FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Smart Phone

BRAND NAME : BLU

MODEL NAME : VIVO LTE

FCC ID : YHLBLUVIVOLTE

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 Mar. 10, 2015 and testing was completed on Apr. 25, 2015. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 1 of 159
Report Issued Date : May 11, 2015

Testing Laboratory 2627

Report No.: FG531001A

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	JMMA	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification subjective to this standard	6
	1.5	Modification of EUT	
	1.6	Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	
	1.7	Testing Location	
	1.8	Applicable Standards	8
2	TES	CONFIGURATION OF EQUIPMENT UNDER TEST	9
	2.1	Test Mode	9
	2.2	Connection Diagram of Test System	11
	2.3	Support Unit used in test configuration	
	2.4	Measurement Results Explanation Example	12
3	TES	「RESULT	13
	3.1	Conducted Output Power Measurement	13
	3.2	Peak-to-Average Ratio	15
	3.3	Effective Radiated Power and Effective Isotropic Radiated Power Measurement	31
	3.4	99% Occupied Bandwidth and 26dB Bandwidth Measurement	
	3.5	Band Edge Measurement	
	3.6	Conducted Spurious Emission Measurement	
	3.7	Field Strength of Spurious Radiation Measurement	
	3.8	Frequency Stability Measurement	152
4	LIST	OF MEASURING EQUIPMENT	158
5	UNC	ERTAINTY OF EVALUATION	159

APPENDIX A. SETUP PHOTOGRAPHS

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 2 of 159 Report Issued Date: May 11, 2015 Report Version

: Rev. 01

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG531001A	Rev. 01	Initial issue of report	May 11, 2015

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 3 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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 (6.4)	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d)	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4)	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 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.4	\$2.1049 \$22.917(b) \$24.238(b) \$27.53(g)	RSS-GEN(6.6) RSS-133(6.5) RSS-139 (6.5)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.5)	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 (6.5)	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 (6.5) Field Strength of Spurious Radiation < 43+10log10(P['		< 43+10log10(P[Watts])	PASS	Under limit 22.11 dB at 2544.000 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 (6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-

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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 4 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

1 General Description

1.1 Applicant

CT Asia

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

1.2 Manufacturer

Longcheer Technology (Shanghai) Co., Ltd.

Building 1, No.401, Caobao Rd., Xuhui District, Shanghai, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Smart Phone					
Brand Name	BLU					
Model Name	VIVO LTE					
FCC ID	YHLBLUVIVOLTE					
	GSM/GPRS/EGPRS/WCDMA/HSPA/					
EUT supports Radios application	HSPA+(Downlink Only)/DC-HSDPA/LTE					
Eo i supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20					
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE					
HW Version	60					
SW Version	BLU_V010Q_V04_GENERIC_150210_03:08					
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.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 5 of 159
Report Issued Date : May 11, 2015

Report No.: FG531001A

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						
Maximum Output Power to Antenna	GSM850 : 32.74 dBm GSM1900 : 30.20 dBm WCDMA Band V : 23.62 dBm WCDMA Band IV : 23.26 dBm WCDMA Band II : 23.55 dBm						
Antenna Type	Monopole Antenna						
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA / DC-HSDAP: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only) DC-HSDAP: 64QAM						

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 6 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

1.5 Modification of EUT

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

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GPRS class 8	GMSK	0.4634	0.0120 ppm	248KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1371	0.0418 ppm	246KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0668	0.0395 ppm	4M16F9W
Part 24	GSM1900 GPRS class 8	GMSK	0.7261	0.0229 ppm	244KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.3273	0.0149 ppm	246KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2249	0.0229 ppm	4M16F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1374	0.0225 ppm	4M16F9W

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Test Site No.	Sporton Site No.					
rest Site No.	TH01-KS					

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Took Site I continu	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.				
Test Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Test Site No.	Sporton Site No.	FCC/IC Registration No.			
lest Site No.	03CH10-HY	TW1022/4086B-1			

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 7 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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 2
- IC RSS-Gen Issue 4

Remark:

- All test items were verified and recorded according to the standards and without any deviation 1. 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.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 8 of 159 Report Issued Date: May 11, 2015

Report No.: FG531001A

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	■ GPRS class 8 Link	■ GPRS class 8 Link							
GSINI 650	■ EDGE class 8 Link	■ EDGE class 8 Link							
GSM 1900	■ GPRS class 8 Link	■ GPRS class 8 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.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 9 of 159 Report Issued Date: May 11, 2015

Report No.: FG531001A

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 (GMSK, 1 Tx slot)	32.70	32.66	32.62	30.08	30.18	29.99		
GPRS (GMSK, 1 Tx slot)	<mark>32.74</mark>	32.69	32.64	30.09	<mark>30.20</mark>	30.02		
GPRS (GMSK, 2 Tx slots)	31.56	31.52	31.46	29.00	28.87	28.74		
GPRS (GMSK, 3 Tx slots)	30.06	30.03	30.01	27.66	27.63	27.58		
GPRS (GMSK, 4 Tx slots)	28.60	28.54	28.53	26.49	26.48	26.45		
EDGE (8PSK, 1 Tx slot)	26.87	26.80	26.79	26.26	26.24	26.31		
EDGE (8PSK, 2 Tx slots)	26.73	26.71	26.67	26.21	26.22	26.24		
EDGE (8PSK, 3 Tx slots)	26.64	26.55	26.54	26.13	26.12	26.11		
EDGE (8PSK, 4 Tx slots)	25.48	25.45	25.43	25.00	24.95	24.99		

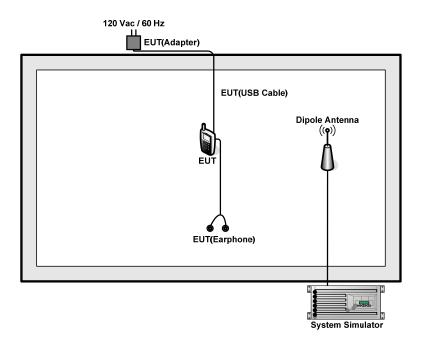
Conducted Power (*Unit: dBm)										
Band	Band WCDMA Band			d V WCDMA Band II				WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
AMR 12.2K	23.19	23.24	23.60	23.47	23.49	23.53	23.24	23.00	23.17	
RMC 12.2K	23.21	23.25	23.62	23.49	23.51	23.55	23.26	23.01	23.20	
HSDPA Subtest-1	22.17	22.24	22.52	22.54	22.60	22.62	22.30	22.03	22.18	
HSDPA Subtest-2	22.14	22.20	22.50	22.51	22.57	22.60	22.27	22.00	22.16	
HSDPA Subtest-3	21.68	21.72	22.00	21.98	22.10	22.13	21.80	21.52	21.73	
HSDPA Subtest-4	21.65	21.69	21.96	21.95	22.07	22.11	21.77	21.50	21.71	
DC-HSDPA Subtest-1	22.11	22.20	22.45	22.48	22.55	22.59	22.25	21.95	22.14	
DC-HSDPA Subtest-2	22.08	22.19	22.43	22.47	22.53	22.57	22.23	22.03	22.12	
DC-HSDPA Subtest-3	21.60	21.70	21.95	21.95	22.07	22.10	21.73	21.51	21.62	
DC-HSDPA Subtest-4	21.59	21.65	21.91	21.94	22.06	22.09	21.71	21.50	21.58	
HSUPA Subtest-1	22.00	22.15	22.60	22.55	22.46	22.23	22.10	22.03	22.06	
HSUPA Subtest-2	21.03	21.16	21.55	21.50	21.40	21.56	21.12	21.00	21.08	
HSUPA Subtest-3	21.00	21.07	21.29	21.04	21.10	21.20	21.19	21.05	21.10	
HSUPA Subtest-4	21.42	21.61	21.82	21.57	21.58	21.92	21.50	21.32	21.44	
HSUPA Subtest-5	22.18	22.25	22.65	22.50	22.65	22.68	22.38	22.01	22.13	

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 10 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

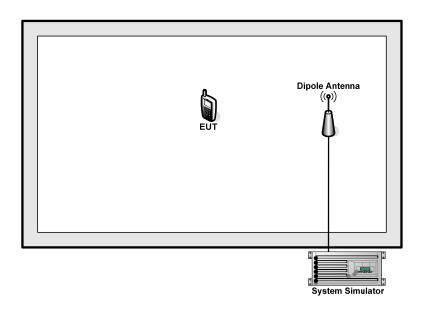
port Report No. : FG531001A

2.2 Connection Diagram of Test System

For 22H/27L



For 24E



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 11 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	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 5.2dB and a 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$5.2 + 10 = 15.2$$
 (dB)

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

: 12 of 159 Page Number Report Issued Date: May 11, 2015

Report No.: FG531001A

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.

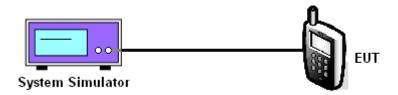
3.1.2 Measuring Instruments

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



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 13 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.1.5 Test Result of Conducted Output Power

	Cellular Band								
Modes	GSM850 (GPRS class 8)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 189 251 (Low) (Mid) (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)	32.74	32.69	32.64	26.87	26.80	26.79	23.21	23.25	23.62

	PCS Band								
Modes	GSM1900 (GPRS class 8)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)				661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	30.09	30.20	30.02	26.26	26.24	26.31	23.49	23.51	23.55

	AWS Band							
Modes		WCDMA Band IV (RMC 12.2Kbps)						
Channel	1312 (Low)							
Frequency (MHz)	1712.4	1732.6	1752.6					
Conducted Power (dBm)	23.26	23.01	23.20					

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 14 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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.

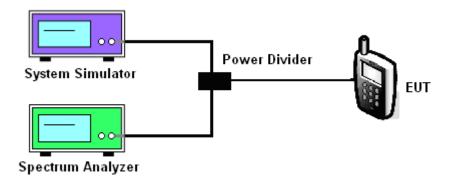
3.2.2 Measuring Instruments

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



SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 15 of 159

Report Issued Date : May 11, 2015

Report No.: FG531001A

3.2.5 Test Result of Peak-to-Average Ratio

	Cellular Band								
Modes	GSM850 (GPRS class 8)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (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)	0.39	0.38	0.37	2.91	2.88	2.88	2.96	3.12	3.04

	PCS Band								
Modes	GSM1900 (GPRS class 8)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (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)	0.30	0.29	0.30	2.85	2.81	2.87	3.00	3.12	2.92

	AWS Band						
Modes	WCDMA Band IV (RMC 12.2Kbps)						
Channel	1312 1413 1513						
Frequency (MHz)	1712.4	(Low) (Mid) (High) 1712.4 1732.6 1752.6					
Peak-to-Average Ratio (dB)	2.76	3.12	2.80				

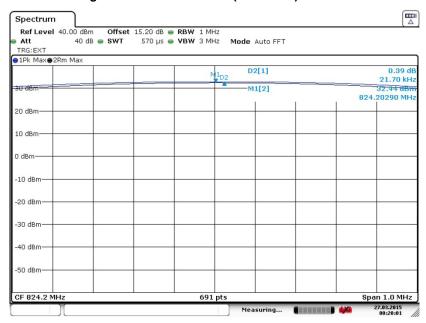
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 16 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

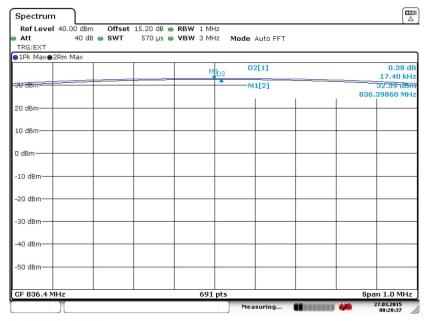
Band :	GSM 850	Test Mode :	GPRS class 8 Link (GMSK)
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Peak-to-Average Ratio on Channel 128 (824.2 MHz)



Date: 27.MAR.2015 00:20:01

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



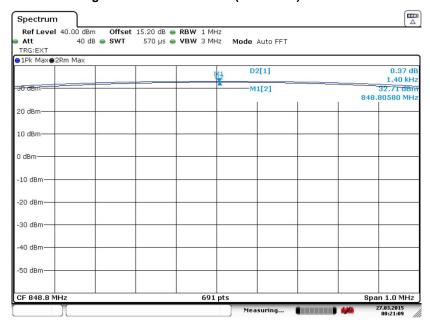
Date: 27.MAR.2015 00:20:37

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 17 of 159 Report Issued Date: May 11, 2015

Report No.: FG531001A

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

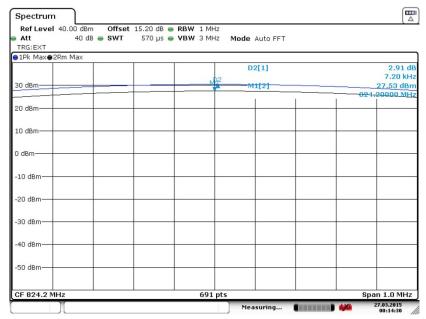


Date: 27.MAR.2015 00:21:09

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 18 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

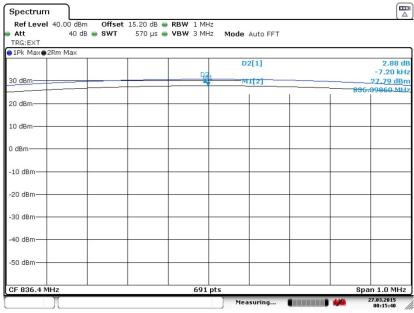
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 27.MAR.2015 00:14:30

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



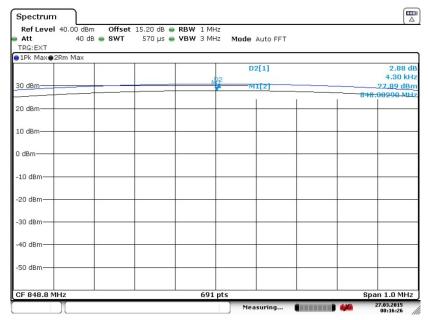
Date: 27.MAR.2015 00:15:39

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 19 of 159
Report Issued Date : May 11, 2015

Report No.: FG531001A

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

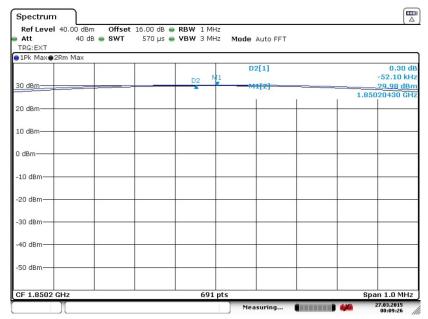


Date: 27.MAR.2015 00:16:26

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 20 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

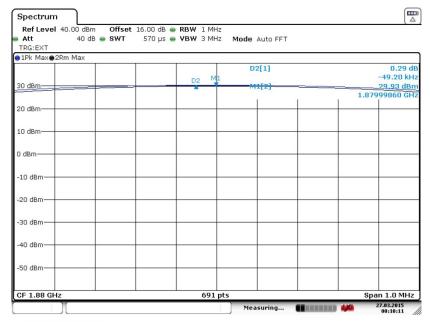
Band: GSM 1900 Test Mode: GPRS class 8 Link (GMSK)

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



Date: 27.MAR.2015 00:09:27

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



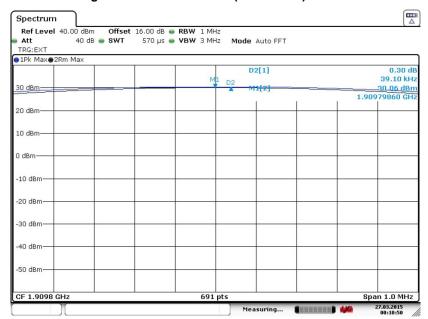
Date: 27.MAR.2015 00:10:11

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 21 of 159
Report Issued Date : May 11, 2015

Report No.: FG531001A

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

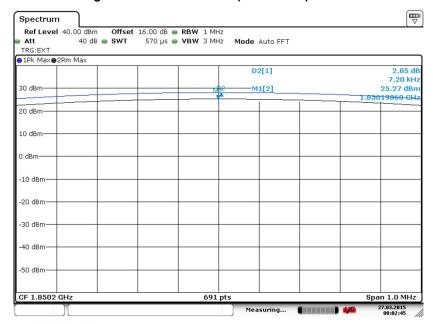


Date: 27.MAR.2015 00:10:50

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 22 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

