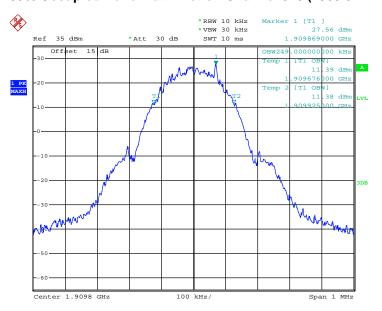
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 45 of 119
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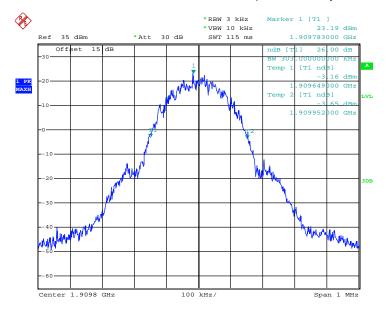
Report Version : Rev. 01

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



Date: 12.JUN.2015 23:22:14

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



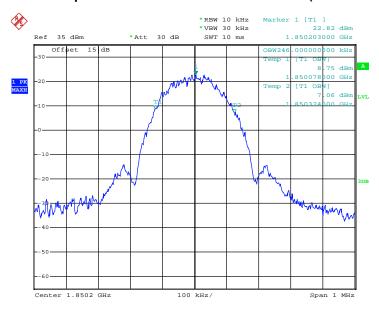
Date: 12.JUN.2015 23:19:49

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 46 of 119
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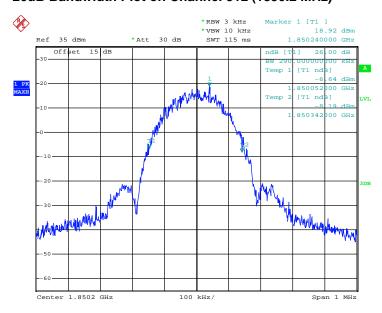
GSM 1900 Band: **Test Mode:** EDGE class 8 Link (8PSK)

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



Date: 12.JUN.2015 23:01:56

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 12.JUN.2015 22:59:48

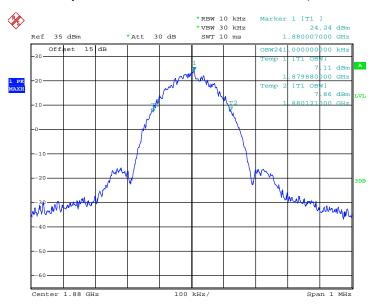
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 47 of 119 Report Issued Date: Aug. 05, 2015

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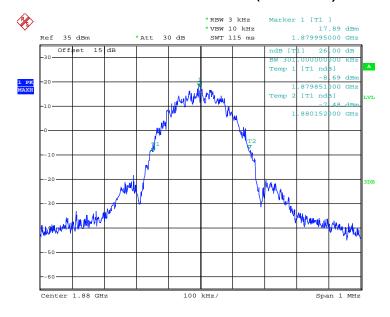
Report Version : Rev. 01

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



Date: 12.JUN.2015 23:02:29

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



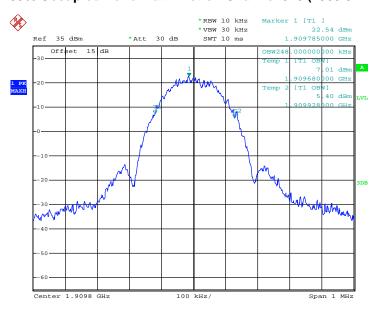
Date: 12.JUN.2015 23:00:28

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 48 of 119
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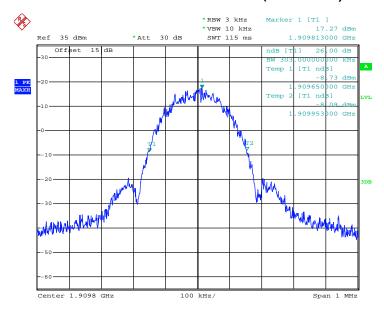
Report Version : Rev. 01

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



Date: 12.JUN.2015 23:03:04

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

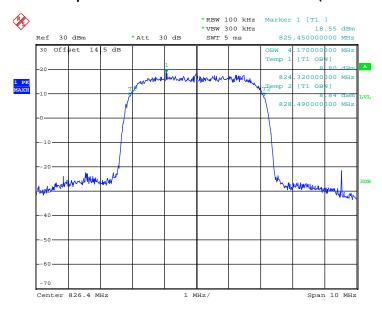


Date: 12.JUN.2015 23:01:16

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 49 of 119
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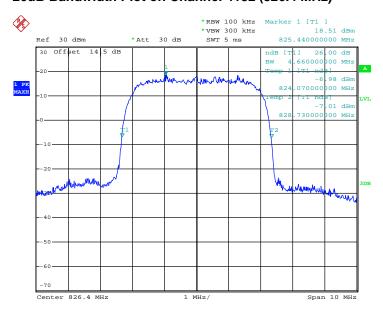
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 12.JUN.2015 21:56:23

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

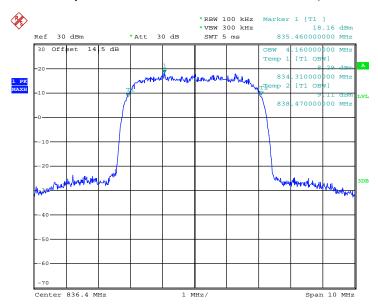


Date: 12.JUN.2015 21:54:15

SPORTON INTERNATIONAL (SHENZHEN) INC.

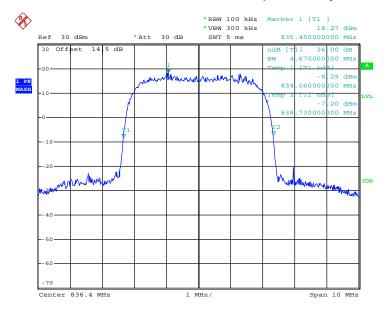
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 50 of 119
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99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 12.JUN.2015 21:56:55

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 12.JUN.2015 21:55:00

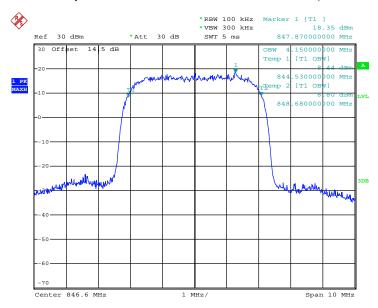
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 51 of 119 Report Issued Date : Aug. 05, 2015

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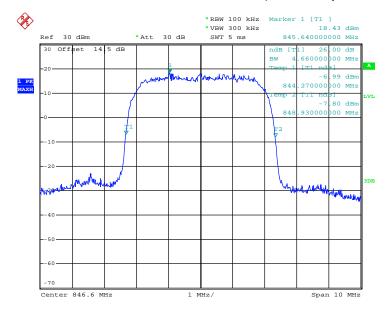
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99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 12.JUN.2015 21:57:29

