

Report No.: FG3D3103

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : Life Play S MARKETING NAME : Life Play S

FCC ID : YHLBLULIFEPLAYS

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 Dec. 31, 2013 and testing was completed on Jan. 13, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown to be compliant with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 1 of 113
Report Issued Date : Jan. 22, 2014

Testing Laboratory
2353



TABLE OF CONTENTS

RE	EVISIO	N HISTORY	3
		RY OF TEST RESULT	
1		ERAL DESCRIPTION	
	1.1	Applicant	
	1.2	Manufacturer	
	1.3	Feature of Equipment Under Test	
	1.4	Product Specification of Equipment Under Test	
	1.5 1.6	Modification of EUT Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	
	1.7	Testing Site	
	1.7	Applied Standards	
		••	
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	9
	2.1	Test Mode	9
	2.2	Connection Diagram of Test System	12
	2.3	Support Unit used in test configuration and system	13
	2.4	Measurement Results Explanation Example	13
3	TEST	RESULT	14
	3.1	Conducted Output Power Measurement	14
	3.2	Peak-to-Average Ratio	
	3.3	Effective Radiated Power and Effective Isotropic Radiated Power Measurement	26
	3.4	99% Occupied Bandwidth and 26dB Bandwidth Measurement	
	3.5	Band Edge Measurement	56
	3.6	Conducted Spurious Emission Measurement	71
	3.7	Field Strength of Spurious Radiation Measurement	90
	3.8	Frequency Stability Measurement	106
4	LIST	OF MEASURING EQUIPMENT	112
5	UNC	ERTAINTY OF EVALUATION	113

APPENDIX A. SETUP PHOTOGRAPHS

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Report No.: FG3D3103

Report 100ded Bate : 0an: 22, 20



REVISION HISTORY

Report No.: FG3D3103

: 3 of 113

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG3D3103	Rev. 01	Initial issue of report	Jan. 22, 2014



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d) §27.50(d)(5)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.4	\$2.1049 \$22.917(a) \$24.238(b) \$27.53(g)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	\$2.1051 \$22.917(a) \$24.238(a) \$27.53(g) Band Edge Measurement		< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(g)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 11.41 dB at 3465.000 MHz
3.8	§2.1055 §22.355 §24.235 §27.54	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 4 of 113

Report No.: FG3D3103

Report Issued Date : Jan. 22, 2014
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

TINNO MOBILE

4/F., H-3 Building, OCT Eastern Industrial Park. NO.1 Xiangshan East Road, Nan Shan District, Shenzhen, P.R.CHINA

1.3 Feature of Equipment Under Test

Product Feature							
Equipment	Mobile phone						
Brand Name	BLU						
Model Name	Life Play S						
Marketing Name	Life Play S						
FCC ID	YHLBLULIFEPLAYS						
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE						
HW Version	V1.1						
SW Version	BLU_L150U_V01_GENERIC						
EUT Stage	Identical Prototype						

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 (SHENZHEN) INC.
TEL: 86-755- 3320-2398

FCC ID: YHLBLULIFEPLAYS

Page Number : 5 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

Report No.: FG3D3103



1.4 Product Specification of Equipment Under Test

Product Spec	Product Specification subjective to this standard						
	GSM850: 824.2 MHz ~ 848.8 MHz						
	GSM1900: 1850.2 MHz ~ 1909.8MHz						
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz						
	WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz						
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz						
	GSM850: 869.2 MHz ~ 893.8 MHz						
	GSM1900: 1930.2 MHz ~ 1989.8 MHz						
Rx Frequency	WCDMA Band V: 871.4 MHz ~ 891.6 MHz						
	WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz						
	WCDMA Band II : 1932.4 MHz ~ 1987.6 MHz						
	GSM850 : 32.60 dBm						
	GSM1900 : 29.79 dBm						
Maximum Output Power to Antenna	WCDMA Band V : 23.19 dBm						
	WCDMA Band IV: 23.15 dBm						
	WCDMA Band II : 21.97 dBm						
Antenna Type	PIFA Antenna						
	GSM: GMSK						
	GPRS: GMSK						
	EDGE: GMSK / 8PSK						
Type of Modulation	WCDMA: QPSK (Uplink)						
	HSDPA: QPSK (Uplink)						
	HSUPA: QPSK (Uplink)						
	HSPA+: 16QAM (Downlink Only)						

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 6 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



1.5 Modification of EUT

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

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.6278	0.02 ppm	248KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1826	0.02 ppm	248KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0722	0.01 ppm	4M18F9W
Part 24	GSM1900 GSM	GMSK	1.9779	0.02 ppm	248KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.9276	0.02 ppm	248KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.4062	0.01 ppm	4M18F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.4111	0.01 ppm	4M18F9W

1.7 Testing Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.						
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.						
	TEL: +86-755-3320-2398						
Took Site No	Sporton Site No.		FCC Registration No.				
Test Site No.	TH01-SZ	03CH01-SZ	831040				

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	No. 101, Complex Building C, Guanlong Village, Xili Town,					
Test Site Location	Nanshan District, Shenzhen, Guangdong, P.R.C.					
rest site Location	TEL:+86-755-8637-9589					
	FAX: +86-755-8637-9595					
Toot Site No	Sporton Site No.					
Test Site No.	OTA01-SZ					

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 7 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

1.8 Applied 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 v02r01

Remark:

FCC ID: YHLBLULIFEPLAYS

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398

Report Issued D

Page Number : 8 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

Report No.: FG3D3103



2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was rotated on three test planes to find out the worst emission (Y plane).

Frequency range investigated for radiated emission is as follows:

- 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
- 2. 30 MHz to 18000 MHz for WCDMA Band IV.
- 3. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

	Test Modes								
Band	Radiated TCs	Conducted TCs							
CCM 050	■ GSM Link	■ GSM Link							
GSM 850	■ EDGE class 8 Link	■ EDGE class 8 Link							
CSM 4000	■ GSM Link	■ GSM Link							
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link							
WCDMA Band V	RMC 12.2Kbps Link	■ RMC 12.2Kbps Link							
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link							
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link							

Note: The maximum power levels are GSM mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, RMC 12.2Kbps mode for WCDMA band IV, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 9 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



FCC RF Test Report

The conducted power tables are as follows:

For SIM1 Card:

Conducted Power (*Unit: dBm)									
Band		GSM850		GSM1900					
Channel	128	189	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8			
GSM	32.54	<mark>32.60</mark>	32.59	<mark>29.79</mark>	29.59	29.43			
GPRS class 8	32.53	32.59	32.58	29.78	29.57	29.40			
GPRS class 10	31.08	31.12	31.11	27.77	27.60	27.48			
GPRS class 11	29.15	29.16	29.16	25.76	25.65	25.54			
GPRS class 12	28.21	28.24	28.23	24.84	24.72	24.63			
EGPRS class 8	27.47	27.44	27.18	26.03	25.71	25.28			
EGPRS class 10	25.01	25.01	24.79	23.88	23.48	23.12			
EGPRS class 11	22.81	22.80	22.59	21.66	21.23	20.90			
EGPRS class 12	21.67	21.66	21.44	20.43	20.24	19.77			

Conducted Power (*Unit: dBm)										
Band WCDMA Band V				WCDMA Band II			WCDMA Band IV			
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
RMC 12.2K	23.15	<mark>23.19</mark>	23.14	21.95	<mark>21.97</mark>	21.58	22.85	22.99	<mark>23.15</mark>	
HSDPA Subtest-1	22.12	22.14	22.11	20.94	20.98	20.57	21.89	22.00	22.17	
HSDPA Subtest-2	22.13	22.16	22.12	20.95	21.00	20.61	21.89	22.02	22.16	
HSDPA Subtest-3	21.67	21.68	21.64	20.50	20.51	20.17	21.44	21.53	21.70	
HSDPA Subtest-4	21.66	21.67	21.62	20.47	20.48	20.14	21.40	21.54	21.67	
HSUPA Subtest-1	20.64	20.65	20.61	19.45	19.46	19.11	20.40	20.54	20.70	
HSUPA Subtest-2	19.66	19.67	19.63	18.49	18.53	18.17	19.40	19.54	19.71	
HSUPA Subtest-3	20.65	20.66	20.62	19.48	19.50	19.13	20.43	20.56	20.71	
HSUPA Subtest-4	20.15	20.17	20.12	18.96	19.00	18.61	19.90	20.04	20.21	
HSUPA Subtest-5	22.16	22.17	22.13	20.56	20.59	20.22	21.86	22.01	22.20	

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 10 of 113 Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103



For SIM2 Card:

Conducted Power (*Unit: dBm)								
Band	Band GSM850							
Channel	128	189	251	512	661	810		
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8		
GSM	32.54	<mark>32.59</mark>	32.57	<mark>29.59</mark>	29.44	29.42		
GPRS class 8	32.49	32.54	32.51	29.50	29.35	29.34		
GPRS class 10	31.05	31.09	31.05	27.51	27.40	27.44		
GPRS class 11	29.12	29.15	29.14	25.50	25.44	25.49		
GPRS class 12	28.21	28.23	28.22	24.59	24.55	24.58		
EGPRS class 8	27.47	27.38	27.18	25.75	25.54	25.34		
EGPRS class 10	25.04	24.98	24.80	23.58	23.31	23.13		
EGPRS class 11	22.80	22.74	22.59	21.43	21.14	20.96		
EGPRS class 12	21.67	21.62	21.45	20.16	20.12	19.88		

		Condu	ıcted Po	wer (*Un	it: dBm)					
Band	WCDMA Band V			WC	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	
RMC 12.2K	23.10	<mark>23.16</mark>	23.05	21.64	<mark>21.80</mark>	21.57	22.86	22.97	<mark>23.06</mark>	
HSDPA Subtest-1	22.07	22.13	22.05	20.93	20.92	20.58	21.91	21.98	22.07	
HSDPA Subtest-2	22.06	22.14	22.04	20.95	20.94	20.61	21.89	21.99	22.08	
HSDPA Subtest-3	21.59	21.67	21.58	20.44	20.49	20.16	21.42	21.53	21.62	
HSDPA Subtest-4	21.57	21.65	21.57	20.45	20.46	20.14	21.39	21.51	21.58	
HSUPA Subtest-1	20.46	20.56	20.45	19.40	19.45	19.10	20.31	20.43	20.45	
HSUPA Subtest-2	19.59	19.66	19.55	18.46	18.52	18.16	19.44	19.49	19.61	
HSUPA Subtest-3	20.53	20.62	20.49	19.42	19.47	19.13	20.34	20.46	20.52	
HSUPA Subtest-4	20.09	20.19	20.11	18.93	18.98	18.61	19.90	19.95	20.10	
HSUPA Subtest-5	21.03	21.07	21.02	20.97	20.57	20.60	20.78	20.99	20.86	

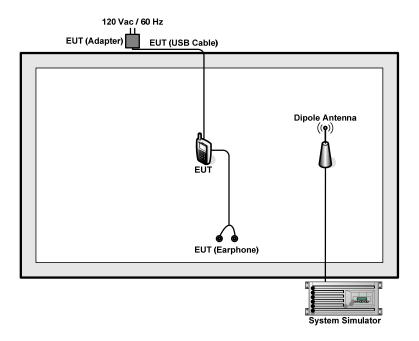
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 11 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



Report No.: FG3D3103

2.2 Connection Diagram of Test System



TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 12 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
3.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.5 dB and 10dB attenuator.

Offset
$$(dB) = RF$$
 cable $loss(dB) + attenuator$ factor (dB) .
= 7.5 + 10 = 17.5 (dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 13 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



3 **Test Result**

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Report No.: FG3D3103

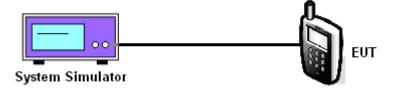
3.1.2 **Measuring Instruments**

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 base station.
- 2. Set EUT at maximum power through base station.
- 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 GSM and WCDMA modes.

3.1.4 Test Setup



Page Number : 14 of 113 TEL: 86-755-3320-2398 Report Issued Date: Jan. 22, 2014 FCC ID: YHLBLULIFEPLAYS Report Version : Rev. 01



3.1.5 Test Result of Conducted Output Power

	Cellular Band									
Modes	GSM850 (GSM)			GSM85	60 (EDGE o	class 8)	WCDMA Band V (RMC 12.2Kbps)			
Channel	128 (Low)	189 (Mid)	251 (High)					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)	32.54	32.60	32.59	27.47	27.44	27.18	23.15	23.19	23.14	
Conducted Power (Watts)	1.79	1.82	1.82	0.56	0.55	0.52	0.21	0.21	0.21	

	PCS Band									
Modes	GSM1900 (GSM)			GSM19	GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)				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)	29.79	29.59	29.43	26.03	25.71	25.28	21.95	21.97	21.58	
Conducted Power (Watts)	0.95	0.91	0.88	0.40	0.37	0.34	0.16	0.16	0.14	

	AWS Band								
Modes	v	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low) 1413 (Mid) 1513 (High)								
Frequency (MHz)	1712.4	1712.4 1732.6							
Conducted Power (dBm)	22.85	22.99	23.15						
Conducted Power (Watts)	0.19	0.20	0.21						

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

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 15 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



3.2 Peak-to-Average Ratio

Description of the PAR Measurement 3.2.1

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.