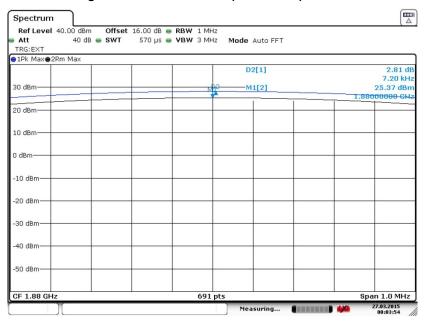
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 27.MAR.2015 00:02:45

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



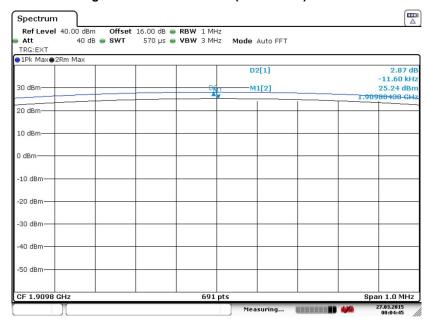
Date: 27.MAR.2015 00:03:54

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 23 of 159
Report Issued Date : May 11, 2015

Report No.: FG531001A

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

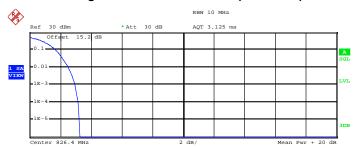


Date: 27.MAR.2015 00:04:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 24 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

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



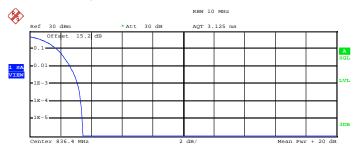
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 23.69 dBm
Peak 26.96 dBm
Crest 3.27 dB

10 % 1.68 dB
1 % 2.52 dB
.1 % 2.96 dB
.01 % 3.16 dB

Date: 26.MAR.2015 21:44:03

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



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

Mean 23.59 dBm
Peak 27.03 dBm
Crest 3.44 dB

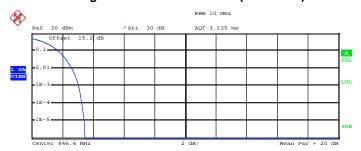
10 % 1.76 dB
1 % 2.64 dB
.1 % 3.12 dB
.01 % 3.32 dB

Date: 26.MAR.2015 21:44:55

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 25 of 159
Report Issued Date : May 11, 2015

Report Version : Rev. 01

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



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

Trace 1
Mean 23.65 dBm
Peak 27.10 dBm
Crest 3.46 dB

10 % 1.72 dB
1 % 2.60 dB

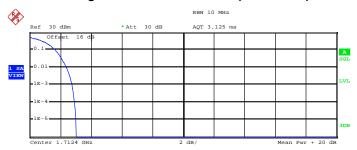
1 % 2.60 dB .1 % 3.04 dB .01 % 3.28 dB

Date: 26.MAR.2015 21:45:34

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 26 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

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



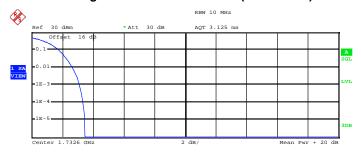
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 23.31 dBm
Peak 26.33 dBm
Crest 3.02 dB

10 % 1.68 dB
1 % 2.40 dB
.1 % 2.76 dB
.01 % 2.92 dB

Date: 26.MAR.2015 22:36:17

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



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

Mean 22.93 dBm
Peak 26.40 dBm
Crest 3.47 dB

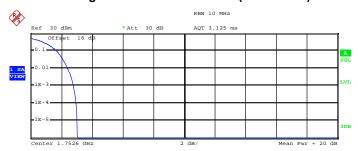
10 % 1.76 dB
1 % 2.64 dB
.1 % 3.12 dB
.01 % 3.32 dB

Date: 26.MAR.2015 22:37:13

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 27 of 159
Report Issued Date : May 11, 2015

Report No.: FG531001A

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



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

Trace 1
Mean 23.50 dBm
Peak 26.54 dBm
Crest 3.04 dB

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

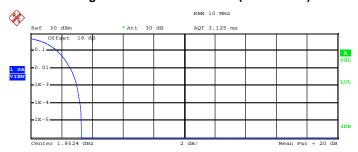
.1 % 2.80 dB .01 % 2.96 dB

Date: 26.MAR.2015 22:34:22

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 28 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

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

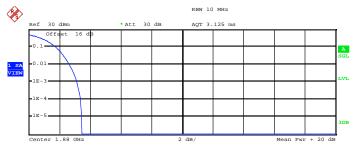


Mean 23.23 dBm
Peak 26.54 dBm
Crest 3.31 dB

10 % 1.72 dB
1 % 2.60 dB
.1 % 3.00 dB
.01 % 3.20 dB

Date: 26.MAR.2015 21:49:41

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



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

Mean 23.35 dBm
Peak 26.82 dBm
Crest 3.47 dB

10 % 1.76 dB
1 % 2.64 dB
.1 % 3.12 dB
.01 % 3.36 dB

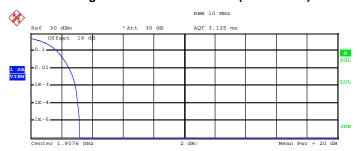
Date: 26.MAR.2015 21:50:26

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 29 of 159 Report Issued Date : May 11, 2015

Report No.: FG531001A

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



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

23.77 dBm Peak 26.96 dBm Crest 3.20 dB 10 % 1.72 dB

1 % .1 % 2.48 dB 2.92 dB .01 % 3.08 dB

Date: 26.MAR.2015 21:51:04

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 30 of 159 Report Issued Date: May 11, 2015

Report No.: FG531001A

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.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 31 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

	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

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 32 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.3.4 Test Result of ERP

	GSM850 (GPRS class 8) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical				
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)			
Lowest	824.2	25.78	0.3784	19.29	0.0849			
Middle	836.4	26.30	0.4266	20.14	0.1033			
Highest	848.8	26.66	0.4634	21.05	0.1274			
Limit	ERP < 7W	Res	sult	PA	SS			

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	20.18	0.1042	14.19	0.0262	
Middle	836.4	20.72	0.1180	15.64	0.0366	
Highest	848.8	21.37 0.1371 17.15 0.05				
Limit	ERP < 7W	Re	sult	PA	SS	

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	826.4	17.90	0.0617	11.32	0.0136		
Middle	836.4	18.25	0.0668	12.31	0.0170		
Highest	846.6	18.25	0.0668	12.00	0.0158		
Limit	ERP < 7W	Res	sult	PA	SS		

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 33 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.3.5 Test Result of EIRP

	GSM1900 (GPRS class 8) Radiated Power EIRP							
Channel	Frequency	Horiz	ontal	Vertical				
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)			
Lowest	1850.2	28.61	0.7261	23.18	0.2080			
Middle	1880.0	28.39	0.6902	22.95	0.1972			
Highest	1909.8	28.48	0.7047	23.46	0.2218			
Limit	EIRP < 2W	Res	sult	PA	SS			

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	24.61	0.2891	19.12	0.0817		
Middle	1880.0	24.95	0.3126	19.61	0.0914		
Highest	1909.8	25.15	0.3273	19.84	0.0964		
Limit	EIRP < 2W	Result		PASS			

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)		
Lowest	1852.4	22.35	0.1718	16.94	0.0494		
Middle	1880.0	22.97	0.1982	17.38	0.0547		
Highest	1907.6	23.52	0.2249	18.45	0.0700		
Limit	EIRP < 2W	Res	sult	PA	SS		

WCDMA Band IV(RMC 12.2Kbps) Radiated Power EIRP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)		
Lowest	1712.4	20.96	0.1247	15.86	0.0385		
Middle	1732.6	20.75	0.1189	15.37	0.0344		
Highest	1752.6	21.38	0.1374	15.91	0.0390		
Limit	EIRP < 1W	Res	sult	PASS			

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 34 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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.

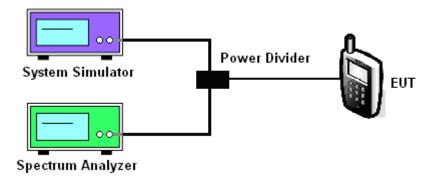
3.4.2 Measuring Instruments

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



SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 35 of 159
Report Issued Date : May 11, 2015

Report No.: FG531001A

3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	GSM850 (GPRS class 8) GSM850 (ED				50 (EDGE c	OGE class 8)	
Channel	128	189	251	128	189	251	
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	248.00	244.00	244.00	246.00	244.00	246.00	
26dB BW (kHz)	310.00	310.00	308.00	308.00	306.00	308.00	

PCS Band							
Modes	GSM1900 (GPRS class 8) GSM1900 (EDGE class 8)				lass 8)		
Channel	512 661 810 (Low) (Mid) (High)		512 (Low)	661 (Mid)	810 (High)		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	
99% OBW (kHz)	244.00	244.00	244.00	242.00	244.00	246.00	
26dB BW (kHz)	314.00	312.00	314.00	304.00	302.00	310.00	

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)	4.14 4.16 4.14						
26dB BW (MHz)	4.68 4.68 4.68						

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)	4.16	4.16	4.16				
26dB BW (MHz)	4.68 4.68 4.68						

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 36 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

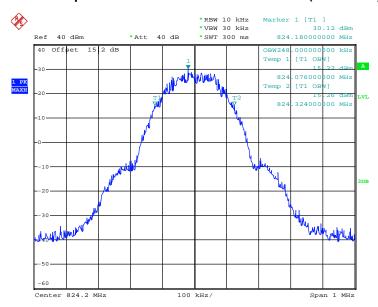
PCS Band					
Modes	WCDMA Band II (RMC 12.2Kbps)				
Channel	9262 (Low) 9400 (Mid)		9538 (High)		
Frequency (MHz)	1852.4	1880	1907.6		
99% OBW (MHz)	4.16	4.16	4.16		
26dB BW (MHz)	4.68	4.68	4.68		

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 37 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

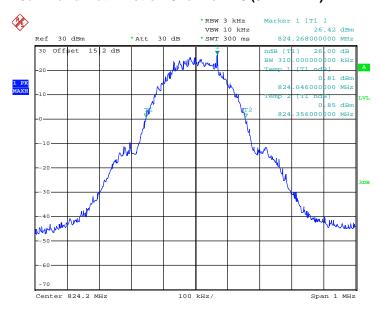
Band :	GSM 850	Test Mode :	GPRS class 8 Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 26.MAR.2015 20:04:15

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

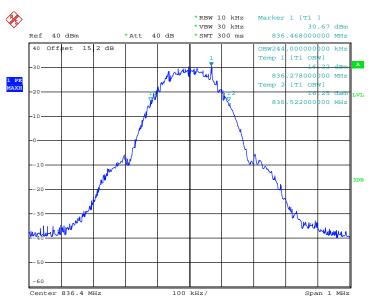


Date: 26.MAR.2015 19:57:09

SPORTON INTERNATIONAL (KUNSHAN) INC.

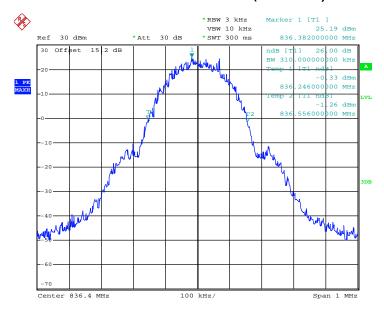
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 38 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 20:03:21

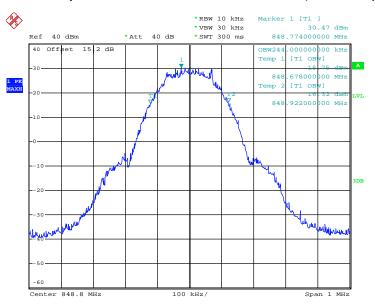
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 26.MAR.2015 19:59:02

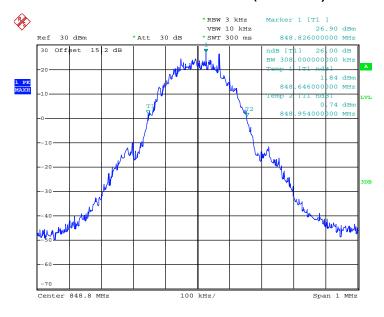
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 39 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 20:02:38

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

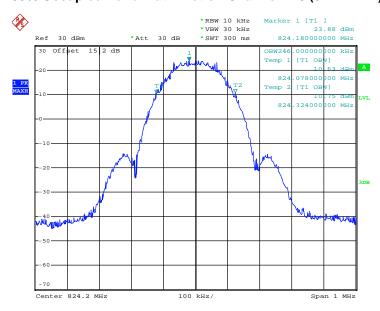


Date: 26.MAR.2015 19:59:47

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 40 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

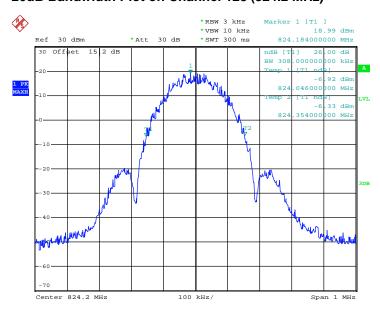
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 1.APR.2015 11:49:25

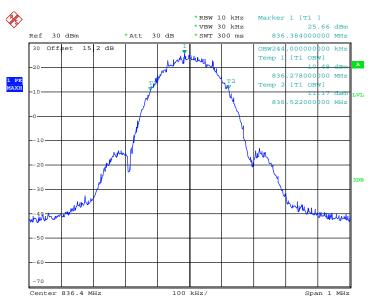
26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 26.MAR.2015 20:46:33

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 41 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 1.APR.2015 16:35:46

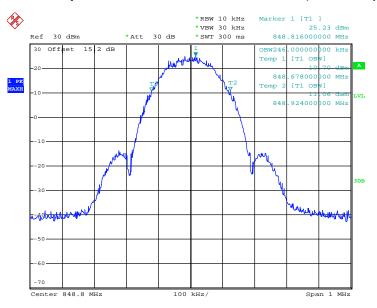
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 26.MAR.2015 20:47:29

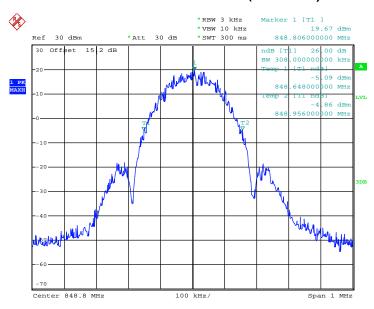
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 42 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 1.APR.2015 11:46:55

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

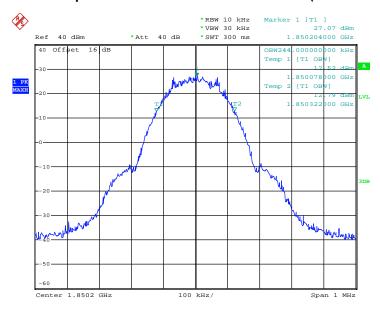


Date: 26.MAR.2015 20:48:32

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 43 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

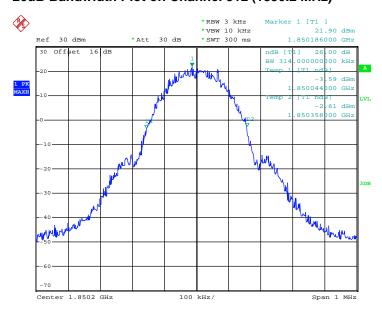
Band: GSM 1900 Test Mode: GPRS class 8 Link (GMSK)

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



Date: 26.MAR.2015 23:05:09

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

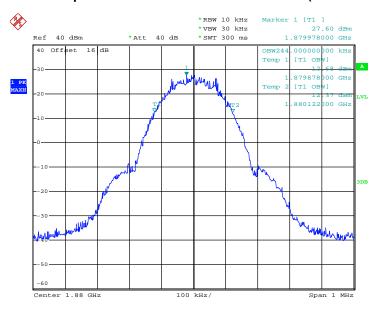


Date: 26.MAR.2015 23:01:16

SPORTON INTERNATIONAL (KUNSHAN) INC.