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



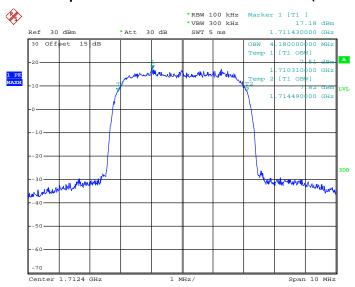
Date: 12.JUN.2015 21:55:40

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 52 of 119
Report Issued Date : Aug. 05, 2015
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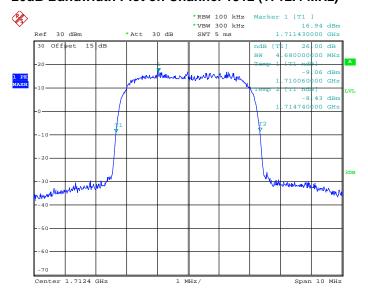
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 12.JUN.2015 21:33:10

26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



Date: 12.JUN.2015 21:31:12

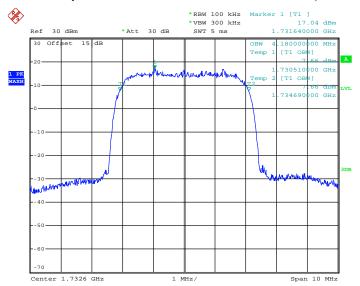
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 53 of 119 Report Issued Date : Aug. 05, 2015

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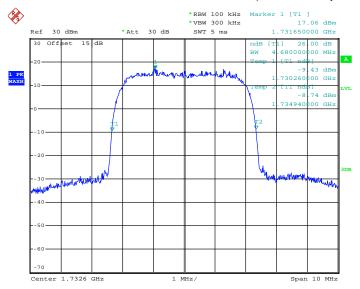
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99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)



Date: 12.JUN.2015 21:33:40

26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)



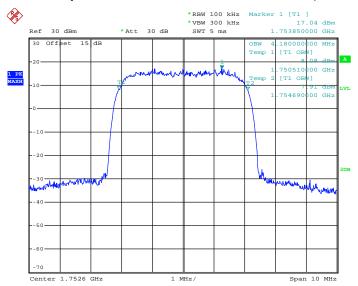
Date: 12.JUN.2015 21:31:59

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 54 of 119
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Report No.: FG560305A

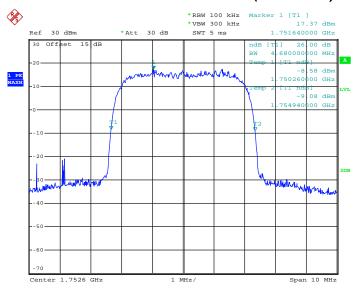
Report Version : Rev. 01

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



Date: 12.JUN.2015 21:34:37

26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)

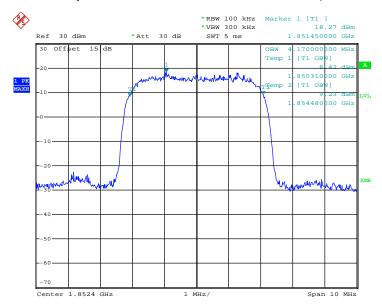


Date: 12.JUN.2015 21:32:32

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 55 of 119
Report Issued Date : Aug. 05, 2015
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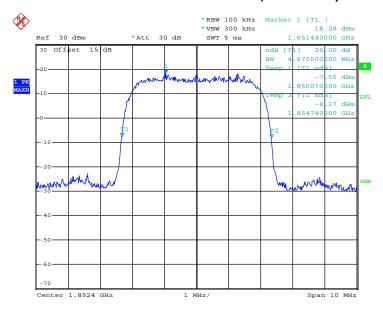
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 12.JUN.2015 21:09:25

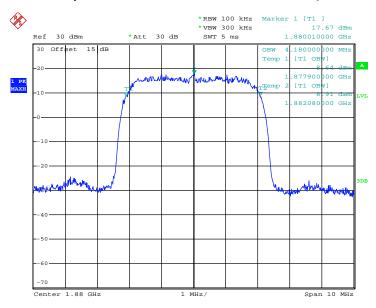
26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 12.JUN.2015 21:06:57

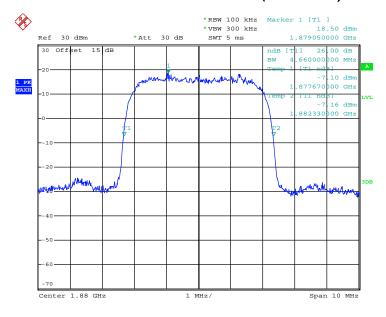
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 56 of 119
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99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 12.JUN.2015 21:10:04

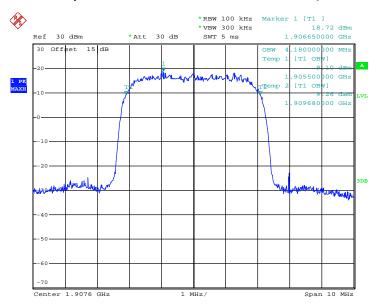
26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 12.JUN.2015 21:07:41

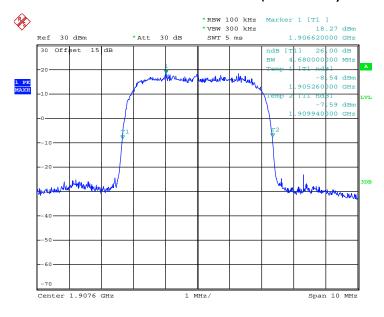
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 57 of 119
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99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 12.JUN.2015 21:11:03

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 12.JUN.2015 21:08:34

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 58 of 119
Report Issued Date : Aug. 05, 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

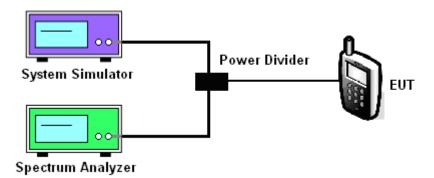
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 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.
- The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) 6.
 - = 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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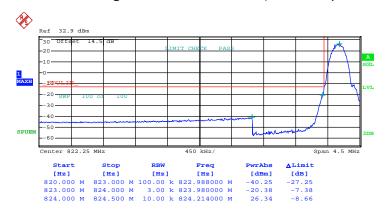
Report No.: FG560305A

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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: 12.JUN.2015 23:46:53

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 13.JUN.2015 01:50:34

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

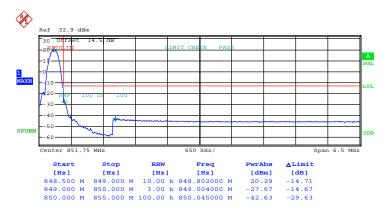
Report No.: FG560305A

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 12.JUN.2015 22:52:40

Higher Band Edge Plot on Channel 251 (848.8 MHz)



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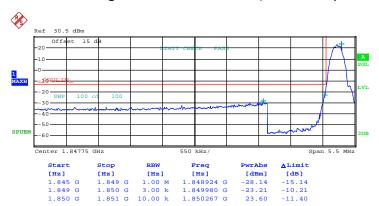
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Report Issued Date: Aug. 05, 2015