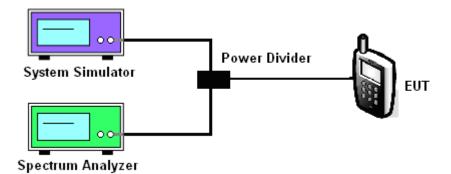
3.2.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
- 2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in 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 synchronized with the spectrum analyzer.

Report No.: FG3D3103

- 3. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



SPORTON INTERNATIONAL (SHENZHEN) INC. Page Number : 16 of 113 Report Issued Date: Jan. 22, 2014 TEL: 86-755-3320-2398 Report Version : Rev. 01

FCC ID: YHLBLULIFEPLAYS

3.2.5 Test Result of Peak-to-Average Ratio

	PCS Band									
Modes	GSM1900 (GSM)			GSM190	00 (EDGE	class 8)		CDMA Band II MC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6	
Peak-to-Average Ratio (dB)	0.29	0.30	0.30	2.79	2.88	2.81	2.92	3.12	3.00	

Report No.: FG3D3103

AWS Band								
Modes	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low) 1413 (Mid) 1513 (High)							
Frequency (MHz)	1712.4	1732.6	1752.6					
Peak-to-Average Ratio (dB)	3.00	3.00 2.84 3.04						

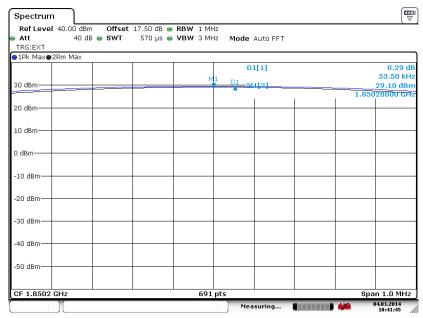
SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 17 of 113TEL: 86-755- 3320-2398Report Issued Date: Jan. 22, 2014FCC ID: YHLBLULIFEPLAYSReport Version: Rev. 01



Report No.: FG3D3103

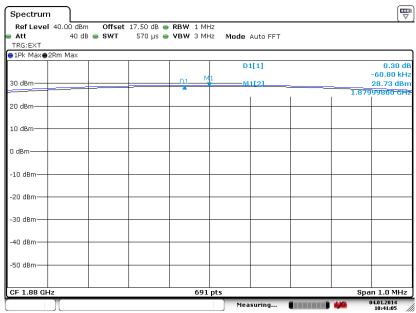
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

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



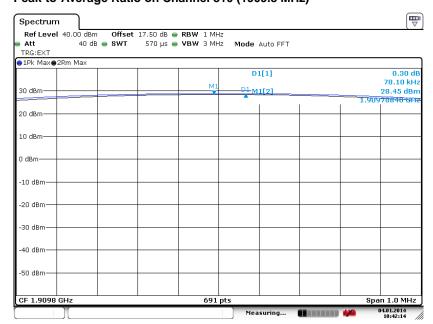
Date: 4.JAN.2014 10:41:45

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



Date: 4.JAN.2014 10:41:05

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



Date: 4.JAN.2014 10:42:15

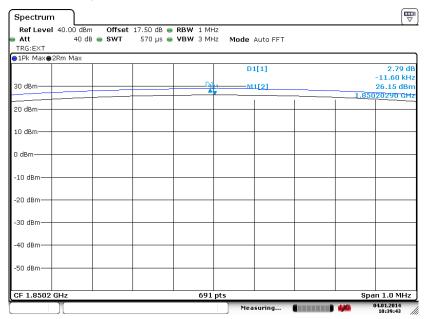
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 19 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



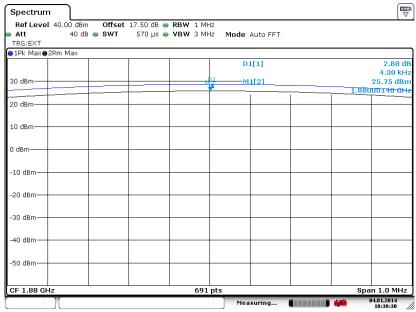
GSM 1900 EDGE class 8 Link (8PSK) Band: Test Mode:

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



Date: 4.JAN.2014 10:39:44

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



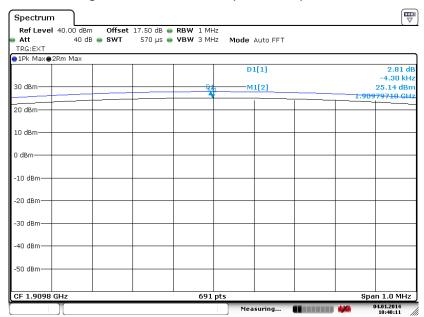
Date: 4.JAN.2014 10:38:31

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 20 of 113 Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

Report No.: FG3D3103

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



Date: 4.JAN.2014 10:40:11

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 21 of 113
Report Issued Date : Jan. 22, 2014

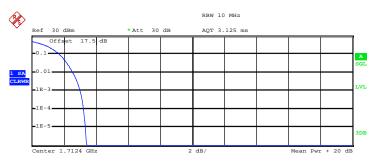


FCC RF Test Report

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

Report No.: FG3D3103

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



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

Peak 21.22 dBm Crest 3.41 dB 10 % 1.72 dB 1 % 2.56 dB .1 % 3.00 dB

17.81 dBm

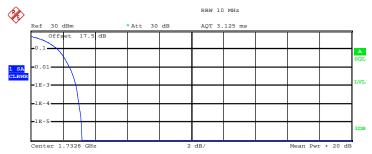
3.24 dB

Mean

.01 %

Date: 3.JAN.2014 22:54:36

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



Complementary Cumulative Distribution Function (100000 samples) $\mbox{Trace } \ \, 1 \label{eq:Trace}$

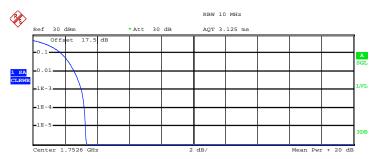
Peak 22.21 dBm Crest 3.17 dB 10 % 1.68 dB 1 % 2.44 dB .1 % 2.84 dB