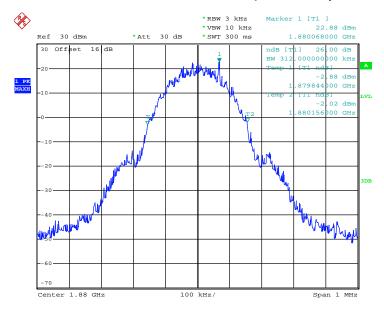
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 44 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 23:05:45

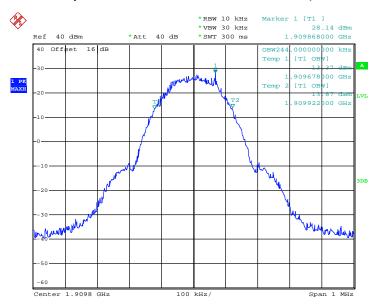
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 26.MAR.2015 23:02:28

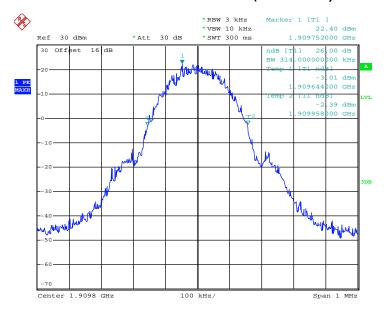
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 45 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 23:04:12

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

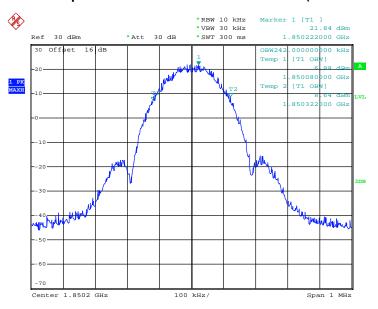


Date: 26.MAR.2015 23:03:12

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 46 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

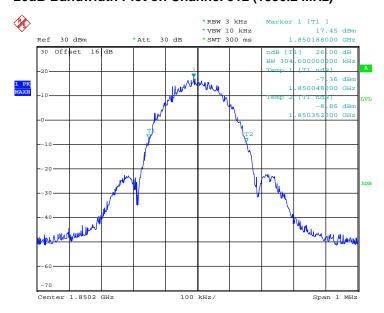
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 26.MAR.2015 23:46:58

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

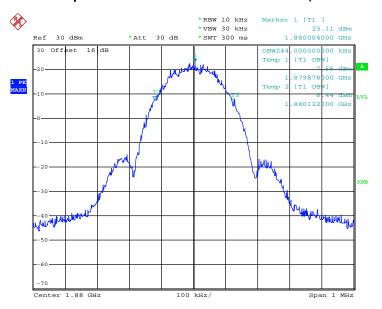


Date: 26.MAR.2015 23:42:51

SPORTON INTERNATIONAL (KUNSHAN) INC.

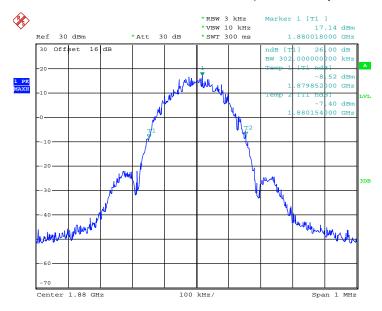
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 47 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 23:46:18

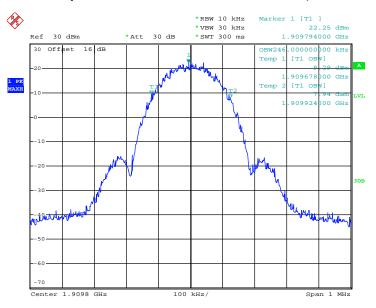
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 26.MAR.2015 23:43:36

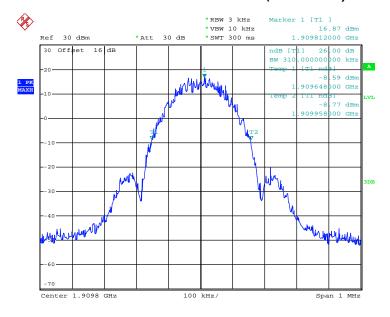
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 48 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 23:45:31

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

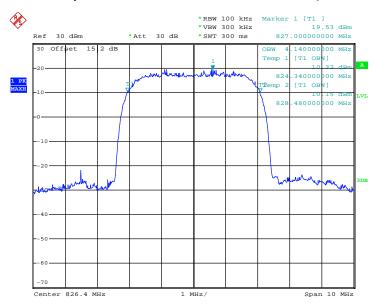


Date: 26.MAR.2015 23:44:25

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 49 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

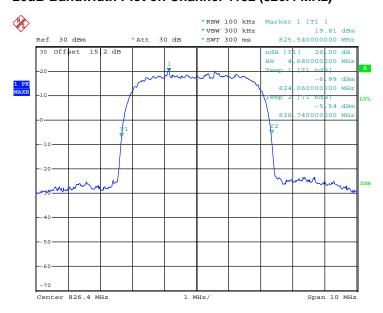
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 26.MAR.2015 21:34:05

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

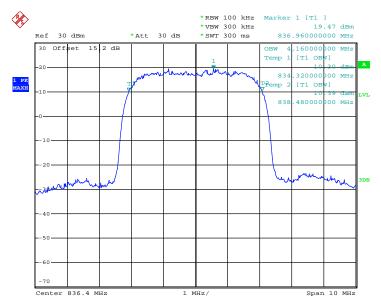


Date: 26.MAR.2015 21:30:02

SPORTON INTERNATIONAL (KUNSHAN) INC.

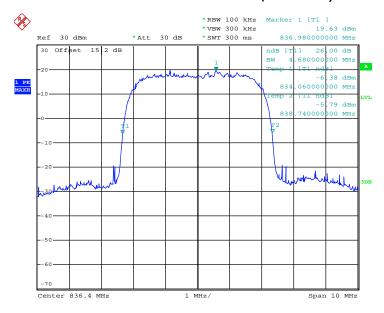
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 50 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 21:33:39

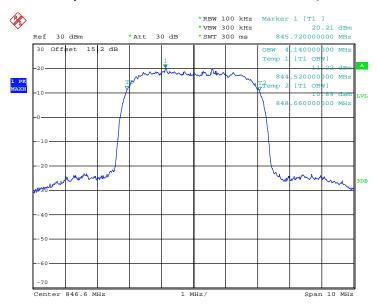
26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 26.MAR.2015 21:31:51

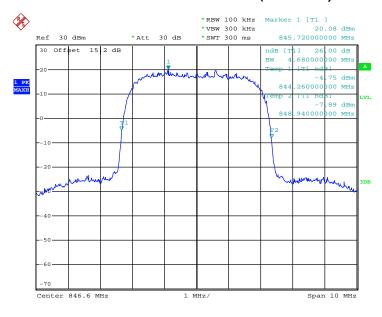
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 51 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 21:33:15

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

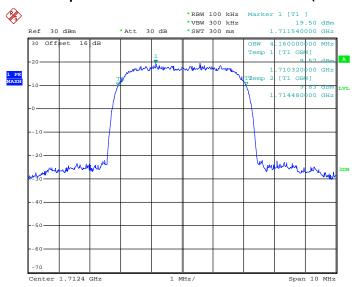


Date: 26.MAR.2015 21:32:18

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 52 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

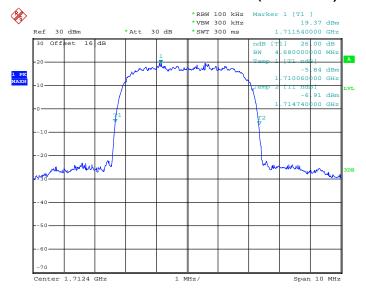
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 26.MAR.2015 22:31:05

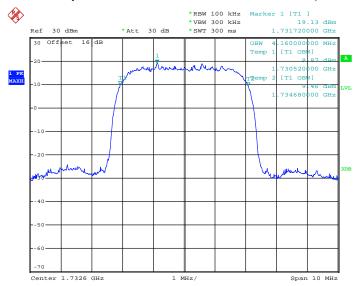
26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



Date: 26.MAR.2015 22:28:37

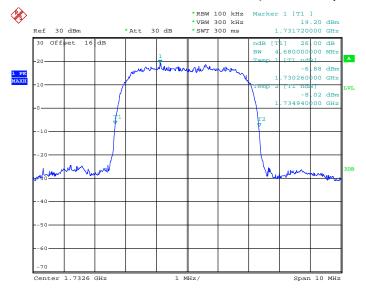
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 53 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 22:29:37

26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)



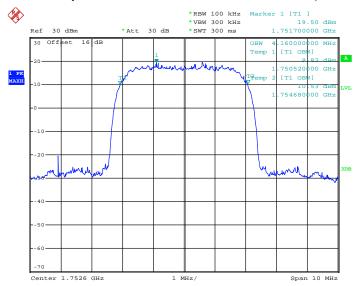
Date: 26.MAR.2015 22:29:01

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 54 of 159
Report Issued Date : May 11, 2015

Report No.: FG531001A

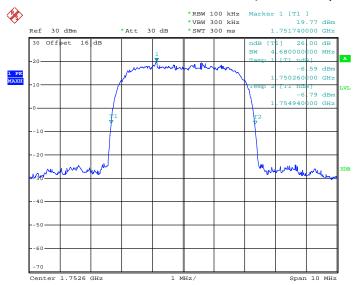
Report Version : Rev. 01

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



Date: 26.MAR.2015 22:31:44

26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)

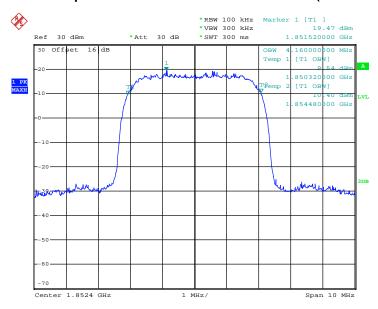


Date: 26.MAR.2015 22:28:05

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 55 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

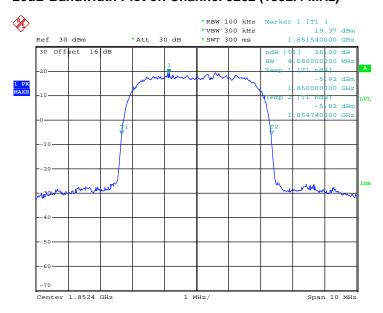
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 26.MAR.2015 21:55:16

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)

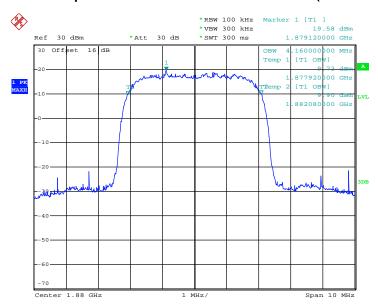


Date: 26.MAR.2015 21:53:01

SPORTON INTERNATIONAL (KUNSHAN) INC.

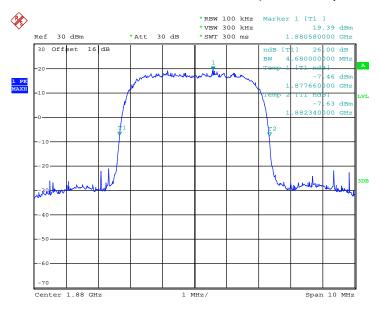
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 56 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 21:54:55

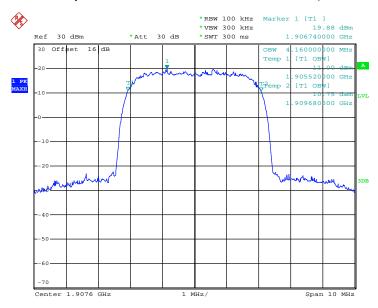
26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 26.MAR.2015 21:53:27

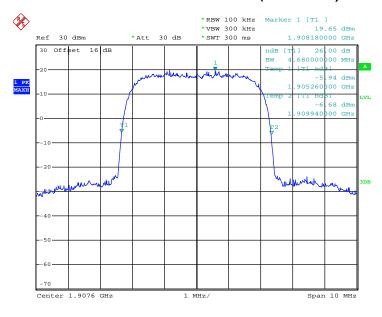
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 57 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



Date: 26.MAR.2015 21:54:33

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 26.MAR.2015 21:53:48

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 58 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

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

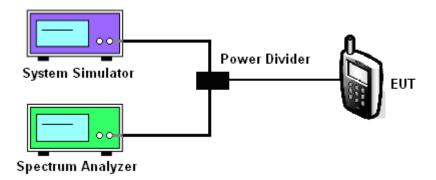
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup

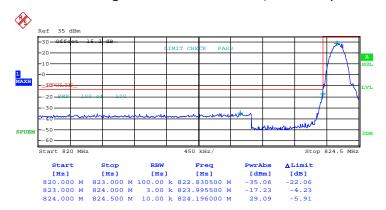


TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE

3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GPRS class 8 Link (GMSK)
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Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 26.MAR.2015 20:26:05

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 60 of 159 Report Issued Date: May 11, 2015

Report No.: FG531001A

: Rev. 01 Report Version

Band: GSM850 Test Mode: GPRS class 8 Link (GMSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 27.MAR.2015 00:44:31

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 61 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 26.MAR.2015 20:44:42

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 62 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Higher Band Edge Plot on Channel 251 (848.8 MHz)

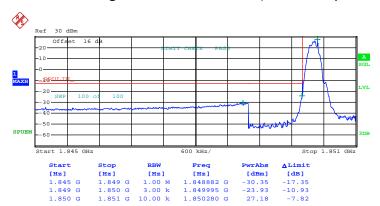


Date: 26.MAR.2015 20:39:49

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 63 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band: GSM1900 Test Mode: GPRS class 8 Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

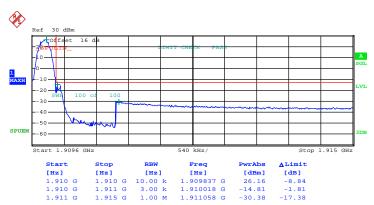


Date: 26.MAR.2015 23:12:51

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 64 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band: GSM1900 Test Mode: GPRS class 8 Link (GMSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

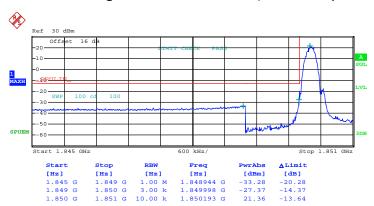


Date: 26.MAR.2015 23:15:16

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 65 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

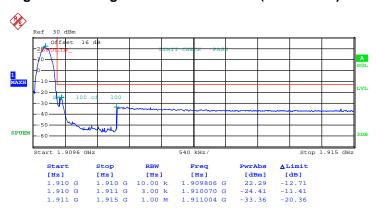


Date: 27.MAR.2015 00:00:24

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 66 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

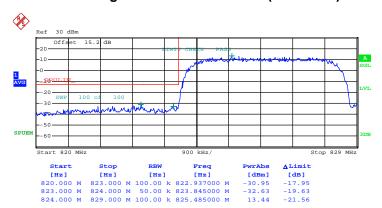


Date: 27.MAR.2015 00:02:27

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 67 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 26.MAR.2015 21:39:27

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 68 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Higher Band Edge Plot on Channel 4233 (846.6 MHz)

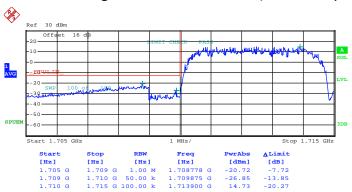


Date: 26.MAR.2015 21:41:22

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 69 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Lower Band Edge Plot on Channel 1312 (1712.4 MHz)

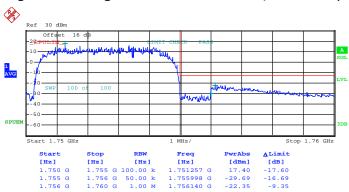


Date: 26.MAR.2015 22:42:12

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 70 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)

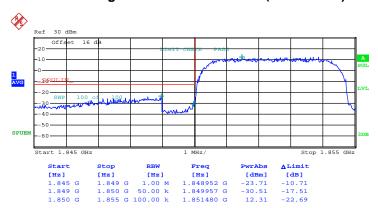


Date: 26.MAR.2015 22:43:53

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 71 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)

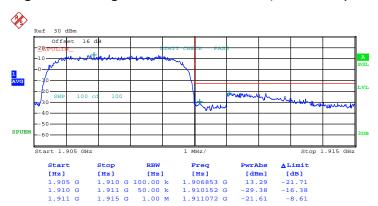


Date: 26.MAR.2015 22:00:42

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 72 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 26.MAR.2015 22:02:34