Date: 12.JUN.2015 22:56:51

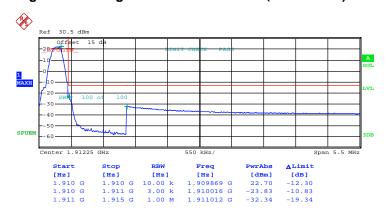
Band: GSM1900 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 12.JUN.2015 23:25:52

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



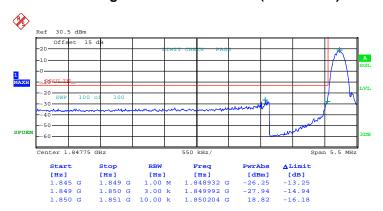
Date: 12.JUN.2015 23:30:10

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 62 of 119
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Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

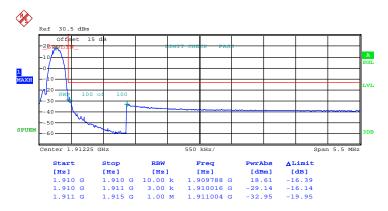
Report No.: FG560305A

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 12.JUN.2015 23:06:41

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



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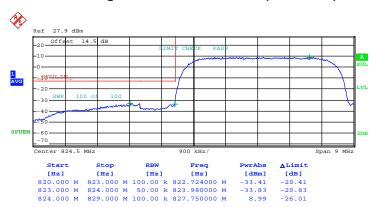
Report Issued Date: Aug. 05, 2015

Date: 12.JUN.2015 23:11:11

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

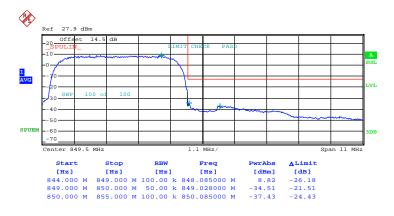
Report No.: FG560305A

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 12.JUN.2015 22:01:24

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



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Report Issued Date: Aug. 05, 2015

Date: 12.JUN.2015 22:05:22

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

Report No.: FG560305A

Lower Band Edge Plot on Channel 1312 (1712.4 MHz)



Date: 12.JUN.2015 21:39:23

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)



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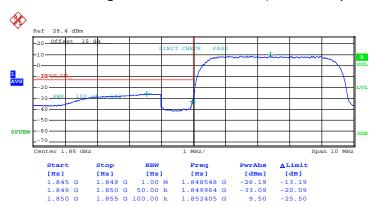
Report Issued Date: Aug. 05, 2015

Date: 12.JUN.2015 21:43:39

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

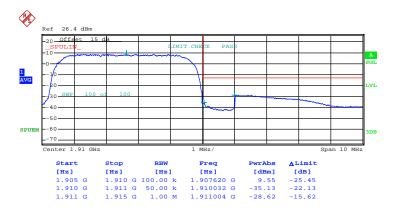
Report No.: FG560305A

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 12.JUN.2015 21:18:25

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



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Report Issued Date: Aug. 05, 2015

Date: 12.JUN.2015 21:23:14

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

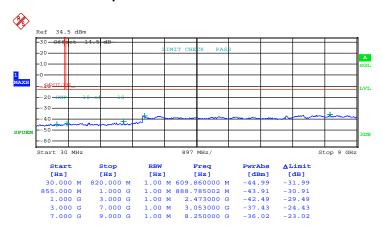


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3.6.5 Test Result (Plots) of Conducted Spurious Emission

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

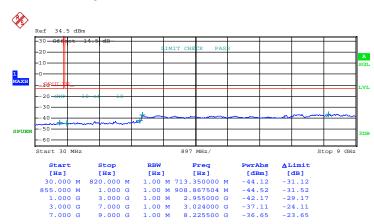
Conducted Spurious Emission Plot between 30MHz ~ 9GHz



Date: 12.JUN.2015 23:53:04

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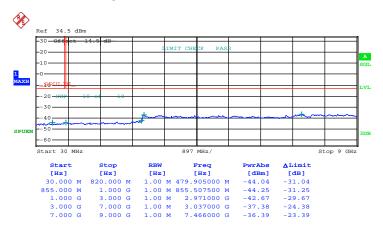
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz



Date: 12.JUN.2015 23:54:26

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Band :	GSM850	Channel:	CH 251
Test Mode :	GSM Link (GMSK)	Frequency:	848.8 MHz



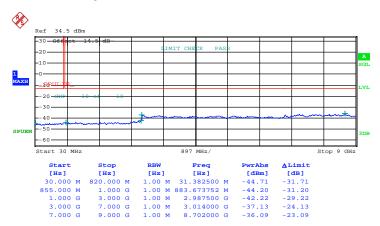
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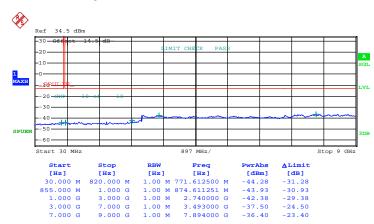
Band :	GSM850	Channel:	CH128
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	824.2 MHz



Date: 12.JUN.2015 22:42:44

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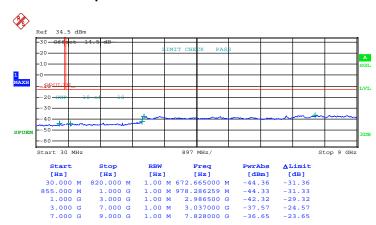
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz



Date: 12.JUN.2015 22:43:10

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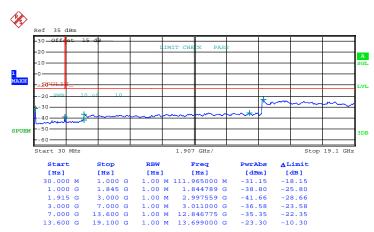
Band :	GSM850	Channel:	CH251
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	848.8 MHz



Date: 12.JUN.2015 22:43:44

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



Date: 12.JUN.2015 23:15:38

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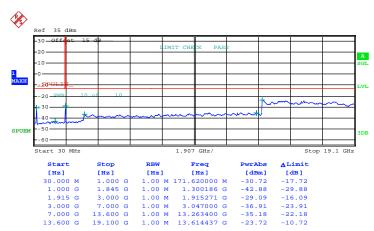
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz



Date: 12.JUN.2015 23:16:10

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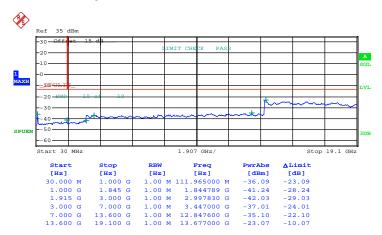
Band :	GSM1900	Channel:	CH810
Test Mode :	GSM Link (GMSK)	Frequency:	1909.8 MHz



Date: 12.JUN.2015 23:16:50

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 76 of 119
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Band :	GSM1900	Channel:	CH512
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1850.2 MHz