19.04 dBm

Mean

Date: 3.JAN.2014 22:56:03

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



Complementary Cumulative Distribution Function (100000 samples) $\mbox{Trace } \ \, 1 \label{eq:Trace}$

Mean 19.94 dBm Peak 23.26 dBm Crest 3.32 dB

10 % 1.76 dB 1 % 2.60 dB .1 % 3.04 dB .01 % 3.20 dB

Date: 3.JAN.2014 22:55:14

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 23 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

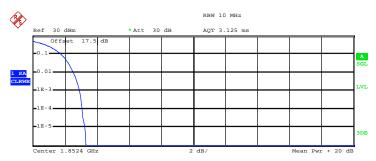


FCC RF Test Report

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

Report No.: FG3D3103

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



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

Mean 21.22 dBm
Peak 24.53 dBm
Crest 3.31 dB

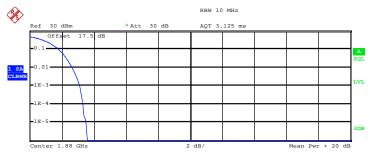
10 % 1.76 dB
1 % 2.52 dB
.1 % 2.92 dB

3.08 dB

Date: 3.JAN.2014 22:34:20

.01 %

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



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

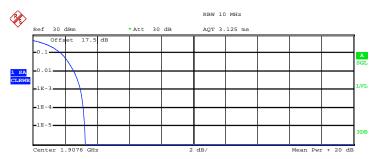
Peak 24.96 dBm Crest 3.57 dB 10 % 1.80 dB 1 % 2.64 dB .1 % 3.12 dB .01 % 3.32 dB

21.38 dBm

Mean

Date: 3.JAN.2014 22:33:18

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



Complementary Cumulative Distribution Function (100000 samples) $\mbox{Trace } \ \, 1 \label{eq:Trace}$

Mean 21.12 dBm Peak 24.39 dBm Crest 3.27 dB

10 % 1.76 dB 1 % 2.56 dB .1 % 3.00 dB .01 % 3.16 dB

Date: 3.JAN.2014 22:33:41

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 25 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

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 v02r01. 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).

Report No.: FG3D3103

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
- 2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
 UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
- 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 6. Taking the record of maximum ERP/EIRP.
- 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. The conducted power at the terminal of the dipole antenna is measured.
- 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 10. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

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

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

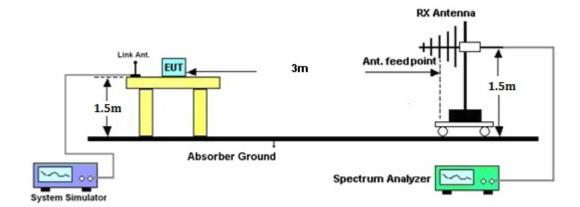
Page Number : 26 of 113
Report Issued Date : Jan. 22, 2014

FCC ID : YHLBLULIFEPLAYS Report Version : Rev. 01



Report No.: FG3D3103

3.3.4 Test Setup



TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 27 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01



3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
824.20	-19.06	-48.12	0.00	-1.08	27.98	0.6278			
836.40	-19.84	-48.28	0.00	-0.93	27.51	0.5635			
848.80	-21.04	-48.35	0.00	-0.76	26.55	0.4517			
		Ve	ertical Polarizati	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
824.20	-32.66	-47.97	0.00	-1.08	14.23	0.0265			
836.40	-33.48	-48.01	0.00	-0.93	13.60	0.0229			
848.80	-34.87	-48.05	0.00	-0.76	12.42	0.0175			

	GSM850 (EDGE class 8) Radiated Power ERP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
824.20	-24.42	-48.12	0.00	-1.08	22.62	0.1826			
836.40	-25.03	-48.28	0.00	-0.93	22.32	0.1705			
848.80	-26.10	-48.35	0.00	-0.76	21.49	0.1408			
		Ve	ertical Polarizati	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
824.20	-38.51	-47.97	0.00	-1.08	8.38	0.0069			
836.40	-38.90	-48.01	0.00	-0.93	8.18	0.0066			
848.80	-40.02	-48.05	0.00	-0.76	7.27	0.0053			

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 28 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP									
	Horizontal Polarization									
Frequency	Rt	Rs	Ps	Gs	ERP	ERP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
826.40	-28.46	-48.12	0.00	-1.08	18.59	0.0722				
836.40	-29.09	-48.28	0.00	-0.93	18.26	0.0670				
846.60	-29.35	-48.35	0.00	-0.76	18.24	0.0667				
		Ve	ertical Polarizati	on						
Frequency	Rt	Rs	Ps	Gs	ERP	ERP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
826.40	-42.58	-47.97	0.00	-1.08	4.31	0.0027				
836.40	-43.04	-48.01	0.00	-0.93	4.04	0.0025				
846.60	-43.37	-48.05	0.00	-0.76	3.92	0.0025				

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 29 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP								
		Hoi	rizontal Polariza	tion					
Frequency	ency Rt Rs Ps Gs EIRP EIRP								
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1850.20	-20.92	-51.88	0.00	1.96	32.92	1.9594			
1880.00	-22.14	-52.99	0.00	2.00	32.85	1.9288			
1909.80	-23.54	-54.28	0.00	1.98	32.72	1.8690			
		Ve	ertical Polarizati	on					
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1850.20	-21.13	-52.13	0.00	1.96	32.96	1.9779			
1880.00	-22.26	-53.17	0.00	2.00	32.91	1.9561			
1909.80	-23.29	-54.13	0.00	1.98	32.82	1.9136			

GSM1900 (EDGE class 8) Radiated Power EIRP						
		Ног	rizontal Polariza	tion		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-24.33	-51.88	0.00	1.96	29.51	0.8938
1880.00	-25.71	-52.99	0.00	2.00	29.28	0.8465
1909.80	-27.76	-54.28	0.00	1.98	28.50	0.7082
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-24.42	-52.13	0.00	1.96	29.67	0.9276
1880.00	-25.78	-53.17	0.00	2.00	29.39	0.8693
1909.80	-27.48	-54.13	0.00	1.98	28.63	0.7299

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 30 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

	WCDMA Band IV (RMC 12.2Kbps) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1712.40	-28.21	-51.88	0.00	1.96	25.63	0.3657		
1732.60	-29.12	-52.99	0.00	2.00	25.87	0.3864		
1752.60	-30.12	-54.28	0.00	1.98	26.14	0.4111		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1712.40	-27.99	-52.13	0.00	1.96	26.10	0.4073		
1732.60	-29.23	-53.17	0.00	2.00	25.94	0.3930		
1752.60	-30.02	-54.13	0.00	1.98	26.09	0.4061		