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 73 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

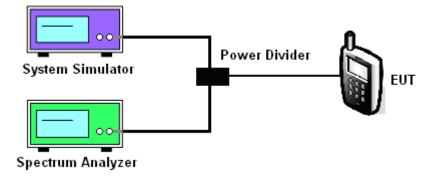
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup

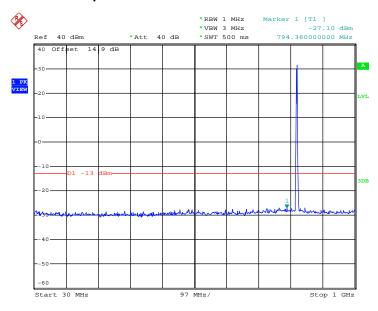


TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 74 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.6.5 Test Result (Plots) of Conducted Spurious Emission

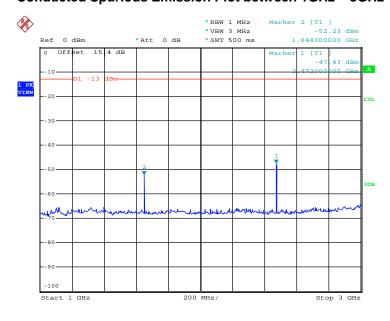
Band :	GSM850	Channel:	CH128
Test Mode :	GPRS class 8 Link (GMSK)	Frequency:	824.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 1.APR.2015 22:25:45

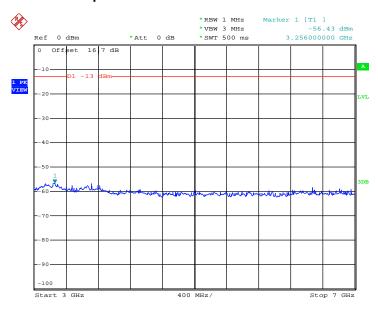
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 1.APR.2015 22:29:19

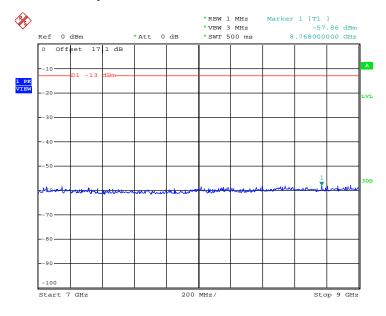
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 75 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 22:30:07

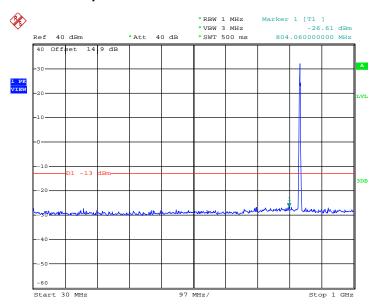
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 1.APR.2015 22:31:28

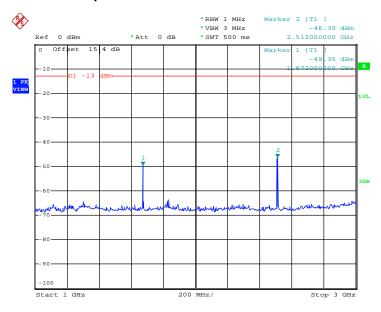
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 76 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	GSM850	Channel:	CH189
Test Mode :	GPRS class 8 Link (GMSK)	Frequency:	836.4 MHz



Date: 26.MAR.2015 20:09:43

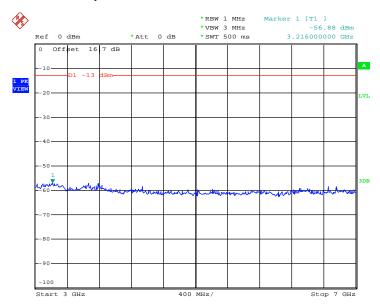
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 26.MAR.2015 20:12:47

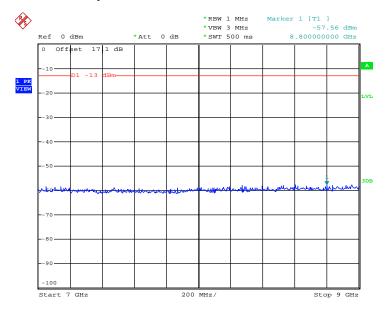
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 77 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 26.MAR.2015 20:14:00

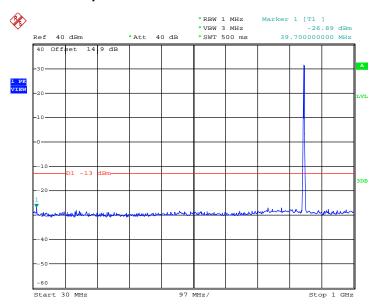
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 26.MAR.2015 20:15:02

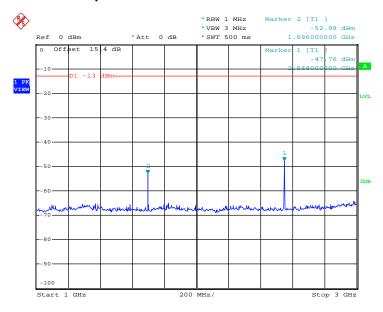
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 78 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	GSM850	Channel:	CH251
Test Mode :	GPRS class 8 Link (GMSK)	Frequency:	848.8 MHz



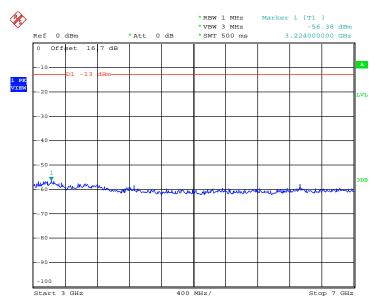
Date: 1.APR.2015 22:27:27

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



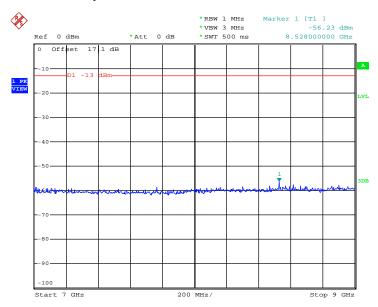
Date: 1.APR.2015 22:28:51

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 79 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 22:30:25

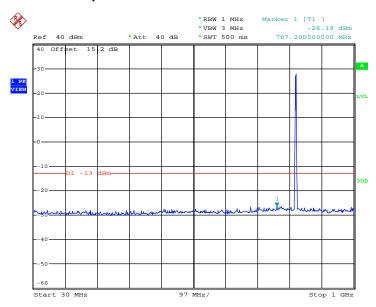
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



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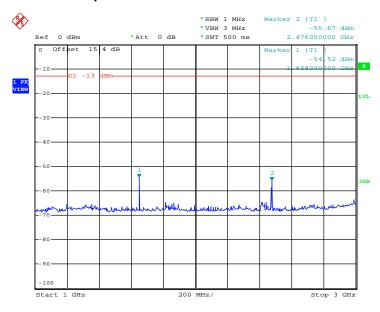
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 80 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



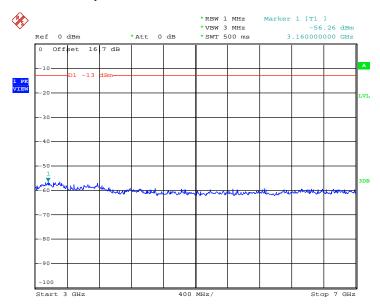
Date: 3.APR.2015 22:25:33

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



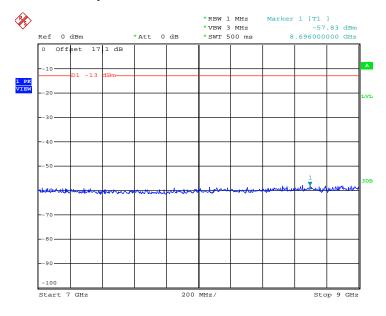
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 81 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 22:54:24

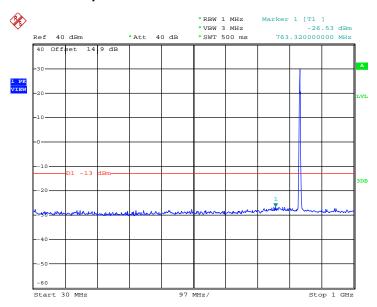
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



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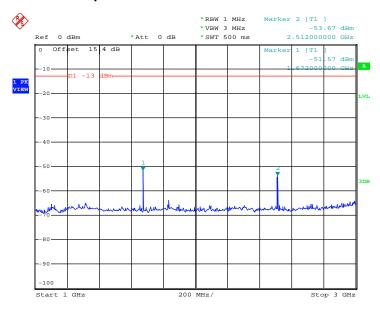
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 82 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



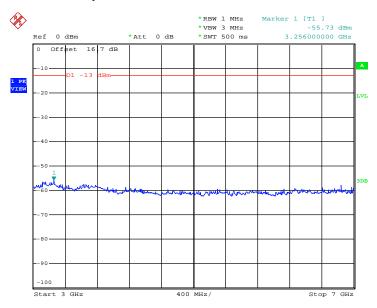
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



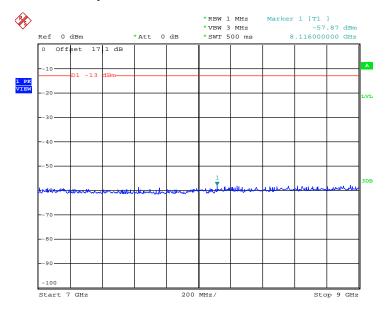
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 83 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 26.MAR.2015 21:02:16

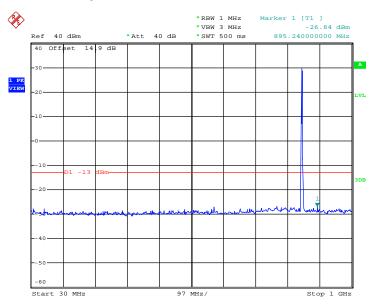
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



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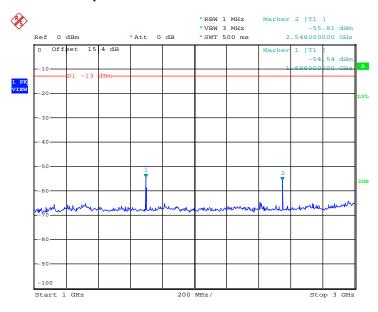
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 84 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	GSM850	Channel:	CH251
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	848.8 MHz



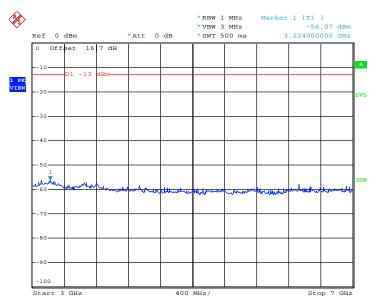
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



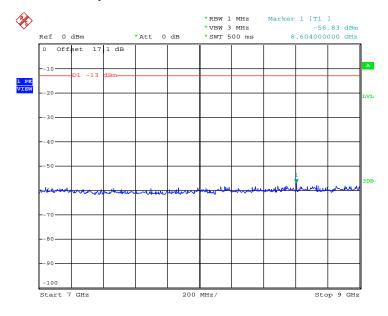
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 85 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 22:54:05

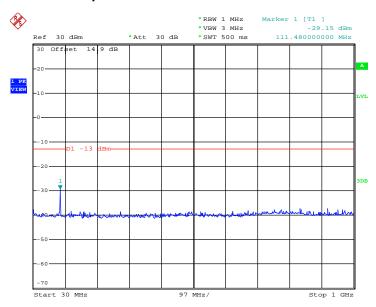
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 1.APR.2015 22:53:33

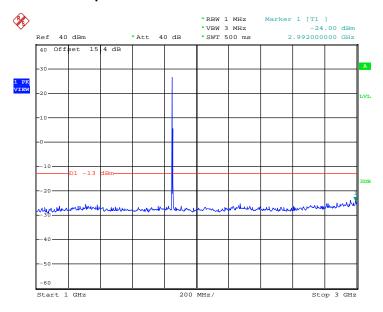
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 86 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	GSM1900	Channel:	CH512
Test Mode :	GPRS class 8 Link (GMSK)	Frequency:	1850.2 MHz



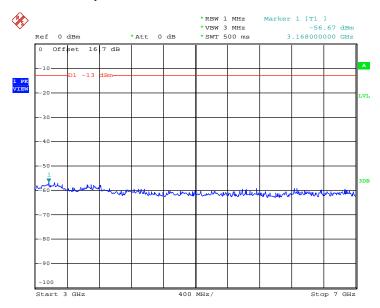
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



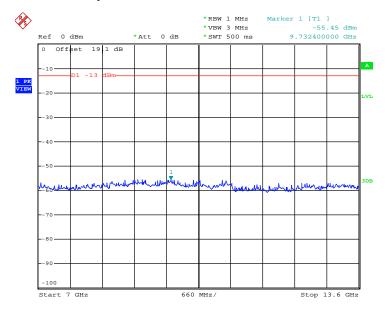
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 87 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



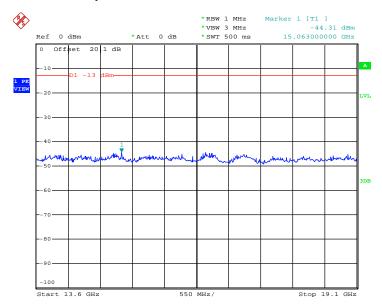
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Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 1.APR.2015 23:44:24

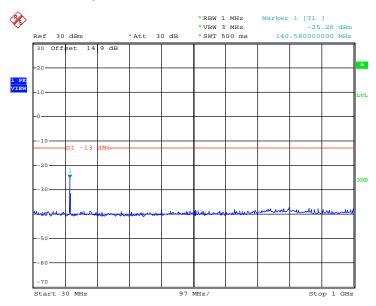
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 88 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 23:42:51

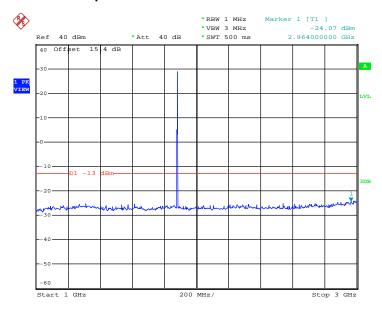
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 89 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	GSM1900	Channel:	CH661
Test Mode :	GPRS class 8 Link (GMSK)	Frequency:	1880.0 MHz



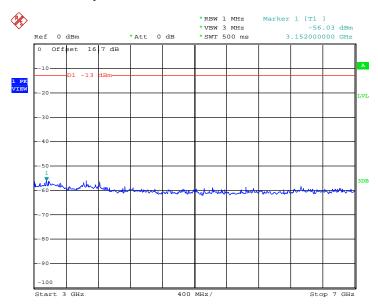
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



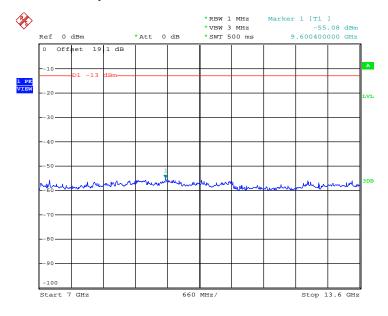
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 90 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



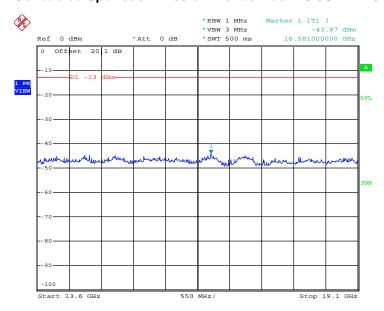
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Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



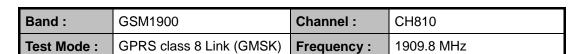
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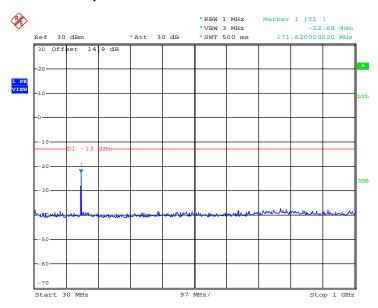
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 91 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 26.MAR.2015 22:54:51