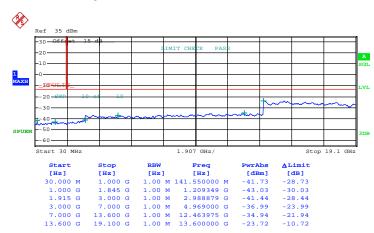
Date: 12.JUN.2015 23:12:18

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 77 of 119 Report Issued Date: Aug. 05, 2015 Report Version

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



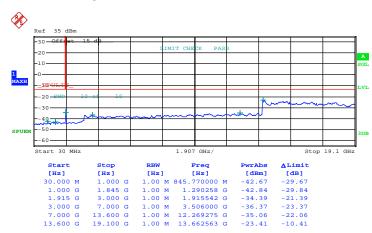
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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 78 of 119 Report Issued Date: Aug. 05, 2015

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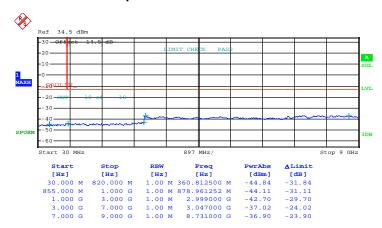
Band :	GSM1900	Channel:	CH810
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1909.8 MHz



Date: 12.JUN.2015 23:13:18

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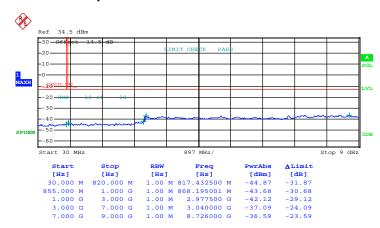
Band :	WCDMA Band V	Channel:	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	826.4 MHz



Date: 12.JUN.2015 22:08:21

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 80 of 119
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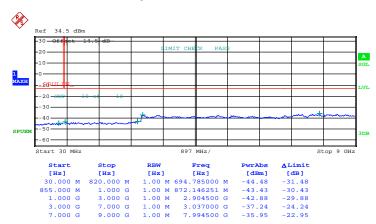
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz



Date: 12.JUN.2015 22:09:05

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



Date: 12.JUN.2015 22:10:35

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



Date: 12.JUN.2015 21:50:09

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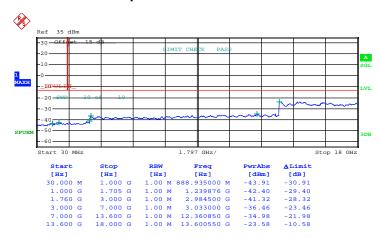
Band :	WCDMA Band IV	Channel:	CH1413
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1732.6 MHz



Date: 12.JUN.2015 21:50:51

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 84 of 119
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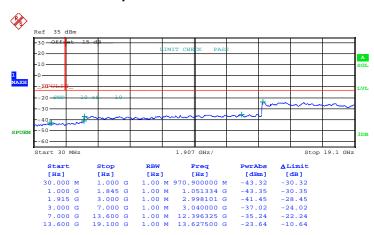
Band :	WCDMA Band IV	Channel:	CH1513
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1752.6 MHz



Date: 12.JUN.2015 21:51:27

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEXLTE Page Number : 85 of 119
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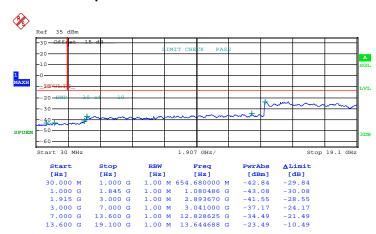
Band :	WCDMA Band II	Channel:	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1852.4MHz



Date: 12.JUN.2015 21:25:42

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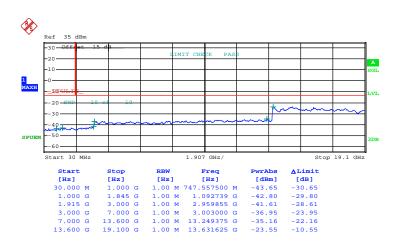
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz



Date: 12.JUN.2015 21:26:21

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



Date: 12.JUN.2015 21:27:35

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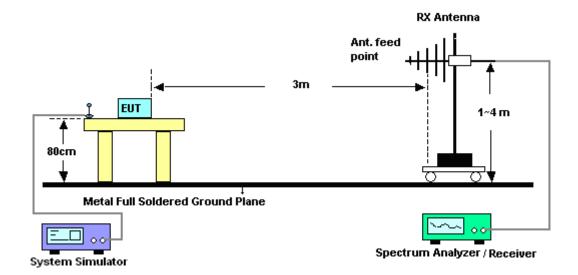
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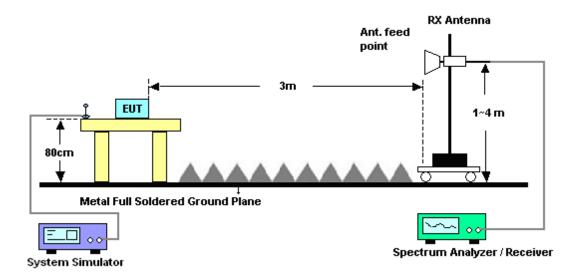
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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 :		GSM	1850 foi	r CH128			Temperature	:	23~2	5°C			
Test Mode :		GSM Link (GMSK)					Relative Hun	nidity:	48~5	48~52%			
Test Engine	er:	Sam	Li				Polarization	:	Horizontal				
Remark :		Spur	rious en	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	t line.			
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result		
				Limit	Reading	Power	loss	Ga	in				
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)			
1648.4	-47.0	61	-13	-34.61	-51.47	-51.43	0.53	6.5	0	Н	Pass		
2472.6	-52.0	07	-13	-39.07	-57.49	-54.94	0.68	5.7	0	Н	Pass		
3296.8	-54.	75	-13	-41.75	-64.77	-59.79	0.81	8.0	0	Н	Pass		

Band :		GSM850 fo	or CH128	3		Temperature	:	23~2	5°C		
Test Mode :		GSM Link	M Link (GMSK) Relative Humidity :					48~5	48~52%		
Test Engine	er:	Sam Li				Polarization	:	Vertio	cal		
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	nore tha	n 20d	it line.		
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBı	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1648.4	-48.	45 -13	-35.45	-53.11	-52.27	0.53	6.5	50	V	Pass	
2472.6	-55.3	35 -13	-42.35	-59.67	-58.22	0.68	5.7	0	V	Pass	
3296.8	-56.4	45 -13	-43.45	-65.46	-61.49	0.81	8.0	00	V	Pass	

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Band :	(GSM850 fo	r CH189			Temperature	:	23~2	5°C	
Test Mode :	(GSM Link (GMSK)			Relative Hum	nidity :	48~5	2%	
Test Engine	er:	Sam Li				Polarization		Horiz		
Remark :	Ş	Spurious emissions within 30-1000M				were found m	ore tha	n 20d	B below limi	t line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-46.3	6 -13	-33.36	-50.50	-50.18	0.53	6.5	0	Н	Pass
2510	-54.5	2 -13	-41.52	-59.94	-57.39	0.68	5.7	0	Н	Pass
3346	-55.7	2 -13	-42.72	-65.74	-60.76	0.81	8.0	0	Н	Pass