	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1852.40	-27.84	-51.88	0.00	1.96	26.00	0.3985		
1880.00	-30.05	-52.99	0.00	2.00	24.94	0.3122		
1907.60	-31.30	-54.28	0.00	1.98	24.96	0.3133		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1852.40	-28.00	-52.13	0.00	1.96	26.09	0.4062		
1880.00	-30.15	-53.17	0.00	2.00	25.02	0.3177		
1907.60	-31.13	-54.13	0.00	1.98	24.98	0.3145		

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 31 of 113
Report Issued Date : Jan. 22, 2014

Report No. : FG3D3103



3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

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

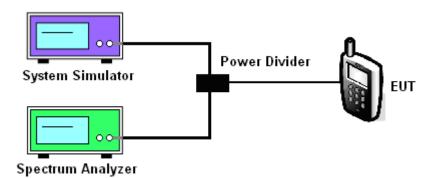
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
- 4. 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 (SHENZHEN) INC. TEL: 86-755-3320-2398

FCC ID: YHLBLULIFEPLAYS

Page Number : 32 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

Report No.: FG3D3103



3.4.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			
Channel	128	189	251	128	189	251	
Channel	(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	246.00	242.00	248.00	240.00	
26dB BW (kHz)	316.00	312.00	312.00	308.00	308.00	308.00	

PCS Band							
Modes	GS	SM1900 (GS	M)	GSM1900 (EDGE class 8)			
Channal	512	661	810	512	661	810	
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	
99% OBW (kHz)	244.00	248.00	246.00	248.00	246.00	246.00	
26dB BW (kHz)	308.00	312.00	310.00	314.00	306.00	316.00	

Cellular Band							
Modes	WCDMA Band V (RMC 12.2Kbps)						
Channel	4132 (Low) 4182 (Mid) 4233 (High)						
Frequency (MHz)	826.4	846.6					
99% OBW (MHz)	4.16	4.18	4.16				
26dB BW (MHz)	4.68 4.70 4.68						

AWS Band							
Modes	WCDMA Band IV (RMC 12.2Kbps)						
Channel	1312(Low) 1413 (Mid) 1513 (High)						
Frequency (MHz)	1712.4	1752.6					
99% OBW (MHz)	4.18	4.18	4.18				
26dB BW (MHz)	4.70 4.72 4.68						

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 33 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



FCC RF Test Report

PCS Band							
Modes	WCD	WCDMA Band II (RMC 12.2Kbps)					
Channel	9262 (Low) 9400 (Mid) 9538 (High)						
Frequency (MHz)	1852.4 1880 1907						
99% OBW (MHz)	4.16	4.16	4.18				
26dB BW (MHz)	4.70 4.68 4.70						

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 34 of 113
Report Issued Date : Jan. 22, 2014

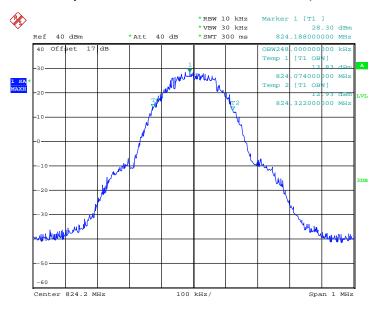
Report No.: FG3D3103



3.4.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

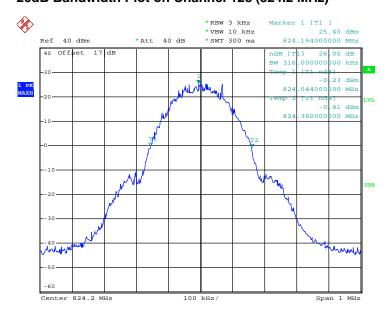
Band:	GSM 850	Test Mode :	GSM Link (GMSK)
-------	---------	-------------	-----------------

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



Date: 4.JAN.2014 13:55:59

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 4.JAN.2014 13:41:57

FCC ID : YHLBLULIFEPLAYS

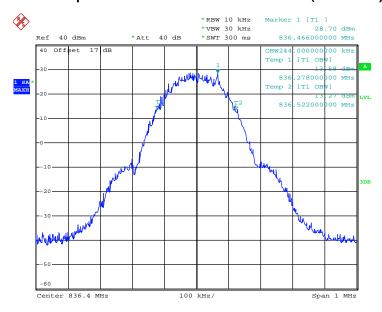
Page Number : 35 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



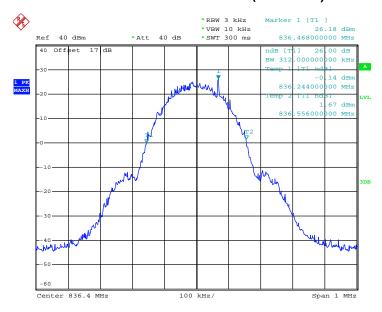
Report No.: FG3D3103

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



Date: 4.JAN.2014 13:52:31

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

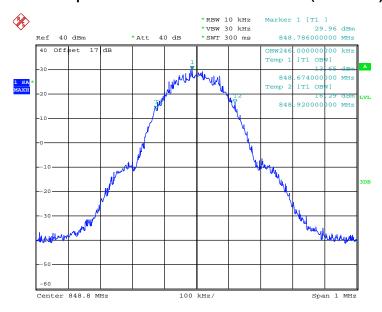


Date: 4.JAN.2014 13:44:11

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 36 of 113
Report Issued Date : Jan. 22, 2014

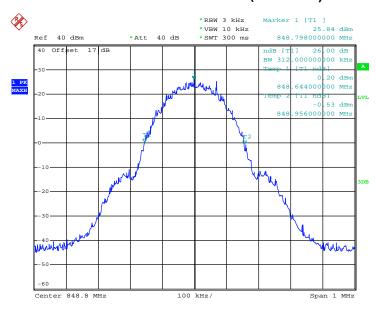


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 4.JAN.2014 13:49:46

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

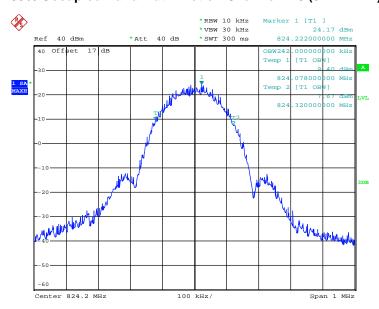


Date: 4.JAN.2014 13:46:32

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 37 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