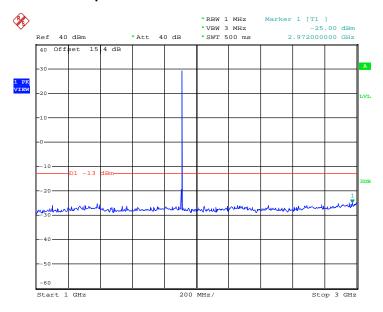
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Report Issued Date : May 11, 2015
Report Version : Rev. 01





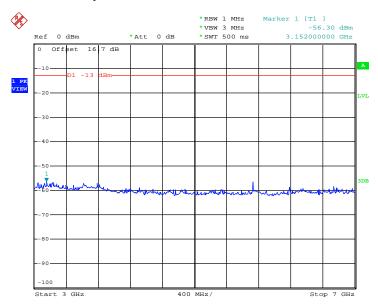
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



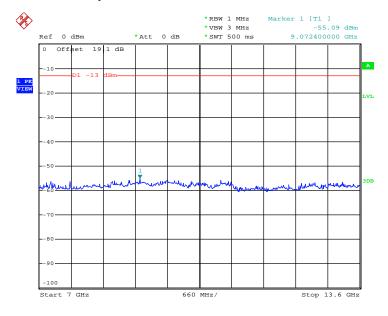
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Report Issued Date : May 11, 2015
Report Version : Rev. 01



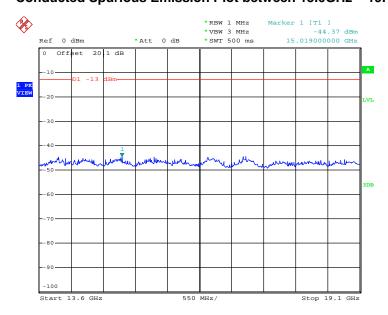
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Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



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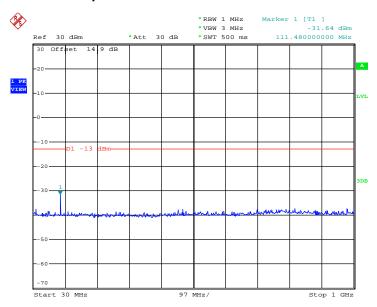
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Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 23:43:09

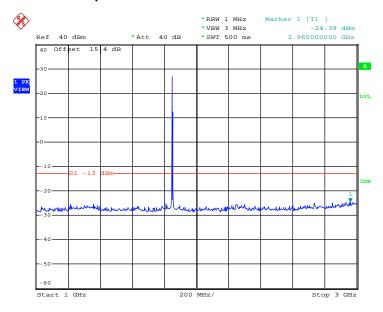
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 95 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



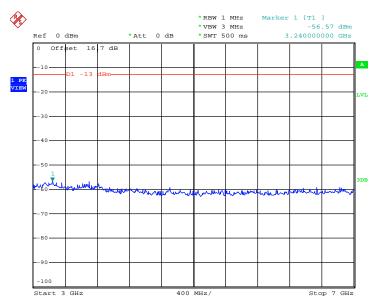
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



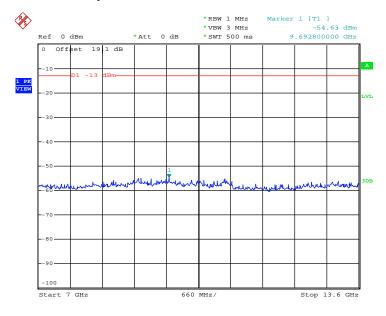
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 96 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



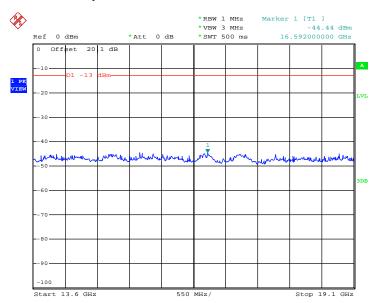
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Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



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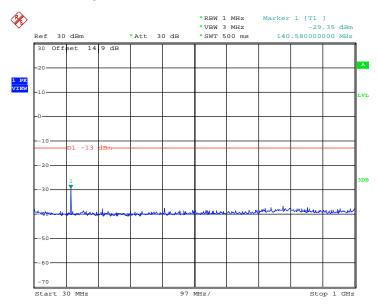
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Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 23:56:41

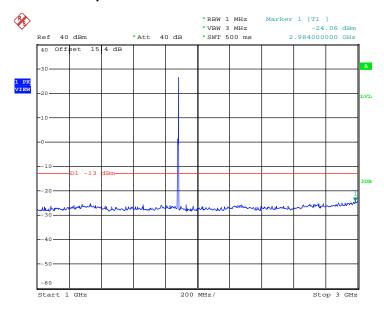
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 98 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



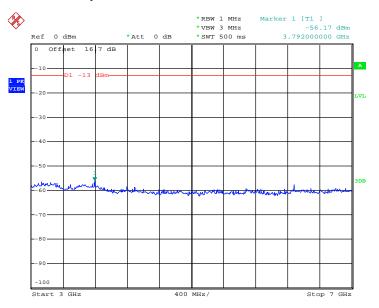
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



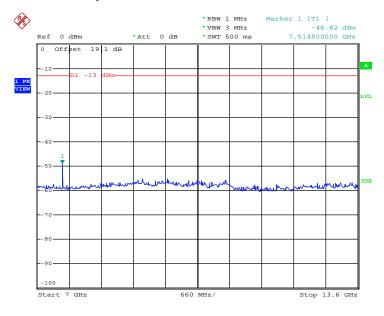
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 99 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



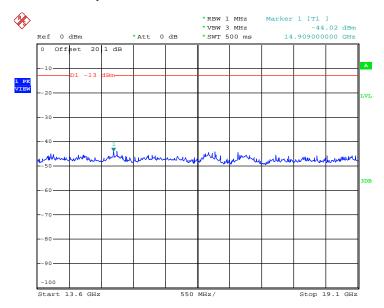
Date: 26.MAR.2015 23:28:19

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 26.MAR.2015 23:40:01

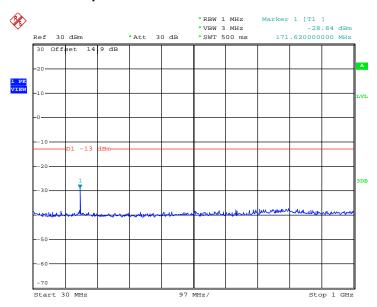
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 100 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 26.MAR.2015 23:40:52

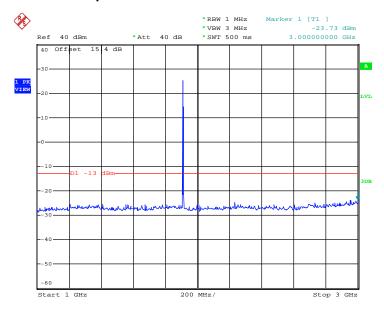
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 101 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



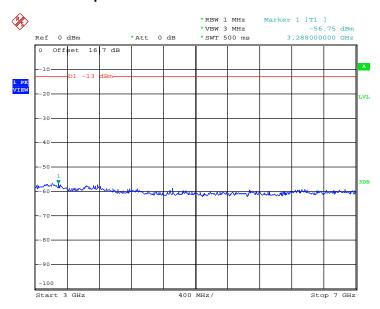
Date: 1.APR.2015 23:52:27

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



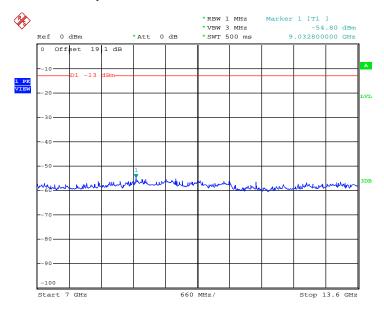
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 102 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



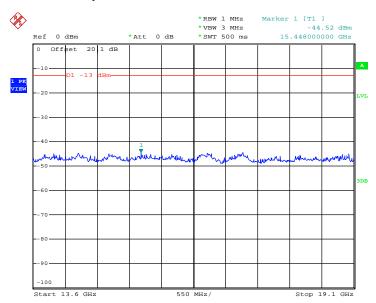
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Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



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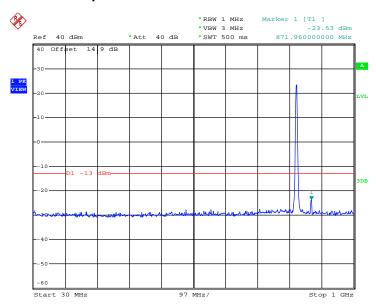
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 103 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 23:56:59

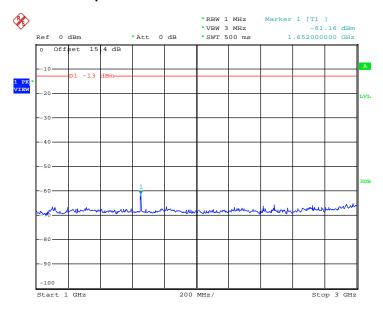
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 104 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	WCDMA Band V	Channel:	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	826.4 MHz



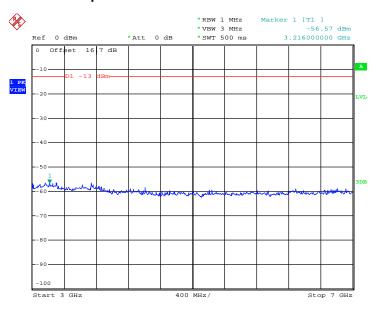
Date: 1.APR.2015 23:01:45

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



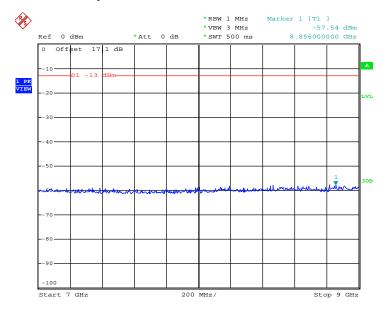
Date: 1.APR.2015 23:04:41

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 105 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 1.APR.2015 23:06:54

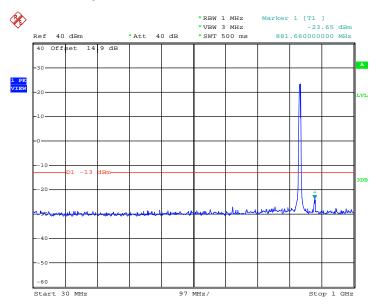
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 1.APR.2015 23:07:33

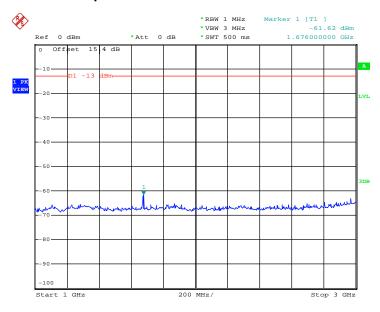
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 106 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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



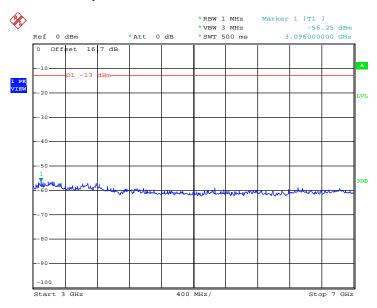
Date: 26.MAR.2015 21:27:53

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



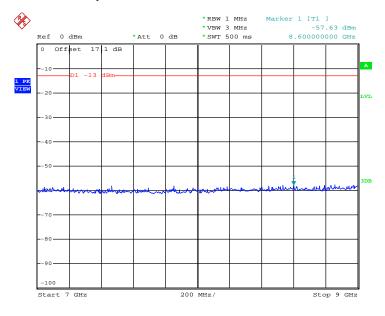
Date: 26.MAR.2015 21:26:13

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 107 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01



Date: 26.MAR.2015 21:25:20

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

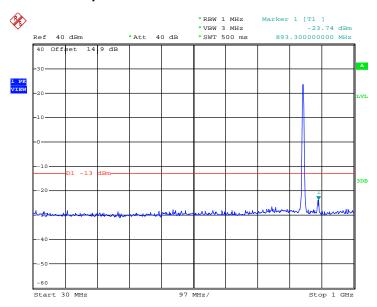


Date: 26.MAR.2015 21:24:30

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 108 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

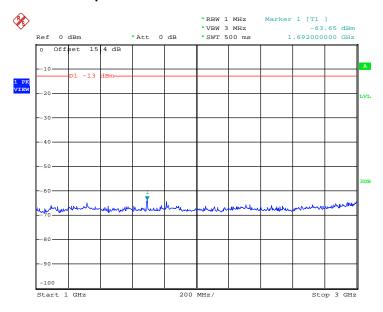
Band :	WCDMA Band V	Channel:	CH4233
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	846.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 1.APR.2015 23:02:29

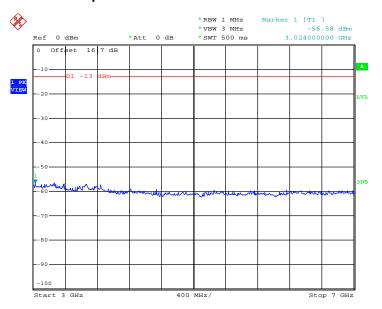
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 1.APR.2015 23:04:11

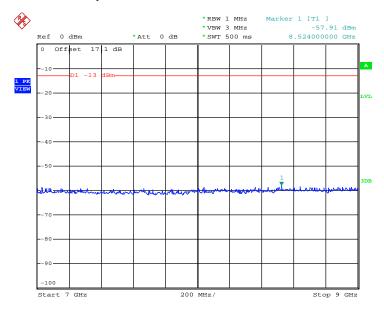
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 109 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 1.APR.2015 23:06:18

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

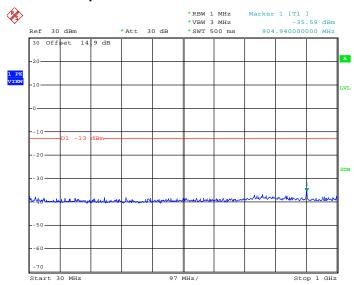


Date: 1.APR.2015 23:08:08

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 110 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

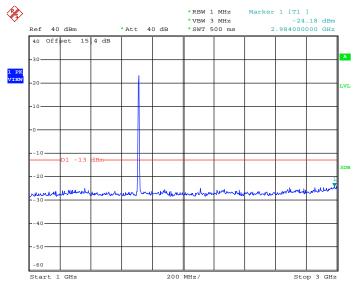
Band :	WCDMA Band IV	Channel:	CH1312
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1712.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2015 00:01:03

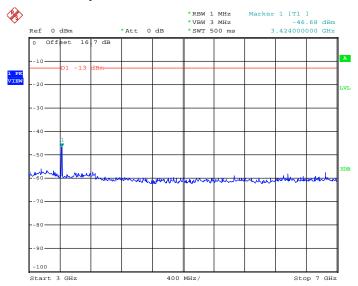
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 2.APR.2015 00:02:55

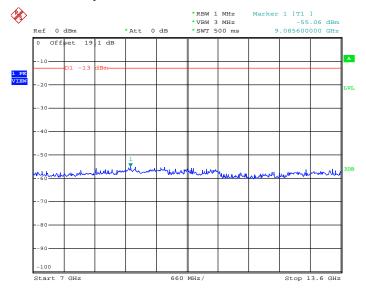
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 111 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 2.APR.2015 00:03:33

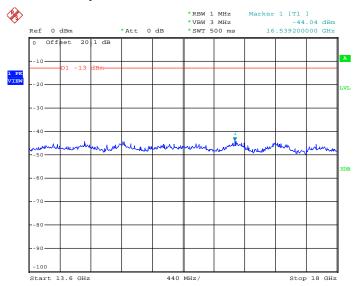
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 2.APR.2015 00:05:00

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 112 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz

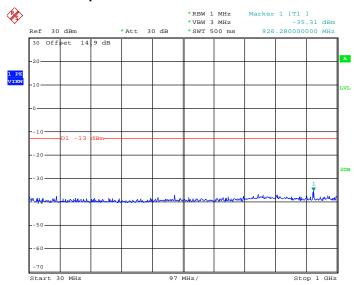


Date: 2.APR.2015 00:05:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 113 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

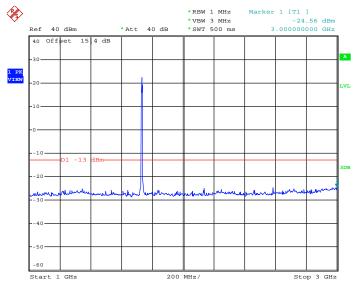
Band:	WCDMA Band IV	Channel:	CH1413
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1732.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 26.MAR.2015 22:45:05