5 .		0014050 (011400					00.0	500	
Band :		GSM850 f	or CH189			Temperature	:	23~2	5°C	
Test Mode :		GSM Link	(GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Vertic	al	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found n	nore tha	n 20d	B below limi	t line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-49.9	95 -13	-36.95	-54.21	-53.77	0.53	6.5	0	V	Pass
2510	-56.1	10 -13	-43.10	-60.42	-58.97	0.68	5.7	0	V	Pass
3346	-56.7	70 -13	-43.70	-65.71	-61.74	0.81	8.0	0	V	Pass

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Band :	C	SSM850 fo	r CH251			Temperature	:	23~2	5°C	
Test Mode :	C	SSM Link (GMSK)			Relative Hum	nidity :	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Horiz		
Remark :	5	Spurious emissions within 30-1000M				were found m	ore tha	n 20d	B below limi	t 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)	
1697.6	-44.3	9 -13	-31.39	-48.55	-48.21	0.53	6.5	0	Н	Pass
2546.4	-42.1	9 -13	-29.19	-48.84	-45.06	0.68	5.7	0	Н	Pass
3395.2	-55.0	1 -13	-42.01	-65.03	-60.05	0.81	8.0	0	Н	Pass

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Band :		GSM850 fo	r CH251			Temperature	:	23~2	5°C	
Test Mode :		GSM Link (GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Vertic	al	
Remark :		Spurious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	t line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1697.6	-46.5	53 -13	-33.53	-51.75	-50.35	0.53	6.5	0	V	Pass
2546.4	-48.5	56 -13	-35.56	-54.21	-51.43	0.68	5.7	0	V	Pass
3395.2	-56.5	53 -13	-43.53	-65.54	-61.57	0.81	8.0	0	V	Pass

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Band :	(GSM850 fo	r CH128			Temperature	:	23~2	5°C		
Test Mode :	Test Mode : EDGE class			EDGE class 8 Link (8PSK) Relative Humidity :					48~52%		
Test Engine	eer :	Sam Li				Polarization		Horizontal			
Remark :	5	Spurious 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	Reading	Power	loss	Ga	n			
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
1648.4	-47.0	0 -13	-34.00	-51.07	-50.82	0.53	6.5	0	Н	Pass	
2472.6	-52.1	7 -13	-39.17	-57.59	-55.04	0.68	5.7	0	Н	Pass	
3296.8	-55.7	0 -13	-42.70	-65.72	-60.74	0.81	8.0	0	Н	Pass	

Band :	GS	SM850 fo	r CH128			Temperature	:	23~2	5°C			
Test Mode	: EC	GE class	8 Link ((8PSK)		Relative Hum	idity:	48~5	18~52%			
Test Engine	eer : Sa	m Li				Polarization :		Vertical				
Remark :	Sp	urious en	nissions	within 30-1	n 30-1000MHz were found more than 20dB		B below limit	line.				
Frequency	ERP	I imale	• • •									
	EKP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result		
,,	EKP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant Ga		Polarization	Result		
(MHz)	(dBm)					loss		'n	Polarization (H/V)	Result		
			Limit	Reading	Power	loss	Ga	in ii)		Result Pass		
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dB	in 6i) 0	(H/V)			

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Band :	(SSM850 fo	r CH189			Temperature	:	23~2	5°C	
Test Mode	: E	DGE class	8 Link ((8PSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer :	Sam Li				Polarization		Horiz	ontal	
Remark :	9	Spurious 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	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1672	-46.3	2 -13	-33.32	-50.47	-50.14	0.53	6.5	0	Н	Pass
2510	-53.9	1 -13	-40.91	-59.33	-56.78	0.68	5.7	0	Н	Pass
3346	-56.1	3 -13	-43.13	-66.15	-61.17	0.81	8.0	0	Н	Pass

Band :	G	SM850 fo	r CH189			Temperature	:	23~25	5°C	
Test Mode	: E	OGE class	8 Link	(8PSK)		Relative Hum	nidity :	48~52	2%	
Test Engine	eer : Sa	ım Li				Polarization :	:	Vertic	al	
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore thai	1 20dl	B below limit	line.
Frequency	ERP	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)	
1672	-50.31	-13	-37.31	-54.56	-54.13	0.53	6.5	0	V	Pass
2510	-55.92	-13	-42.92	-60.24	-58.79	0.68	5.7	0	V	Pass
I										

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Band :	G	SM850 fo	r CH251			Temperature	:	23~25	5°C	
Test Mode :	E	DGE class	8 Link	(8PSK)		Relative Hum	idity:	48~52	2%	
Test Engine	er: S	am Li				Polarization :		Horizo	ontal	
Remark :	s	purious er	nissions	within 30-1	1000MHz	were found m	ore tha	n 20dl	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)	
1697.6	-52.55	-13	-39.55	-55.40	-56.37	0.53	6.5	0	Н	Pass
2546.4	-46.13	-13	-33.13	-52.49	-49.00	0.68	5.7	0	Н	Pass
3395.2	-55.21	-13	-42.21	-65.23	-60.25	0.81	8.0	0	Н	Pass

Band :		GSM850 fo	r CH251			Temperature	:	23~2	5°C	
Test Mode		EDGE class	8 Link ((8PSK)		Relative Hum	idity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization :		Vertic	al	
Remark :		Spurious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1697.6	-52.2	29 -13	-39.29	-55.82	-56.11	0.53	6.5	0	V	Pass
2546.4	-52.2	23 -13	-39.23	-56.80	-55.10	0.68	5.7	0	V	Pass
3395.2	-56.7	70 -13	-43.70	-65.71	-61.74	0.81	8.0	0	V	Pass

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Band :		GSN	И1900 f	or CH51	2		Temperature	:	23~2	5°C	
Test Mode :		GSN	մ Link (ն	GMSK)			Relative Hum	nidity:	48~5	2%	
Test Engine	er:	Sam	n Li				Polarization		Horiz	ontal	
Remark :		Spu	rious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) ((dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3700.4	-47.0	68	-13	-34.68	-60.45	-54.87	0.81	8.0	0	Н	Pass
5550.6	-27.9	98	-13	-14.98	-49.81	-37.97	1.01	11.0	00	Н	Pass
7400.8	-46.0	06	-13	-33.06	-68.23	-58.30	1.46	13.	70	Н	Pass

Band :		GSM1900	for CH51	2		Temperature	:	23~2	5°C	
Test Mode :		GSM Link	(GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Verti	cal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found n	nore tha	n 20c	B below lim	it line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3700.4	-43.9	98 -13	-30.98	-57.05	-51.17	0.81	8		V	Pass
5550.6	-38.8	35 -13	-25.85	-58.21	-48.84	1.01	11		V	Pass
7400.8	-45.7	' 6 -13	-32.76	-68.25	-58.00	1.46	13	.7	V	Pass