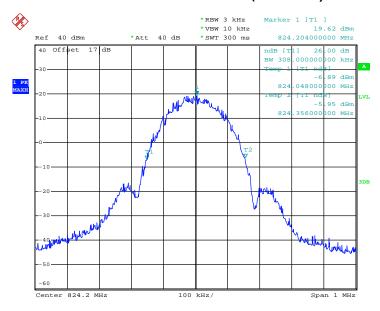
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 4.JAN.2014 13:18:41

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



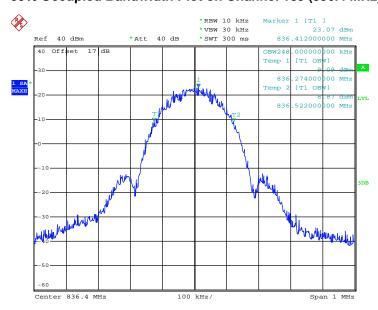
Date: 4.JAN.2014 13:06:16

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 38 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

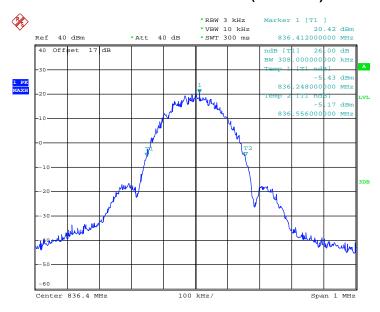


99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 4.JAN.2014 13:15:55

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

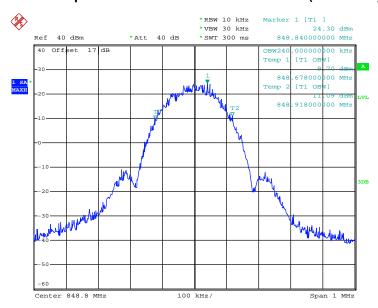


Date: 4.JAN.2014 13:05:07

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 39 of 113 Report Issued Date : Jan. 22, 2014

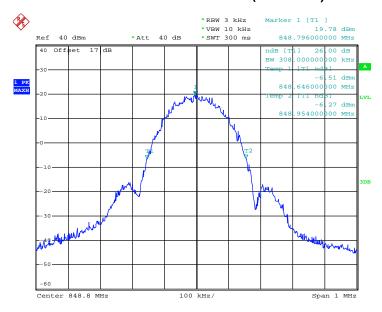


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 4.JAN.2014 13:13:35

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



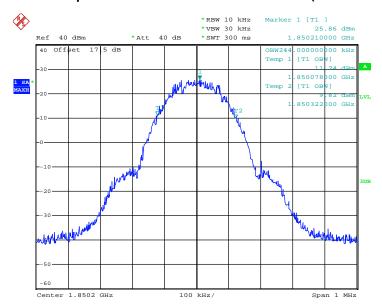
Date: 4.JAN.2014 13:09:10

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 40 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

FCC RF Test Report Report No.: FG3D3103

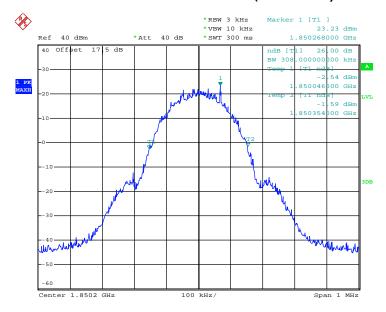


99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 4.JAN.2014 12:12:59

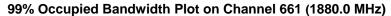
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

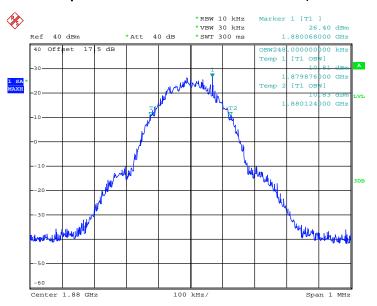


Date: 4.JAN.2014 12:06:01

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 41 of 113
Report Issued Date : Jan. 22, 2014







Date: 4.JAN.2014 12:11:04

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

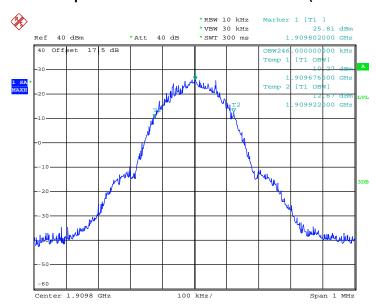


Date: 4.JAN.2014 12:04:41

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 42 of 113 Report Issued Date : Jan. 22, 2014

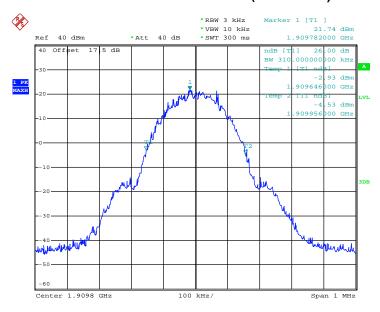


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 4.JAN.2014 12:09:28

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

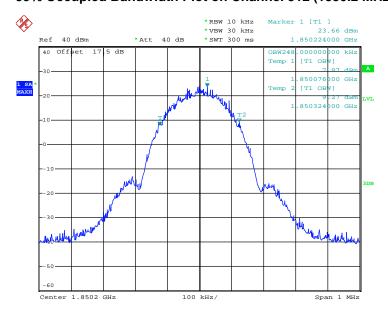


Date: 4.JAN.2014 12:07:08

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 43 of 113 Report Issued Date : Jan. 22, 2014

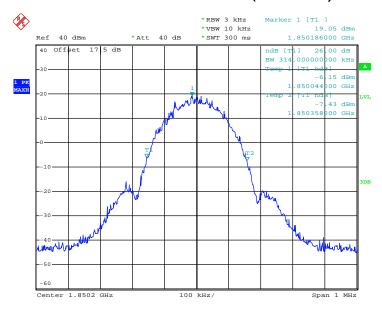
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 4.JAN.2014 12:40:04

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



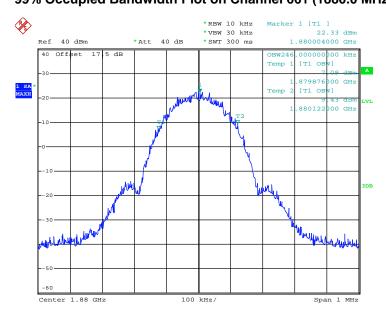
Date: 4.JAN.2014 12:23:23

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 44 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