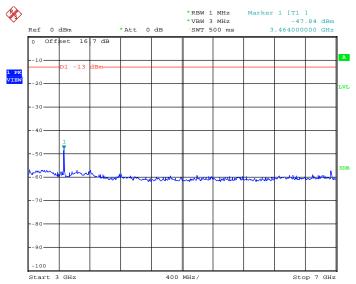
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 26.MAR.2015 22:46:19

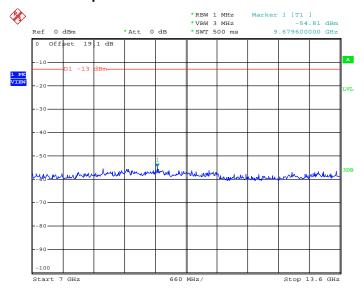
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 114 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 26.MAR.2015 22:47:07

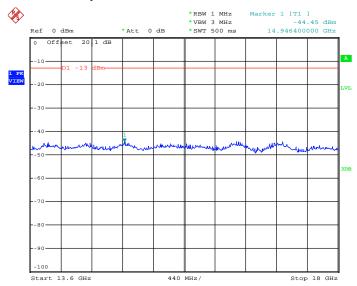
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 26.MAR.2015 22:48:31

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 115 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz

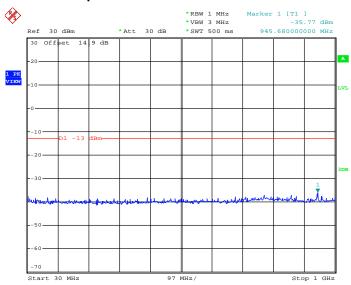


Date: 26.MAR.2015 22:49:21

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 116 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

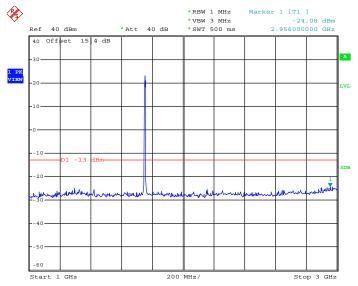
Band :	WCDMA Band IV	Channel:	CH1513
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1752.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2015 00:01:32

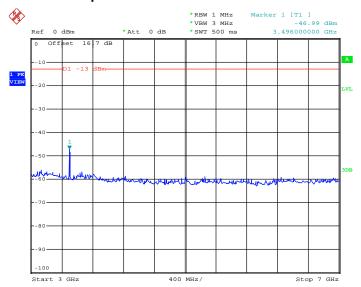
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 2.APR.2015 00:02:19

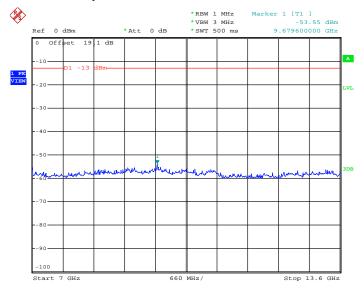
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 117 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 2.APR.2015 00:03:54

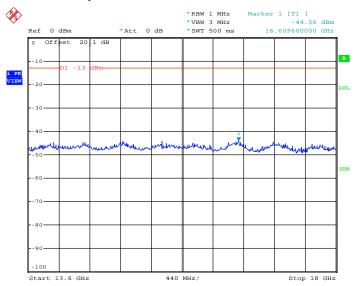
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 2.APR.2015 00:04:34

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 118 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz

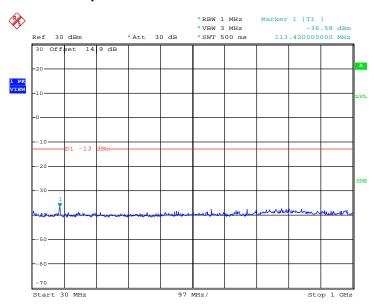


Date: 2.APR.2015 00:06:03

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 119 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

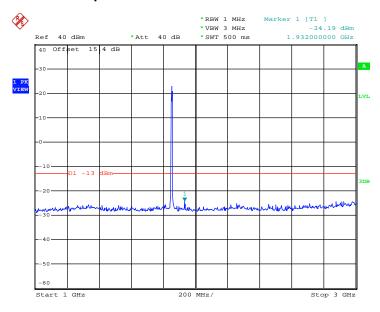
Band :	WCDMA Band II	Channel:	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1852.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 1.APR.2015 23:11:25

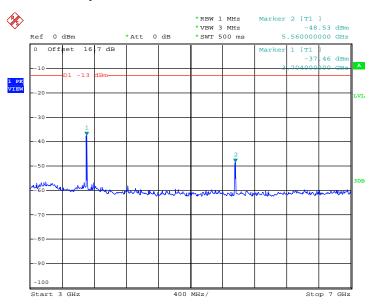
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 1.APR.2015 23:20:55

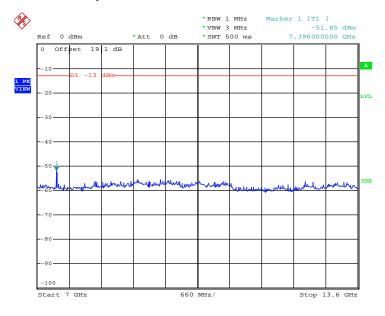
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 120 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 1.APR.2015 23:21:45

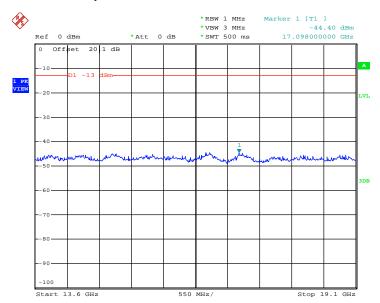
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 1.APR.2015 23:23:14

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 121 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

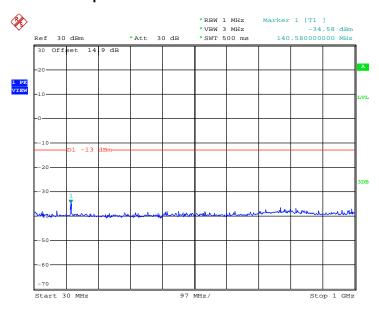


Date: 1.APR.2015 23:25:11

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 122 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

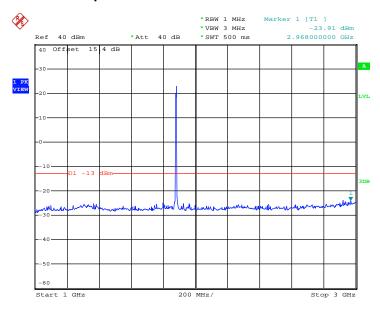
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 26.MAR.2015 22:03:57

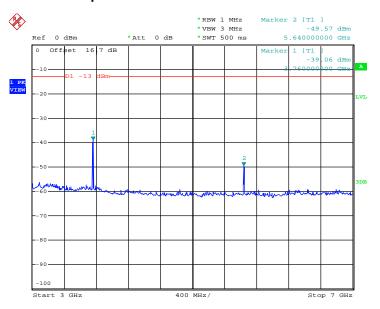
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 26.MAR.2015 22:05:15

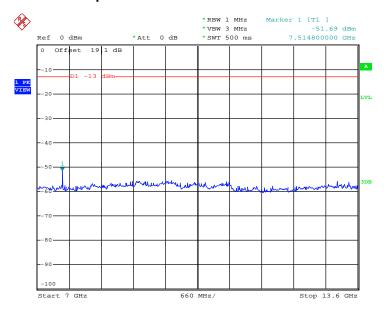
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 123 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 26.MAR.2015 22:06:10

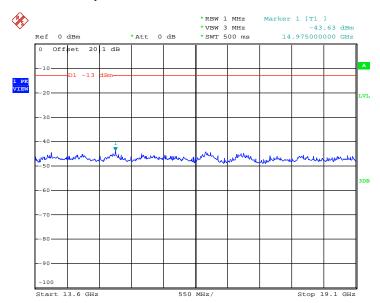
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 26.MAR.2015 22:07:16

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 124 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

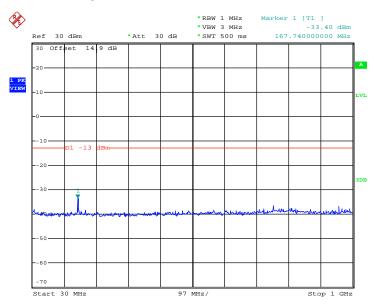


Date: 26.MAR.2015 22:08:13

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 125 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

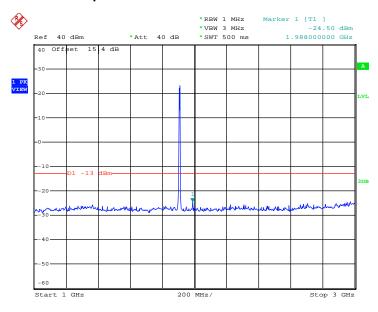
Band :	WCDMA Band II	Channel:	CH9538
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1907.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 1.APR.2015 23:12:01

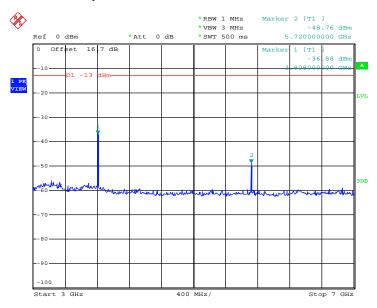
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 1.APR.2015 23:20:23

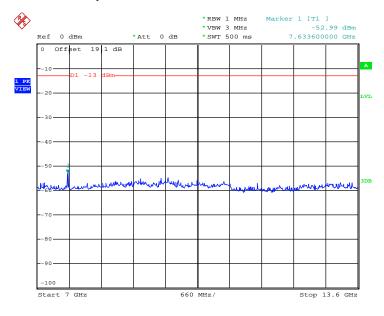
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 126 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 1.APR.2015 23:22:08

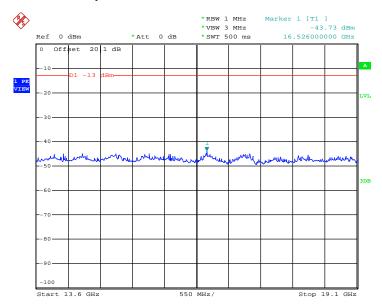
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 1.APR.2015 23:22:58

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 127 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 1.APR.2015 23:25:28

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 128 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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.

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

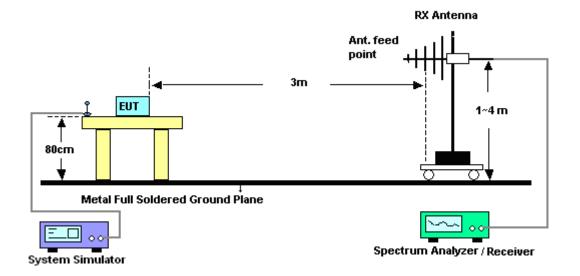
- 1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 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.
- 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.

Report Version

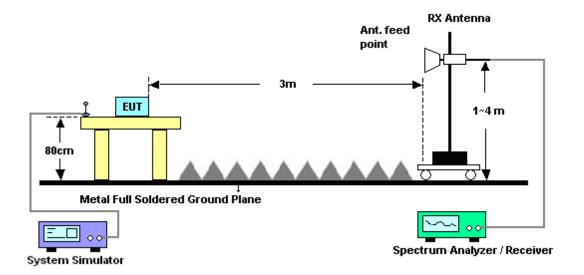
: Rev. 01

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 130 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.7.5 Test Result of Field Strength of Spurious Radiated

Band :		GSM850 for CH128				Temperature	:	23~25°C			
Test Mode :	:	GPRS class 8 Link (GMSK)				Relative Hum	nidity :	42~58%	2~58%		
Test Engine	eer :	Lewis He				Polarization		Horizontal			
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20dB below	limit line.		
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna Polarizat	ion Result		
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE				
1648	-63.5	50 -13	-50.50	-67.73	-65.26	0.98	4.8	19 H	Pass		
2472	-35.3	33 -13	-22.33	-44.46	-37.21	1.28	5.3	32 H	Pass		
4120	-53.9	93 -13	-40.93	-69.09	-58.57	1.83	8.6	52 H	Pass		
8240	-47.2	21 -13	-34.21	-72.85	-55.03	2.32	12.	29 H	Pass		

Band :		GSM850 fc	or CH128		l	Temperature	:	23~25°C	3~25°C	
Test Mode :		GPRS class 8 Link (GMSK)				Relative Hum	nidity:	42~58%		
Test Engine	eer:	Lewis He				Polarization :		Vertical		
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB belov	w limit line.	
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polariz	ation Result	
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBr	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gai (dB		V)	
(MHz) 1648	(dB r	, ()		•				si) (H/	,	
, ,		37 -13	(dB)	(dBm)	(dBm)	(dB)	(dE	9 V	Pass	
1648	-54.8	37 -13 70 -13	(dB) -41.87	(dBm) -57.52	(dBm) -56.63	(dB) 0.98	(dE 4.8	9 V 2 V	Pass Pass	

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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 131 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM850 for CH189					Temperature	:	23~25°C		
Test Mode	:	GPRS class 8 Link (GMSK) Relative Humidity: 42~589					3%				
Test Engine	eer:	Lewis	s He				Polarization		Horizo	ontal	
Remark :		Spuri	ous er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below limit	line.
Frequency	ERI	P l	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBr	n) (d	dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gai (dB		(H/V)	
1672	-60.4	40	-13	-47.40	-64.98	-62.08	0.99	4.8	2	Н	Pass
2512	-38.3	31	-13	-25.31	-47.42	-40.28	1.29	5.4	1	Н	Pass
4184	-52.0	07	-13	-39.07	-67.41	-56.69	1.87	8.6	4	Н	Pass
8368	-46.3	31	-13	-33.31	-72.25	-54.21	2.35	12.3	39	Н	Pass

Band :	(GSM850 for CH189				Temperature	23~25°C			
Test Mode	: (GPRS clas	s 8 Link ((GMSK)		Relative Hum	nidity :	42~58%		
Test Engine	eer :	Lewis He				Polarization	:	Vertical		
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB be	elow limit	line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable		enna Pol	arization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE	·	(H/V)	
1672	-53.0)1 -13	-40.01	-55.47	-54.69	0.99	4.8	2	V	Pass
2512	-38.9	92 -13	-25.92	-48.5	-40.89	1.29	5.4	1	V	Pass
4184	-54.7	70 -13	-41.70	-70.04	-59.32	1.87	8.6	4	V	Pass
8368	-42.9	99 -13	-29.99	-67.9	-50.89	2.35	12.	39	V	Pass

Page Number : 132 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	(GSM850 fo	r CH251			Temperature	:	23~25°C	
Test Mode	: (GPRS class 8 Link (GMSK) Relative Humidity: 42~58%							
Test Engine	eer : l	_ewis He				Polarization	:	Horizontal	
Remark :	Ş	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20dB below lir	nit line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polarizatio	n Result
			Limit	Reading	Power	loss	Gai	in	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i) (H/V)	
(MHz) 1696	-63.9	, , ,	(dB) -50.98	(dBm) -68.23	(dBm) -65.58	, ,	(dB 4.7	, ,	Pass
, ,	•	8 -13	, ,	, ,	, ,	1.00	,	5 H	Pass Pass
1696	-63.9	98 -13 94 -13	-50.98	-68.23	-65.58	1.00	4.7	5 H 4 H	
1696 2544	-63.9 -36.3	18 -13 14 -13 18 -13	-50.98 -23.34	-68.23 -45.91	-65.58 -38.32	1.00 1.30 1.90	4.7 5.4	5 H 4 H 5 H	Pass

					1					1
Band :		GSM850	for CH251			Temperature	:	23~25°C	;	
Test Mode	:	GPRS cla	ass 8 Link	(GMSK)		Relative Hun	nidity :	42~58%		
Test Engine	eer:	Lewis He				Polarization : Vertical				
Remark:		Spurious	emissions	within 30-	1000MHz	were found n	nore tha	n 20dB b	elow limit	line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Po	larization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBn	n) (dBm) (dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1696	-57.0	03 -13	-44.03	-60.25	-58.63	1.00	4.7	5	V	Pass
2544	-36.6	60 -13	-23.60	-47.03	-38.58	1.30	5.4	4	V	Pass
4248	-52.4	43 -13	-39.43	-67.79	-57.03	1.90	8.6	5	V	Pass
7640	-49.6	66 -13	-36.66	-73.6	-57.01	2.38	11.8	38	V	Pass
8488	-43.4	45 -13	-30.45	-68.65	-51.42	2.37	12.4	19	V	Pass