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Band :	C	SSM1900 f	or CH66	1		Temperature	:	23~2	5°C	
Test Mode :	C	SSM Link (GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er: S	Sam Li				Polarization	:	Horiz	ontal	
Remark :	5	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t 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	Bi)	(H/V)	
3760	-44.2	4 -13	-31.24	-57.01	-51.43	0.81	8.0	0	Н	Pass
5640	-43.8	4 -13	-30.84	-62.59	-53.83	1.01	11.0	00	Н	Pass
7520	-45.8	5 -13	-32.85	-68.02	-58.09	1.46	13.	70	Н	Pass

Band :		GSM ²	1900 f	or CH66	1		Temperature	:	23~2	5°C	
Test Mode :		GSM	Link (GMSK)			Relative Hum	nidity :	48~5	2%	
Test Engine	er :	Sam I	Li				Polarization		Vertic	cal	
Remark :		Spurio	ous en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	IB below limi	it line.
Frequency	EIR	P L	imit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (c	dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-40.6	64	-13	-27.64	-53.98	-47.83	0.81	8	•	V	Pass
5640	-46.	14	-13	-33.14	-65.2	-56.13	1.01	11		V	Pass
7520	-45.3	30	-13	-32.30	-67.79	-57.54	1.46	13.	.7	V	Pass

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Band :		GSM1900	or CH81	0		Temperature	:	23~25	5°C	
Test Mode :		GSM Link (GMSK)			Relative Hun	nidity:	48~52	2%	
Test Engine	er:	Sam Li				Polarization	:	Horiz	ontal	
Remark :	;	Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below lim	it line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	n Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3819.6	-46.0	8 -13	-33.08	-58.85	-53.27	0.81	8.0	0	Н	Pass
5729.4	-37.5	4 -13	-24.54	-47.53	-47.53	1.01	11.0	00	Н	Pass
7639.2	-45.6	1 -13	-32.61	-67.78	-57.85	1.46	13.	70	Н	Pass

Band :		GSM1900	or CH81	0		Temperature	:	23~2	5°C	
Test Mode :		GSM Link (GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er :	Sam Li				Polarization	:	Vertic	cal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limi	t line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3819.6	-41.7	73 -13	-28.73	-54.84	-48.92	0.81	8		V	Pass
5729.4	-45.4	11 -13	-32.41	-64.47	-55.40	1.01	11		V	Pass
7639.2	-44.9	94 -13	-31.94	-67.43	-57.18	1.46	13	.7	V	Pass

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Band :	G	SM1900 f	or CH51	2		Temperature	:	23~2	5°C	
Test Mode :	: E	DGE class	8 Link ((8PSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer: S	am Li				Polarization		Horiz	ontal	
Remark :	s	purious 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)	
3700.4	-47.55	-13	-34.55	-60.32	-54.74	0.81	8.0	0	Н	Pass
5550.6	-49.17	-13	-36.17	-67.92	-59.16	1.01	11.0	00	Н	Pass
7400.8	-45.90	-13	-32.90	-68.07	-58.14	1.46	13.7	70	Н	Pass

Band :	G	SM1900 f	or CH51	2		Temperature	: 2	3~25°C	
Test Mode	: EI	DGE class	8 Link	(8PSK)		Relative Hum	nidity:	8~52%	
Test Engine	eer : Sa	am Li				Polarization	: \	ertical	
Remark :	Sı	ourious er	nissions	within 30-1	000MHz	were found m	ore than	20dB below limit	t line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polarization	Result
			Limit	Reading	Power	loss	Gair		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi	(H/V)	
3700.4	-45.53	-13	-32.53	-58.6	-52.72	0.81	8	V	Pass
5550.6	-48.92	-13	-35.92	-67.98	-58.91	1.01	11	V	Pass

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Band :	G	SM1900 f	or CH66	1		Temperature	:	23~2	5°C	
Test Mode	: E	DGE class	8 Link ((8PSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	eer : S	am Li				Polarization		Horiz	ontal	
Remark :	S	purious er	ous 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)	(dB	i)	(H/V)	
3760	-46.20	-13	-33.20	-58.97	-53.39	0.81	8.0	0	Н	Pass
5640	-45.63	3 -13	-32.63	-64.38	-55.62	1.01	11.0	00	Н	Pass
7520	-46.31	I -13	-33.31	-68.48	-58.55	1.46	13.7	70	Н	Pass

Band :		GSM1900 f	or CH66	1		Temperature	: 2	23~25	5°C	
Test Mode		EDGE class	8 Link ((8PSK)		Relative Hum	idity:	48~52	2%	
Test Engine	er:	Sam Li				Polarization :	: \	Vertic	al	
Remark :		Spurious en	nissions	within 30-1	000MHz	were found m	ore thar	1 20dl	B below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Power	loss	Gaiı	n		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi	i)	(H/V)	
3760	-39.8	30 -13	-26.80	-53.38	-46.99	0.81	8		V	Pass
5640	-47.3	30 -13	-34.30	-66.36	-57.29	1.01	11		V	Pass
7520	-45.6	62 -13	-32.62	-68.11	-57.86	1.46	13.7	7	V	Pass

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Band :	G	SM1900 f	or CH81	0		Temperature	:	23~25	5°C	
Test Mode :	E	DGE class	8 Link (8PSK)		Relative Hum	nidity:	48~52	2%	
Test Engine	eer : S	Sam Li				Polarization :		Horizo	ontal	
Remark :	S	purious er	rious 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)	
3819.6	-45.98	3 -13	-32.98	-58.75	-53.17	0.81	8.0	0	Н	Pass
5729.4	-46.73	-13	-33.73	-65.48	-56.72	1.01	11.0	00	Н	Pass
7639.2	-46.09	-13	-33.09	-68.26	-58.33	1.46	13.7	70	Н	Pass

Band :		GSM1900 f	or CH81	0		Temperature	: 2	23~2	5°C	
Test Mode		EDGE class	8 Link ((8PSK)		Relative Hum	idity:	48~52	2%	
Test Engine	er:	Sam Li				Polarization :	;	Vertic	al	
Remark :	,	Spurious en	nissions	within 30-1	000MHz	were found m	ore thar	1 20d	B below limit	line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi	i)	(H/V)	
3819.6	-42.6	8 -13	-29.68	-55.75	-49.87	0.81	8		V	Pass
5729.4	-47.0	1 -13	-34.01	-66.07	-57.00	1.01	11		V	Pass
7639.2	-46.0	2 -13	-33.02	-68.51	-58.26	1.46	13.7	7	V	Pass

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Band :		WCE	DMA Ba	nd V for	CH4132		Temperature	:	23~2	5°C	
Test Mode :		RMC	2 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	er:	Sam	Li				Polarization :		Horiz	ontal	
Remark :		Spur	rious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBı	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1652.8	-57.	58	-13	-44.58	-60.13	-61.40	0.53	6.5	0	Н	Pass
2479.2	-57.3	36	-13	-44.36	-62.78	-60.23	0.68	5.7	0	Н	Pass
3305.6	-54.0	69	-13	-41.69	-64.71	-59.73	0.81	8.0	0	Н	Pass