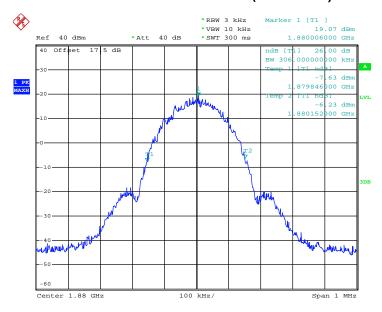


99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 4.JAN.2014 12:35:21

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



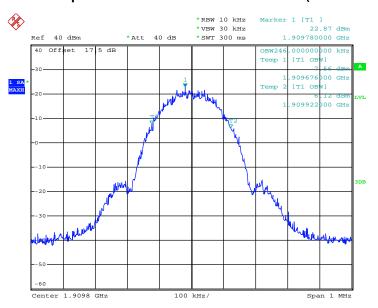
Date: 4.JAN.2014 12:25:07

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 45 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

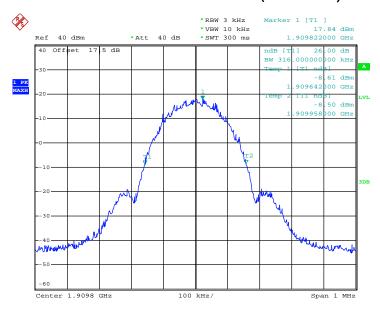


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 4.JAN.2014 12:32:30

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

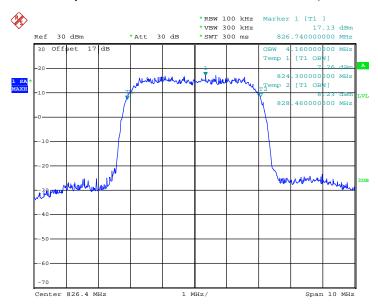


Date: 4.JAN.2014 12:29:11

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 46 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

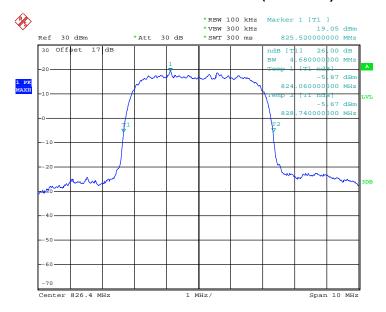
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 3.JAN.2014 22:01:29

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

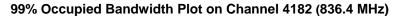


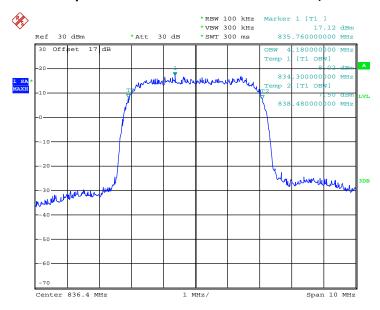
Date: 3.JAN.2014 21:56:33

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 47 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

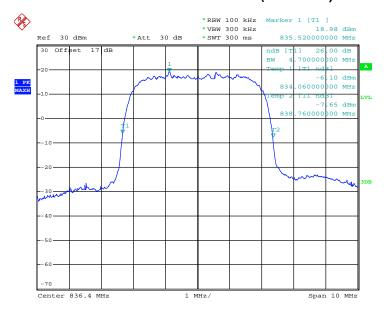






Date: 3.JAN.2014 21:59:19

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



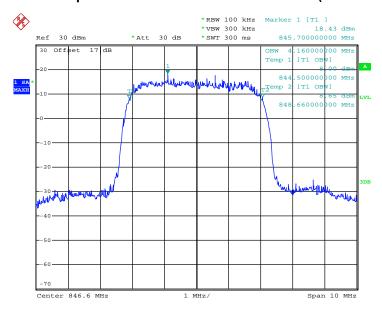
Date: 3.JAN.2014 21:57:49

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS

: 48 of 113 Page Number Report Issued Date: Jan. 22, 2014

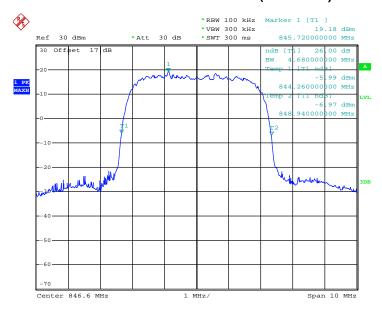


99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 3.JAN.2014 22:02:16

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

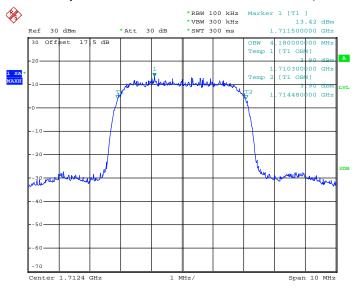


Date: 3.JAN.2014 21:54:38

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 49 of 113 Report Issued Date : Jan. 22, 2014

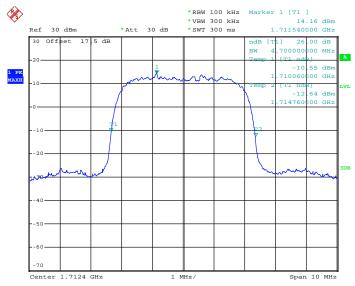
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 3.JAN.2014 22:50:54

26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



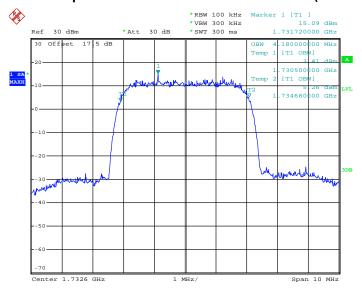
Date: 3.JAN.2014 22:41:35

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 50 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

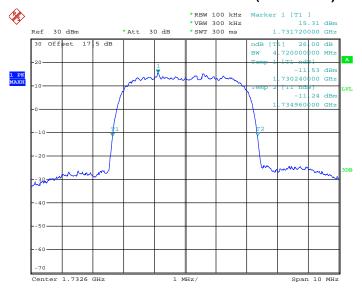


99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)



Date: 3.JAN.2014 22:45:32

26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)

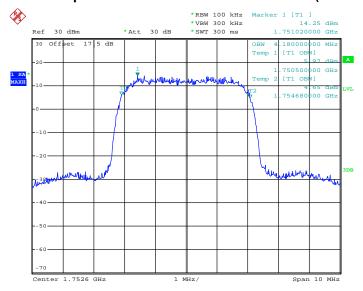


Date: 3.JAN.2014 22:43:53

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 51 of 113
Report Issued Date : Jan. 22, 2014