Page Number : 133 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM850 fo	r CH128			Temperature	:	23~25°C		
Test Mode	:	EDGE clas	s 8 Link (8PSK)		Relative Hun	nidity :	42~58%		
Test Engine	eer :	Lewis He				Polarization	:	Horizontal		
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20dB belo	w limit	line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polari	zation	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		/V)	
1648	-66.7	, , ,	-53.75	-71.23	-68.51	0.98	4.8	,		Pass
2472	-42.8	31 -13	-29.81	-51.77	-44.69	1.28	5.3	2 F	4	Pass
4120	-55.6	8 -13	-42.68	-71.35	-60.32	1.83	8.6	i2 H	1	Pass

Band :		SSM850 fo	r CH128			Temperature	:	23~25°C			
Test Mode	: E	DGE class	s 8 Link (8PSK)		Relative Hum	idity :	42~5	8%		
Test Engine	eer : L	ewis He				Polarization :		Vertic	al		
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP (dBm		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1648	-64.2	0 -13	-51.20	-67.2	-65.96	0.98	4.8	19	V	Pass	
2472	-40.0	8 -13	-27.08	-50.29	-41.96	1.28	5.3	32	V	Pass	
4120	-56.4	8 -13	-43.48	-71.62	-61.12	1.83	8.6	32	V	Pass	

Page Number : 134 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM850 fc	r CH189			Temperature	:	23~25°C	23~25°C		
Test Mode :	:	EDGE clas	s 8 Link (8PSK)		Relative Hun	nidity :	42~58%			
Test Engine	eer :	Lewis He				Polarization	:	Horizontal			
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB bel	ow limit	line.	
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable		enna Polar	rization	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		H/V)		
1672	-64.9	95 -13	-51.95	-69.42	-66.63	0.99	4.8	2	Н	Pass	
2512	-41.2	21 -13	-28.21	-50.28	-43.18	1.29	5.4	.1	Н	Pass	
4184	-52.6	63 -13	-39.63	-68.15	-57.25	1.87	8.6	i4	Н	Pass	

Band :	G	SM850 fo	r CH189			Temperature	:	23~25°C			
Test Mode	: E	DGE class	s 8 Link (8PSK)		Relative Hum	idity :	42~5	8%		
Test Engine	eer : L	ewis He				Polarization :	:	Vertic	al		
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP (dBm		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1672	-55.28	8 -13	-42.28	-58	-56.96	0.99	4.8	2	V	Pass	
2512	-39.12	2 -13	-26.12	-48.69	-41.09	1.29	5.4	1	V	Pass	
4184	-53.40	0 -13	-40.40	-69.22	-58.02	1.87	8.6	34	V	Pass	

Page Number : 135 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM850 fo	r CH251			Temperature	:	23~25°C	23~25°C		
Test Mode	:	EDGE class	s 8 Link ((8PSK)		Relative Hun	nidity :	42~58%			
Test Engine	eer :	Lewis He				Polarization	:	Horizontal			
Remark :	,	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dB belov	v limit line.		
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polariz	ation Result		
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	3i) (H/\	/)		
1696	-66.6	31 -13	-53.61	-70.18	-68.21	1.00	4.7	′5 H	Pass		
2544	-35.1	11 -13	-22.11	-44.81	-37.09	1.30	5.4	4 H	Pass		
4248	-54.3	36 -13	-41.36	-69.72	-58.96	1.90	8.6	55 H	Pass		

Band :		GSM850 fo	r CH251			Temperature	:	23~25°C			
Test Mode	: E	EDGE class	s 8 Link ((8PSK)		Relative Hum	nidity :	42~58	3%		
Test Engine	eer : L	ewis He				Polarization :	:	Vertic	al		
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1696	-60.6	, , ,	-47.61	-63.97	-62.21	1.00	4.7	•	V	Pass	
2544	-37.4	5 -13	-24.45	-46.85	-41.58	1.30	5.4	4	V	Pass	
4248	-58.5	8 -13	-45.58	-74.36	-65.33	1.90	8.6	5	V	Pass	

Page Number : 136 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	(GSM1900 f	or CH51	2		Temperature	:	23~25°C		
Test Mode	: (GPRS class	s 8 Link ((GMSK)		Relative Hun	nidity:	42~58%		
Test Engine	eer : L	_ewis He				Polarization : Horizontal				
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	nore tha	n 20dB below lim	it line.	
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polarizatio	Result	
			Limit	Reading	Power	loss	Gai	in		
(MHz)										
(IVITZ)	(dBm	1) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	si) (H/V)		
3700	-49.6	, ,	(dB) -36.64	-64.3	(dBm) -56.21	(dB) 1.67	(dE 8.2	· · · · · ·	Pass	
	•	4 -13	,	,	, ,	1.67	•	4 H	Pass Pass	
3700	-49.6	4 -13 5 -13	-36.64	-64.3	-56.21	1.67 2.65	8.2	4 H		
3700 5548	-49.6 -41.9	4 -13 5 -13 9 -13	-36.64 -28.95	-64.3 -61.35	-56.21 -49.02	1.67 2.65 2.46	8.2 9.7	4 H 2 H 61 H	Pass	

_					_		_				
Band :		GSN	VI1900 f	or CH512	2		Temperature	:	23~2	5°C	
Test Mode		GPF	RS class	s 8 Link (GMSK)		Relative Hun	nidity:	42~5	8%	
Test Engine	er:	Lew	is He				Polarization : Vertical				
Remark :		Spu	rious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) ((dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3700	-47.6	64	-13	-34.64	-61.76	-54.21	1.67	8.2	4	V	Pass
5548	-47.2	25	-13	-34.25	-65.11	-54.32	2.65	9.7	2	V	Pass
7403	-44.3	32	-13	-31.32	-68.24	-53.47	2.46	11.6	61	V	Pass
9251	-41.	11	-13	-28.11	-66.5	-51.17	2.54	12.0	60	V	Pass
11098	-45.7	70	-13	-32.70	-74.49	-55.47	2.69	12.	46	V	Pass

Page Number : 137 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GS	M1900 f	or CH66	1		Temperature	:	23~25°C	~25°C		
Test Mode	:	GΡ	RS class	s 8 Link (GMSK)		Relative Hum	nidity :	42~58%			
Test Engine	eer:	Lev	vis He				Polarization		Horizontal			
Remark :		Spu	ırious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dB be	low limit	line.	
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable		enna Pola	rization	Result	
(MHz)	(dBı	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE	· 	H/V)		
3763	-50.	39	-13	-37.39	-64.78	-57.02	-	8.3	,	H	Pass	
5639	-45.	28	-13	-32.28	-64.56	-52.33	2.71	9.7	6	Н	Pass	
7522	-45.	64 -13 -32.64 -70.17 -55					2.42	11.8	31	Н	Pass	
9398	-47.	52	-13	-34.52	-76.37	-57.49	2.57	12.	54	Н	Pass	

Band :		GSM1900	for CH66	1		Temperature	:	23~25°C	
Test Mode :	:	GPRS clas	s 8 Link ((GMSK)		Relative Hum	nidity:	42~58%	
Test Engine	eer :	Lewis He				Polarization		Vertical	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB below li	mit line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna Polarizati	on Result
(MHz)	(dBr	m) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		
3763	-48.9	95 -13	-35.95	-62.99	-55.58	1.69	8.3	32 V	Pass
5639	-49.	58 -13	-36.58	-67.16	-56.63	2.71	9.7	76 V	Pass
7522	-47.	72 -13	-34.72	-71.32	-57.11	2.42	11.8	81 V	Pass
9398	-49.	50 -13	-36.50	-74.81	-59.47	2.57	12.	54 V	Pass

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 138 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM	11900 f	or CH81)		Temperature	:	23~2	5°C	
Test Mode :		GPR	S class	8 Link (GMSK)		Relative Hum	nidity :	42~5	8%	
Test Engine	er:	Lewi	is He				Polarization	ontal			
Remark :		Spur	rious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBr	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3819	-52.4	44	-13	-39.44	-66.75	-59.12	1.70	8.3	8	Н	Pass
5730	-43.9	99	-13	-30.99	-63.26	-51.02	2.76	9.7	9	Н	Pass
7641	-49.8	32 -13 -36.82 -73.86 -59					2.38	11.8	38	Н	Pass
9552	-48.3	34	-13	-35.34	-77.36	-58.21	2.60	12.	47	Н	Pass

Band :		GSM1900	for CU91	0		Temperature		23~25°C			
Danu .		G3W1900	101 01 10 1	0		remperature	•	23~25	<u> </u>		
Test Mode	•	GPRS clas	s 8 Link ((GMSK)		Relative Hum	nidity:	42~589	%		
Test Engine	eer:	Lewis He				Polarization	•	Vertica	ertical		
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB	below limit	line.	
Frequency	EIR	P Limit	Over SPA S.G. TX Cable TX Antenna Polarizat					Polarization	Result		
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
3819	-49.6	64 -13	-36.64	-63.87	-56.32	1.70	8.3	8	V	Pass	
5730	-43.9	93 -13	-30.93	-62.33	-50.96	2.76	9.7	9	V	Pass	
7641	-49.0	04 -13	-36.04	-72.78	-58.54	2.38	11.8	38	V	Pass	
9552	-49.0	04 -13	-36.04	-74.94	-58.91	2.60	12.	47	V	Pass	

Page Number : 139 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM ²	1900 f	or CH512	2		Temperature	:	23~25°	°C	
Test Mode	:	EDGE	E class	8 Link (8PSK)		Relative Hum	nidity :	42~58%	%	
Test Engine	eer:	Lewis	з Не				Polarization		Horizor	ntal	
Remark :		Spuri	ous er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dB	below limit	line.
Frequency	EIR	P L	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBr	n) (d	dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Gai (dB		(H/V)	
3700	-53.4	45	-13	-40.45	-67.75	-60.02	1.67	8.2	4	Н	Pass
5548	-46.8	84	-13	-33.84	-66.34	-53.91	2.65	9.7	2	Н	Pass
7403	-48.0	02	-13	-35.02	-73.02	-57.17	2.46	11.6	61	Н	Pass
9251	-47.9	95	-13	-34.95	-75.78	-58.01	2.54	12.0	60	Н	Pass

		00144000						00 0500		
Band :		GSM1900	for CH51	2		Temperature	:	23~25°C		
Test Mode	:	EDGE clas	ss 8 Link ((8PSK)		Relative Hun	nidity:	42~58%		
Test Engine	eer :	Lewis He				Polarization	Vertical			
Remark:		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB belov	w limit lir	ie.
Frequency	EIR	P Limit	Limit Over SPA S.G. TX Cable TX An						ation R	esult
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	3i) (H/	V)	
3700	-55.4	46 -13	-42.46	-69.59	-62.03	1.67	8.2	24 V	P	Pass
5548	-52.	11 -13	-39.11	-69.9	-59.18	2.65	9.7	'2 V	' F	Pass
7403	-51.2	26 -13	-38.26	-74.64	-60.41	2.46	11.0	61 V	' F	ass
9251	-46.8	87 -13	-33.87	-72.34	-56.93	2.54	12.	60 V	' P	Pass

Page Number : 140 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM1900 f	or CH66	1		Temperature	:	23~25°C	C	
Test Mode	:	EDGE clas	s 8 Link (8PSK)		Relative Hun	nidity :	42~58%	,)	
Test Engine	eer :	Lewis He				Polarization	tal			
Remark :	,	Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB b	oelow limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Po	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3763	-54.8	, , ,	-41.84	-69.19	-61.47	, ,	8.3	,	H	Pass
5639	-48.2	26 -13	-35.26	-67.71	-55.31	2.71	9.7	6	Н	Pass
7522	-48.0	02 -13	-35.02	-72.72	-57.41	2.42	11.8	31	Н	Pass

Band :	C	SM1900 f	or CH66	1		Temperature	:	23~25°C			
Test Mode	: E	DGE class	s 8 Link (8PSK)		Relative Hum	idity:	42~5	8%		
Test Engine	eer : L	ewis He				Polarization :	al				
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	EIRP (dBm		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
3763	-54.5	8 -13	-41.58	-68.28	-61.21	1.69	8.3	32	V	Pass	
5639	-55.3	8 -13	-42.38	-72.97	-62.43	2.71	9.7	'6	V	Pass	
7522	-50.9	8 -13	-37.98	-74.69	-60.37	2.42	11.8	31	V	Pass	

Page Number : 141 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		GSM1900 f	or CH81	0		Temperature	:	23~25°C			
Test Mode	:	EDGE clas	s 8 Link (8PSK)		Relative Hun	nidity :	42~5	8%		
Test Engine	eer :	Lewis He				Polarization : Horizontal					
Remark :	,	Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	IB below limit	line.	
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
3819	-56.9	95 -13	-43.95	-71.46	-63.63	1.70	8.3	8	Н	Pass	
5730	-45.0	06 -13	-32.06	-64.44	-52.09	2.76	9.79		Н	Pass	
7641	-47.1	19 -13	-34.19	-71.5	-56.69	2.38	11.8	38	Н	Pass	

Band :	G	SM1900 f	or CH81	0		Temperature	:	23~25°C			
Test Mode	: E	DGE class	s 8 Link (8PSK)		Relative Hum	nidity:	42~5	8%		
Test Engine	eer : L	ewis He				Polarization :	:	Vertic	al		
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	EIRP (dBm		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
3819	-56.5	3 -13	-43.53	-70.13	-63.21	1.70	8.3	88	V	Pass	
5730	-54.4	1 -13	-41.41	-72.51	-61.44	2.76	9.7	'9	V	Pass	
7641	-50.8	5 -13	-37.85	-74.51	-60.35	2.38	11.8	88	V	Pass	

Page Number : 142 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	,	WCDMA Ba	and V for	CH4132		Temperature	:	23~25°	С	
Test Mode	:	RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	42~58%	6	
Test Engine	eer :	Lewis He				Polarization	ntal			
Remark :		Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dB	below limit	line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable		X Antenna Polarization		
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
1656	-65.3	, , ,	-52.32	-69.7	-67.05	, ,	4.8	,	Н	Pass
2480	-53.0)5 -13	-40.05	-62.25	-54.96	1.28	5.3	4	Н	Pass
3305	-63.8	30 -13	-50.80	-75.53	-67.25	1.54	7.1	4	Н	Pass

Band :	٧	VCDMA Ba	and V for	CH4132		Temperature	:	23~25°C			
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	42~5	8%		
Test Engine	eer : L	ewis He				Polarization : Vertical					
Remark :	S	Spurious er	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1656	-67.5	2 -13	-54.52	-69.53	-69.25	0.98	4.8	86	V	Pass	
2480	-53.1	0 -13	-40.10	-63.62	-55.01	1.28	5.3	34	V	Pass	
3305	-64.8	7 -13	-51.87	-75.51	-68.32	1.54	7.1	4	V	Pass	

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 143 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	,	WCDMA Ba	and V for	CH4182		Temperature	:	23~25°C		
Test Mode :	:	RMC 12.2k	lbps Link	(QPSK)		Relative Hun	nidity :	42~58%		
Test Engine	er:	Lewis He				Polarization	I			
Remark :	,	Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB be	low limit	line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Pola	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
1672	-62.2	, , ,	-49.28	-66.14	-63.96	, ,	4.8	,	H	Pass
2509	-50.9	99 -13	-37.99	-60.51	-52.95	1.29	5.4	1	Н	Pass
3345	-63.5	7 -13 -50.57 -75.48 -67.1				1.56	7.3	2	Н	Pass

Band :	V	VCDMA Ba	and V for	CH4182		Temperature	:	23~25°C			
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	42~58	3%		
Test Engine	eer : L	ewis He				Polarization : Vertical					
Remark :	S	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1672	-63.9	0 -13	-50.90	-66.44	-65.58	0.99	4.8	2	V	Pass	
2509	-53.2	2 -13	-40.22	-63.52	-55.18	1.29	5.4	1	V	Pass	
3345	-64.7	2 -13	-51.72	-75.58	-68.33	1.56	7.3	2	V	Pass	