Band :	\	NCDMA Ba	and V for	· CH4132		Temperature	:	23~2	5°C	
Test Mode :	F	RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Vertic	cal	
Remark :	8	Spurious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below lim	it line.
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		in	Polarization (H/V)	n Result
		n) (dBm)	Limit	Reading	Power	loss	Ga	in Bi)		Pass
(MHz)	(dBm	n) (dBm) 5 -13	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE	in Bi) 0	(H/V)	

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Band :	\	NCDMA B	and V for	· CH4182		Temperature	:	23~2	5°C	
Test Mode :	F	RMC 12.2k	(bps Link	(QPSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Horiz	ontal	
Remark :	Ş	Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limi	it line.
Frequency	ERF	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	Bi)	(H/V)	
1672	-57.9	3 -13	-44.93	-60.48	-61.75	0.53	6.5	0	Н	Pass
2510	-57.9	2 -13	-44.92	-63.34	-60.79	0.68	5.7	0	Н	Pass
3346	-55.7	9 -13	-42.79	-65.81	-60.83	0.81	8.0	0	Н	Pass

Band :		WCDMA B	and V for	CH4182		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hun	nidity :	48~5	2%	
Test Engine	er :	Sam Li				Polarization		Vertic	cal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-56.8	38 -13	-43.88	-59.79	-60.70	0.53	6.5	60	V	Pass
2510	-59.1	18 -13	-46.18	-63.50	-62.05	0.68	5.7	0	V	Pass
3346	-56.6	61 -13	-43.61	-65.62	-61.65	0.81	8.0	0	V	Pass

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Band :	٧	VCDMA Ba	and V for	· CH4233		Temperature	:	23~2	5°C	
Test Mode :	F	RMC 12.2K	lbps Link	(QPSK)		Relative Hum	nidity:	48~52	2%	
Test Engine	er:	Sam Li				Polarization		Horiz	ontal	
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below lim	it 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	-53.3	9 -13	-40.39	-56.01	-57.21	0.53	6.5	0	Н	Pass
2539.8	-58.2	5 -13	-45.25	-63.67	-61.12	0.68	5.7	0	Н	Pass
3386.4	-54.6	5 -13	-41.65	-64.67	-59.69	0.81	8.0	0	Н	Pass

Band :		WCDMA B	and V for	CH4233		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2	Kbps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Vertic	al	
Remark:		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBı	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1693.2	-57.	04 -13	-44.04	-59.95	-60.86	0.53	6.5	0	V	Pass
1693.2 2539.8	-57. -58.	• • • • •	-44.04 -45.54	-59.95 -62.86	-60.86 -61.41	0.53 0.68	6.5 5.7	-	V V	Pass Pass

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Band :		WCDMA B	and IV fo	r CH1312		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	er:	Sam Li				Polarization		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limi	t line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3424.8	-51.2	27 -13	-38.27	-64.10	-58.46	0.81	8.0	0	Н	Pass
5137.2	-49.	13 -13	-36.13	-67.66	-58.18	0.95	10.	00	Н	Pass
6849.6	-46.3	35 -13	-33.35	-67.69	-58.62	1.13	13.	40	Н	Pass

Band :		WC	DMA Ba	and IV fo	r CH1312		Temperature	:	23~2	5°C	
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sar	m Li				Polarization		Vertio	cal	
Remark :		Spı	urious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limi	it line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBı	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3424.8	-51.	14	-13	-38.14	-64.48	-62.93	0.81	12	6	V	Pass
5137.2	-49.3	33	-13	-36.33	-67.96	-61.08	0.95	12	7	V	Pass
6849.6	-46.8	80	-13	-33.80	-67.79	-57.37	1.13	11.	7	V	Pass

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Band :	V	/CDMA Ba	and IV fo	r CH1413		Temperature	:	23~2	5°C	
Test Mode :	R	MC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Enginee	er: S	Sam Li Polarization :					:	Horiz	ontal	
Remark :	s	purious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	it 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	-51.06	-13	-38.06	-63.89	-58.25	0.81	8.0	0	Н	Pass
5197.5	-49.20	-13	-36.20	-67.73	-58.25	0.95	10.0	00	Н	Pass
6930	-46.71	-13	-33.71	-68.05	-58.98	1.13	13.4	40	Н	Pass

Band :	\ \	VCDMA Ba	and IV fo	r CH1413		Temperature	:	23~25°C		
Test Mode :	F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity:	48~52%		
Test Engine	er:	Sam Li				Polarization		Vertic	al	
Remark :	5	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below lim	it line.
Frequency	EIRF	Limit	Over	SPA	0.0	- .				
		LIIIII	Ovei	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	n Result
		Lilling	Limit	Reading	S.G. Power	l X Cable loss	TX Ant Ga		Polarization	n Result
(MHz)	(dBm					loss		in	Polarization (H/V)	n Result
(MHz) 3465) (dBm)	Limit	Reading	Power	loss	Ga	in Bi)		Pass
_ ` ,	(dBm) (dBm) 1 -13	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE	in Bi) 6	(H/V)	

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Band :	V	/CDMA Ba	and IV fo	r CH1513		Temperature	:	23~2	5°C	
Test Mode :	R	MC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Enginee	er: S	Sam Li Polarization :					:	Horiz	ontal	
Remark :	s	purious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	it 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)	
3505.2	-50.77	' -13	-37.77	-63.60	-57.96	0.81	8.0	0	Н	Pass
5257.8	-49.46	-13	-36.46	-67.99	-58.51	0.95	10.0	00	Н	Pass
7010.4	-46.90	-13	-33.90	-68.24	-59.17	1.13	13.4	10	Н	Pass

Band :	,	WCDMA Ba	and IV fo	r CH1513		Temperature	:	23~25°C		
Test Mode :		RMC 12.2K	lbps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er:	Sam Li				Polarization	:	Vertic	al	
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3505.2	-51.8	8 -13	-38.88	-65.22	-63.67	0.81	12	.6	V	Pass
5257.8	-48.3	37 -13	-35.37	-67.69	-60.12	0.95	12	.7	V	Pass
7010.4	-46.6	9 -13	-33.69	-67.68	-57.26	1.13	11.	7	V	Pass

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Band :		WCD	МА Ва	nd II for	CH9296		Temperature	:	23~25°C		
Test Mode :		RMC	12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~52%		
Test Engine	er:	Sam Li Polari					Polarization		Horiz	ontal	
Remark :		Spuri	ious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIR	Pι	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)	
3704.8	-51.	12	-13	-38.12	-63.89	-58.31	0.81	8.0	0	Н	Pass
5557.2	-41.8	38	-13	-28.88	-60.63	-51.87	1.01	11.0	00	Н	Pass
7409.6	-44.9	99	-13	-31.99	-67.16	-57.23	1.46	13.	70	Н	Pass

Band :	V	VCDMA Ba	and II for	CH9296		Temperature	:	23~2	5°C	
Test Mode :	R	MC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er: S	: Sam Li				Polarization	Vertic	cal		
Remark :	S	purious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t 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	-49.19	9 -13	-36.19	-62.26	-56.38	0.81	8		V	Pass
5557.2	-46.44	-13	-33.44	-65.5	-56.43	1.01	11		V	Pass
7409.6	-45.42	2 -13	-32.42	-67.91	-57.66	1.46	13.	7	V	Pass

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Band :	,	WCDMA B	and II for	CH9400		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2	Kbps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er:	Sam Li				Polarization	Horiz	ontal		
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	IB below lim	it line.
Frequency	EIRI	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	Bi)	(H/V)	
3760	-49.7	'0 -13	-36.70	-62.47	-56.89	0.81	8.0	0	Н	Pass
5640	-43.8	32 -13	-30.82	-62.57	-53.81	1.01	11.0	00	Н	Pass
7520	-46.3	31 -13	-33.31	-68.48	-58.55	1.46	13.	70	Н	Pass

Band :		WC	DMA Ba	ınd II for	CH9400		Temperature	:	23~25°C		
Test Mode :		RM	C 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	48~52%		
Test Engine	er:	Sam Li					Polarization : Vertical			cal	
Remark:		Spı	ırious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below lim	it line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dB	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-47.	36	-13	-34.36	-60.43	-54.55	0.81	8		V	Pass
5640	-43.	45	-13	-30.45	-62.51	-53.44	1.01	11		V	Pass
7520	-45.	49	-13	-32.49	-67.98	-57.73	1.46	13	7	V	Pass

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Band :		WC	DMA Ba	ınd II for	CH9538		Temperature	:	23~25°C		
Test Mode :		RM	C 12.2K	bps Link	(QPSK)		Relative Hum	nidity:	48~52%		
Test Engine	er:	Sam Li Polarization :						:	Horizontal		
Remark :		Spu	ırious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3815.2	-49.4	49	-13	-36.49	-62.26	-56.68	0.81	8.0	0	Н	Pass
5722.8	-42.2	27	-13	-29.27	-61.02	-52.26	1.01	11.0	00	Н	Pass
7630.4	-46.0	00	-13	-33.00	-68.17	-58.24	1.46	13.	70	Н	Pass

Band :		WCDMA E	Band II for	· CH9538		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2	Kbps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er :	Sam Li				Polarization	:	Vertic	cal	
Remark :		Spurious	emissions	within 30-1	1000MHz	were found m	nore tha	n 20d	B below limi	t line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm) (dB)	(dBm)	(dBm)	(dB)	(dE	3i)	(H/V)	
3815.2	-47.6	67 -13	-34.67	-60.74	-54.86	0.81	8		V	Pass
5722.8	-42.7	74 -13	-29.74	-61.8	-52.73	1.01	11	1	V	Pass
7630.4	-45.	17 -13	-32.17	-67.66	-57.41	1.46	13.	.7	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 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

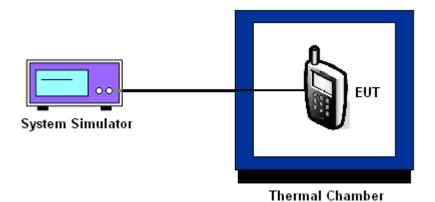
- 1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- The power supply voltage to the EUT was varied from BEP to 115% of the nominal value 3. measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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3.8.5 Test Setup



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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	0.0072	0.0096	
40	0.0048	0.0072	
30	0.0024	0.0036	
20(Ref.)	0.0000	0.0000	
10	0.0012	0.0024	PASS
0	0.0036	0.0072	
-10	0.0060	0.0120	
-20	0.0096	0.0155	
-30	0.0120	0.0179	

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	0.0053	0.0032	
40	0.0032	0.0016	
30	0.0011	0.0005	
20(Ref.)	0.0000	0.0000	
10	0.0016	0.0011	PASS
0	0.0037	0.0016	
-10	0.0059	0.0027	
-20	0.0074	0.0043	
-30	0.0090	0.0053	

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

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

_ ,	RMC 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0036	
40	0.0024	
30	0.0012	
20(Ref.)	0.0000	
10	0.0012	PASS
0	0.0072	
-10	0.0084	
-20	0.0096	
-30	0.0108	

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

	RMC 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0023	
40	0.0012	
30	0.0006	
20(Ref.)	0.0000	
10	0.0006	PASS
0	0.0012	
-10	0.0052	
-20	0.0058	
-30	0.0063	

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

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

- ,	RMC 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0021	
40	0.0011	
30	0.0005	
20(Ref.)	0.0000	
10	0.0005	PASS
0	0.0053	
-10	0.0059	
-20	0.0064	
-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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3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
		4.2	0.0012		
	GSM	3.8	0.0000		
GSM 850		BEP	0.0000	2.5	
CH189	ED0E	4.2	0.0012	2.5	
	EDGE class 8	3.8	0.0000		
	01433 0	BEP	0.0012		
		4.2	0.0016		
	GSM	3.8	0.0000		PASS
GSM 1900		BEP	0.0005	(Note 3.)	
CH661	EDGE class 8	4.2	0.0011		
		3.8	0.0000		
	01033 0	BEP	0.0011		
14/0DMA D 11/	5110	4.2	0.0012		
WCDMA Band V CH4182	RMC 12.2Kbps	3.8	0.0000	2.5	
CH4102	12.21000	BEP	0.0000		
			0.0006		
WCDMA Band IV CH1413	12.2Kbps	3.8	0.0000	(Note 3.)	
		BEP	0.0000		
		4.2	0.0005		
WCDMA Band II CH9400	RMC 12.2Kbps	3.8	0.0000	(Note 3.)	
CI 13400	12.21000	BEP	0.0000		

Note:

- 1. Normal Voltage = 3.8V.
- 2. Battery End Point (BEP) = 3.7 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	Jun. 12, 2015~ Jun. 16, 2015	May 04, 2016	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Jun. 12, 2015~ Jun. 16, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion	LP-150U	H2014081803	-40~+150°C	Sep. 16, 2014	Jun. 12, 2015~ Jun. 16, 2015	Sep. 15, 2015	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz; Max 30dBm	Oct. 14, 2014	Jun. 15, 2015	Oct. 13, 2015	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Oct. 15, 2014	Jun. 15, 2015	Oct. 14, 2015	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Jun. 15, 2015	Nov. 06, 2015	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 20, 2015	Jun. 15, 2015	Jan. 19, 2016	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Jun. 15, 2015	Sep. 03, 2015	Radiation (03CH02-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Jun. 15, 2015	Jan. 27, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 29, 2014	Jun. 15, 2015	Oct. 28, 2015	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Jun. 15, 2015	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jun. 15, 2015	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jun. 15, 2015	NCR	Radiation (03CH02-SZ)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	4.5dB
Confidence of 95% (U = 2Uc(y))	4.3uB

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