Page Number : 144 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :	/	WCDMA Ba	and V for	CH4233		Temperature	:	23~25°C		
Test Mode	: I	RMC 12.2K	lbps Link	(QPSK)		Relative Hun	nidity :	42~58%		
Test Engine	eer : l	_ewis He				Polarization	:	Horizontal		
Remark :	Ş	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20dB below li	mit line.	
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	tenna Polarizati	on Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE			
1696	-60.4	9 -13	-47.49	-64.85	-62.09	1.00	4.7	'5 H	Pass	
2536	-51.3	88 -13	-38.38	-60.94	-53.36	1.30	5.4	13 H	Pass	
3386	-63.7	'4 -13	-50.74	-75.82	-67.52	1.57	7.5	50 H	Pass	

Band :	V	VCDMA Ba	and V for	CH4233		Temperature	:	23~25°C		
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	idity :	42~58	3%	
Test Engine	eer : L	ewis He				Polarization : Vertical				
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency (MHz)	ERP		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result
1696	-65.0	3 -13	-52.03	-68.16	-66.63	1.00	4.7	'5	V	Pass
2536	-52.2	3 -13	-39.23	-62.28	-54.21	1.30	5.4	3	V	Pass
3386	-63.0	0 -13	-50.00	-74.55	-66.78	1.57	7.5	0	V	Pass

Page Number : 145 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		WCDMA B	and IV fo	r CH1312		Temperature	:	23~25	°C		
Test Mode	:	RMC 12.2	Kbps Link	(QPSK)		Relative Hun	nidity :	42~58	%		
Test Engine	eer :	Lewis He				Polarization	:	Horizo	orizontal		
Remark :		Spurious e	missions	within 30-1	1000MHz	were found n	nore tha	n 20dB	B below limit	line.	
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna F	Polarization	Result	
(MHz)	/ dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)		
(1411712)	(ubi	ii) (ubiii)	(ub)	(ubiii)	(ubili)	(ub)	(uE)1 <i>)</i>	(n/v)		
3427	-58.4	48 -13	-45.48	-70.09	-64.58	1.58	7.6	8	Н	Pass	
5142	-57.3	35 -13	-44.35	-76.9	-64.63	2.42	9.7	0	Н	Pass	
8565	-49.5	53 -13	-36.53	-75.88	-59.67	2.39	12.	53	Н	Pass	

Band :	V	VCDMA Ba	and IV fo	r CH1312		Temperature	:	23~25°C		
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	42~58	8%	
Test Engine	eer : L	ewis He				Polarization	al			
Remark :	S	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBm) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3427	-62.48	8 -13	-49.48	-74.21	-68.58	1.58	7.6	8	V	Pass
5142	-59.83	3 -13	-46.83	-77.53	-67.11	2.42	9.7	0	V	Pass
8565	-53.4	4 -13	-40.44	-77.79	-63.58	2.39	12.	53	V	Pass

Page Number : 146 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		WC	DMA Ba	and IV fo	CH1413		Temperature	:	23~2	5°C	
Test Mode	:	RM	C 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	42~5	8%	
Test Engine	eer :	Lev	vis He				Polarization : Horizontal				
Remark :		Spu	ırious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBı	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3462	-53.	97	-13	-40.97	-66.16	-60.21	1.59	7.8	3	Н	Pass
5198	-49.	93	-13	-36.93	-69.26	-57.18	2.45	9.7	0	Н	Pass
6934	-53.	16	-13	-40.16	-75.85	-61.27	2.61	10.	72	Н	Pass
8656	-43.	39	-13	-30.39	-70.48	-53.54	2.41	12.	56	Н	Pass

Band :	,	WCDMA B	and IV fo	r CH1413		Temperature	:	23~25°C	
Test Mode	:	RMC 12.2k	Kbps Link	(QPSK)		Relative Hum	nidity :	42~58%	
Test Engine	eer :	Lewis He				Polarization :		Vertical	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dB belov	v limit line.
Frequency	EIRI	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polariz	ation Result
			Limit	Reading	Power	loss	Ga	in	
(MHz)	(dBn	n) (dBm)		Reading (dBm)	Power (dBm)		Ga (dE		V)
(MHz) 3462	(dBn	, (,		•				Bi) (H/\	
		34 -13	(dB)	(dBm)	(dBm)	(dB)	(dE	3 V	Pass
3462	-59.3	34 -13 77 -13	(dB) -46.34	(dBm) -72.05	(dBm) -65.58	(dB)	(dE 7.8	ii) (H/\dagger) (33 \text{V} \text{0} \text{V}	Pass Pass

Page Number : 147 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		WCDMA E	Band IV fo	r CH1513		Temperature	:	23~25°C		
Test Mode :		RMC 12.2	Kbps Link	(QPSK)		Relative Hun	nidity:	42~58%		
Test Engine	er:	Lewis He				Polarization : Horizontal				
Remark :		Spurious 6	emissions	within 30-1	1000MHz	were found m	ore tha	n 20dB bel	ow limit	: line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	enna Polar	ization	Result	
(MHz)	(dBr	n) (dBm	Limit) (dB)	Reading (dBm)	Power (dBm)	loss (dB)	in Bi) (H	H/V)		
3504	-55.8	31 -13	-42.81	-68.28	-62.21	1.61	8.0	0	Н	Pass
5261	-55.2	26 -13	-42.26	-73.97	-62.47	2.49	9.7	0	Н	Pass
7010	-54.2	24 -13	-41.24	-77.18	-62.47	2.59	10.8	32	Н	Pass
8768	-47.4	42 -13	-34.42	-75.09	-57.59	2.43	12.61 H			Pass

									1
Band :		WCDMA	Band IV fo	r CH1513		Temperature	:	23~25°C	
Test Mode	:	RMC 12.2	2Kbps Link	(QPSK)		Relative Hun	nidity:	42~58%	
Test Engine	eer :	Lewis He				Polarization			
Remark :		Spurious	emissions	within 30-1	1000MHz	were found n	nore tha	n 20dB below	limit line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna Polariza	tion Result
			Limit	Reading	Power	loss	Ga	in	
(MHz)	(dBr	n) (dBm) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi) (H/V)	
3504	-61.	18 -13	-48.18	-74.46	-67.58	1.61	8.0	00 V	Pass
5261	-58.4	48 -13	-45.48	-77.55	-65.69	2.49	9.7	70 V	Pass
7010	-55.3	34 -13	-42.34	-78.27	-63.57	2.59	10.	82 V	Pass
8768	-52.4	41 -13	-39.41	-77.57	-62.58	2.43	12.	Pass	

Page Number : 148 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		WCDMA Ba	and II for	CH9262		Temperature	:	23~25	°C		
Test Mode	:	RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	42~58	2~58%		
Test Engine	eer :	Lewis He				Polarization	:	Horizo	ntal		
Remark :		Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dB	below limit	line.	
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)		
3707	-58.8	31 -13	-45.81	-72.9	-65.39	1.67	8.2	:5	Н	Pass	
5562	-52.8	30 -13	-39.80	-72.2	-59.86	2.66	9.7	2	Н	Pass	
7410	-50.9	96 -13	-37.96	-75.64	-60.12	2.46	11.0	62	Н	Pass	

Band :	V	VCDMA Ba	and II for	CH9262		Temperature	:	23~25°C		
Test Mode	: F	RMC 12.2K	lbps Link	(QPSK)		Relative Hum	nidity:	42~5	8%	
Test Engine	eer : L	ewis He				Polarization :	al			
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency (MHz)	EIRP		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result
3707	-53.0	5 -13	-40.05	-67.11	-59.63	1.67	8.2	25	V	Pass
5562	-54.4	1 -13	-41.41	-72.53	-61.47	2.66	9.7	'2	V	Pass
7410	-48.8	7 -13	-35.87	-72.52	-58.03	2.46	11.6	62	V	Pass

Page Number : 149 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		WCDMA B	and II for	CH9400		Temperature	:	23~2	5°C	
Test Mode	:	RMC 12.2k	(bps Link	(QPSK)		Relative Hum	nidity :	42~5	8%	
Test Engine	eer :	Lewis He				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
/ MU= \	/ dD=	m \	Limit	Reading	Power	loss	Ga		/UA/\	
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	1)	(H/V)	
3756	-57.9	95 -13	-44.95	-72.48	-64.57	1.68	8.3	1	Н	Pass
5639	-52.3	31 -13	-39.31	-71.31	-59.36	2.71	9.7	6	Н	Pass
7515	-48.4	14 -13	-35.44	-72.88	-57.82	2.42	11.8	31	Н	Pass

Band :	/	WCDMA Ba	and II for	CH9400		Temperature	:	23~2	5°C		
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	42~5	8%		
Test Engine	eer : l	_ewis He				Polarization		Vertic	/ertical		
Remark :	Ş	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	EIRF	P Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant		Polarization	Result	
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
3756	-54.6	66 -13	-41.66	-68.39	-61.28	1.68	8.3	1	V	Pass	
5639	-54.0	9 -13	-41.09	-71.6	-61.14	2.71	9.7	6	V	Pass	
7515	-47.8	30 -13	-34.80	-71.66	-57.18	2.42	11.8	31	V	Pass	

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 150 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

Band :		WCDMA	Band II fo	or CH9538		Temperatur	е:	23~25°C	
Test Mode	:	RMC 12	2Kbps Lir	ık (QPSK)		Relative Hu	midity:	42~58%	
Test Engine	eer :	Lewis He	e			Polarization	n :	Horizontal	
Remark :		Spurious	emission	s within 30-	-1000MHz	were found	more tha	n 20dB below lii	mit line.
Frequency	EIR	P Lim		SPA	S.G.	TX Cable		tenna Polarization	on Result
(MHz)	(dBr	n) (dBr	Limit n) (dB)	Reading (dBm)	Power (dBm)		Ga (dE		
3812	-54.0	60 -13	-41.60	-69.1	-61.27	1.70	8.3	37 H	Pass
5723	-50.2	28 -13	-37.28	-69.68	-57.32	2.75	9.7	'9 H	Pass
7627	-43.4	44 -13	-30.44	-67.62	-52.93	2.39	11.8	88 H	Pass
9531	-48.	74 -13	-35.74	-77.62	-58.63	2.60	12.	48 H	Pass

					1				
Band :		WCDMA B	and II for	CH9538		Temperature	:	23~25°C	
Test Mode	:	RMC 12.2	RMC 12.2Kbps Link (QPSK)			Relative Hum	nidity:	42~58%	
Test Engine	eer :	Lewis He				Polarization	:	Vertical	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20dB below lim	nit line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	tenna Polarizatio	n Result
			Limit	Reading	Power	loss	Ga	in	
(MHz)	(dBr	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi) (H/V)	
3812	-50.	19 -13	-37.19	-63.91	-56.86	1.70	8.3	37 V	Pass
5723	-49.9	99 -13	-36.99	-68.31	-57.03	2.75	9.7	79 V	Pass
7627	-41.9	98 -13	-28.98	-65.25	-51.47	2.39	11.8	88 V	Pass
9531	-50.4	43 -13	-37.43	-75.69	-60.32	2.60	12.	48 V	Pass

Page Number : 151 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

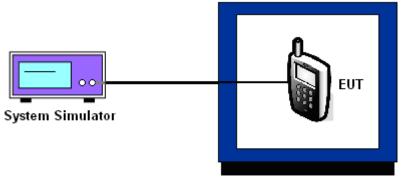
- 1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- The power supply voltage to the EUT was varied from BEP to 115% of the nominal value 3. measured at the input to the EUT.
- 4. The variation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

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 152 of 159 Report Issued Date: May 11, 2015

Report No.: FG531001A

Report Version : Rev. 01

3.8.5 Test Setup



Thermal Chamber

Report No.: FG531001A

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 153 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel:	189
Limit (ppm) :	2.5	Frequency:	836.4 MHz

	GPRS	class 8	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	25	0.0096	28	0.0060	
40	14	0.0036	22	0.0012	
30	27	0.0120	-6	0.0347	
20(Ref.)	17	0.0000	23	0.0000	
10	27	0.0120	28	0.0060	PASS
0	10	0.0084	10	0.0155	
-10	-13	0.0359	-10	0.0395	
-20	17	0.0000	-11	0.0407	
-30	19	0.0024	27	0.0048	

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

	GPRS class 8		EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	28	0.0229	26	0.0053	
40	24	0.0207	13	0.0016	
30	28	0.0229	-8	0.0128	
20(Ref.)	-15	0.0000	16	0.0000	
10	14	0.0154	17	0.0005	PASS
0	-11	0.0021	11	0.0027	
-10	13	0.0149	-8	0.0128	
-20	18	0.0176	18	0.0011	
-30	13	0.0149	-11	0.0144	

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 154 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

- ,	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	19	0.0024	
40	-11	0.0335	
30	26	0.0108	
20(Ref.)	17	0.0000	
10	-16	0.0395	PASS
0	18	0.0012	
-10	21	0.0048	
-20	-12	0.0347	
-30	17	0.0000	

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

	RMC 12	2.2Kbps	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	28	0.0104	
40	15	0.0029	
30	-12	0.0127	
20(Ref.)	10	0.0000	
10	-19	0.0167	PASS
0	28	0.0104	
-10	-11	0.0121	
-20	22	0.0069	
-30	-29	0.0225	

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 155 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

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

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	-10	0.0037	
40	-19	0.0011	
30	18	0.0186	
20(Ref.)	-17	0.0000	
10	25	0.0223	PASS
0	-15	0.0011	
-10	17	0.0181	
-20	10	0.0144	
-30	18	0.0186	

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

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 156 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GPRS class 8	4.2	24	0.0084		PASS
		3.8	13	0.0048		
		BEP	11	0.0072	2.5	
	EDGE class 8	4.2	-12	0.0418	2.5	
		3.8	17	0.0072		
		BEP	13	0.0120		
	GPRS class 8	4.2	-17	0.0011		
GSM 1900 CH661		3.8	23	0.0202		
		BEP	11	0.0138	(Note 2.)	
	EDGE class 8	4.2	18	0.0011	(Note 3.)	
		3.8	-12	0.0149		
		BEP	15	0.0005		
WCDMA Band V CH4182	RMC 12.2Kbps	4.2	-14	0.0371		
		3.8	15	0.0024	2.5	
		BEP	13	0.0048		
WCDMA Band IV CH1413	RMC 12.2Kbps	4.2	26	0.0092		
		3.8	-14	0.0139	(Note 3.)	
		BEP	12	0.0012		
WCDMA Band II CH9400	RMC 12.2Kbps	4.2	-12	0.0027		
		3.8	14	0.0165	(Note 3.)	
	12.211000	BEP	26	0.0229		

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.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 157 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Oct. 28, 2014	Mar. 26, 2015~ Apr. 08, 2015	Oct. 27, 2015	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV30	101338	9kHz~30GHz	May 04, 2014	Mar. 26, 2015~ Apr. 08, 2015	May 03, 2015	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 25, 2014	Mar. 26, 2015~ Apr. 08, 2015	Oct. 24, 2015	Conducted (TH01-KS)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 24, 2014	Apr. 25, 2015	Nov. 23, 2015	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 20, 2014	Apr. 25, 2015	Nov. 19, 2015	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D	35413	30MHz~1GHz	Oct. 24, 2014	Apr. 25, 2015	Oct. 23, 2015	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 03, 2014	Apr. 25, 2015	Oct. 02, 2015	Radiation (03CH10-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Oct. 02, 2014	Apr. 25, 2015	Oct. 01, 2015	Radiation (03CH10-HY)
Hygrometer	TECPEL	DTM-303B	TP140320	N/A	Nov. 17, 2014	Apr. 25, 2015	Nov. 16, 2015	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHZ	Oct. 14, 2014	Apr. 25, 2015	Oct. 13, 2015	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY249564 MY249524 MY283184	25GHz~40GHz	Nov. 06, 2014	Apr. 25, 2015	Nov. 05, 2015	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY249564 MY249524 MY283184	30MHz~1GHz	Nov. 06, 2014	Apr. 25, 2015	Nov. 05, 2015	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY249564 MY249524 MY283184	1GHz~25GHz	Nov. 06, 2014	Apr. 25, 2015	Nov. 05, 2015	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 25, 2015	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 25, 2015	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0-360 degree	N/A	Apr. 25, 2015	N/A	Radiation (03CH10-HY)

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 158 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	4.9dB	
Confidence of 95% (U = 2Uc(y))	4.906	

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUVIVOLTE Page Number : 159 of 159
Report Issued Date : May 11, 2015
Report Version : Rev. 01