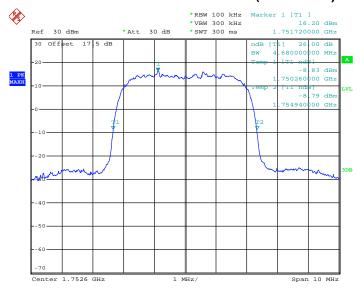


99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)



Date: 3.JAN.2014 22:47:30

26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)

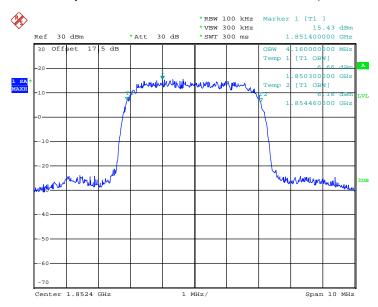


Date: 3.JAN.2014 22:42:28

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 52 of 113
Report Issued Date : Jan. 22, 2014

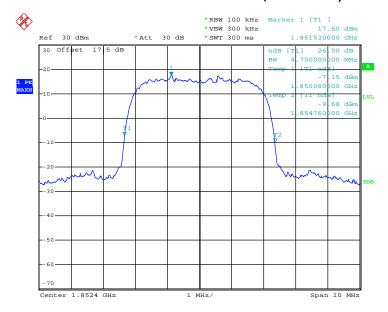
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 3.JAN.2014 22:27:45

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



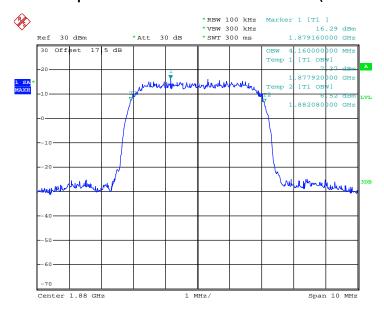
Date: 3.JAN.2014 22:26:19

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 53 of 113 Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103



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



Date: 3.JAN.2014 22:32:21

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

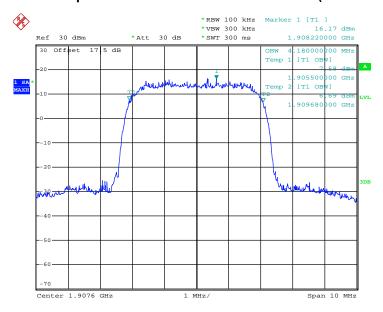


Date: 3.JAN.2014 22:22:58

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 54 of 113
Report Issued Date : Jan. 22, 2014

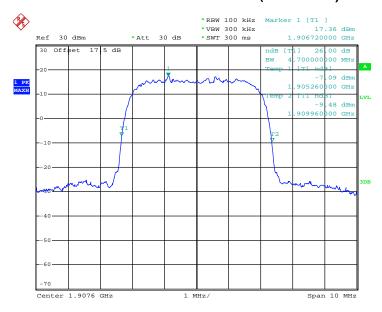


99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 3.JAN.2014 22:30:17

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 3.JAN.2014 22:24:19

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 55 of 113 Report Issued Date : Jan. 22, 2014



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

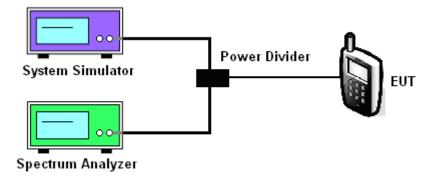
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
- 4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 5. 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

FCC ID: YHLBLULIFEPLAYS

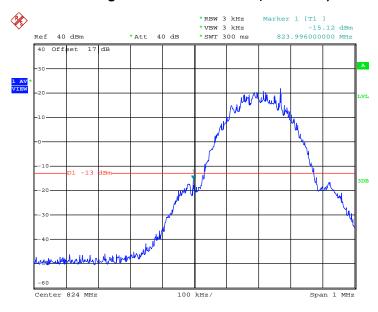




3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.23dB	Maximum 26dB Bandwidth :	0.316MHz
Band Edge :	-14.89dBm	Measurement Value :	-15.12dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 4.JAN.2014 13:38:05

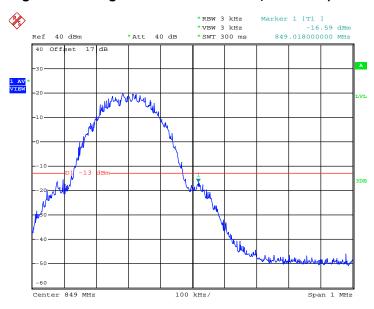
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 57 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.23dB	Maximum 26dB Bandwidth :	0.316MHz
Band Edge :	-16.36dBm	Measurement Value :	-16.59dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 4.JAN.2014 13:35:41

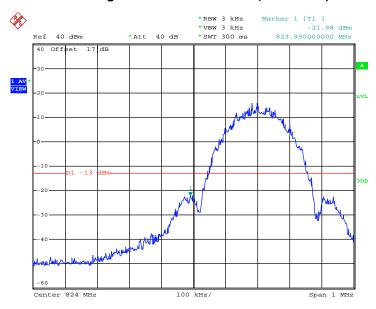
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 58 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSh	〈)
Correction Factor :	0.11dB	Maximum 26dB Bandwidth :	0.308MHz	
Band Edge :	-21.87dBm	Measurement Value :	-21.98dBm	

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 4.JAN.2014 13:23:15

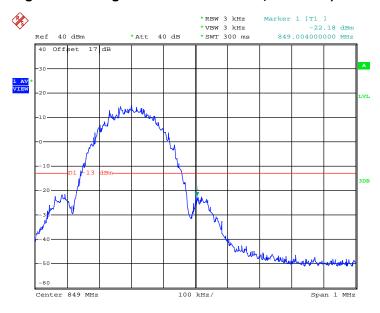
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 59 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.11dB	Maximum 26dB Bandwidth :	0.308MHz
Band Edge :	-22.07dBm	Measurement Value :	-22.18dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 4.JAN.2014 13:27:01

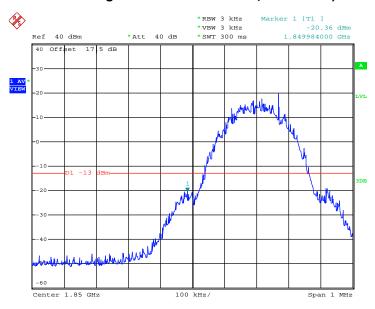
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 60 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-20.19dBm	Measurement Value :	-20.36dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 4.JAN.2014 12:14:24

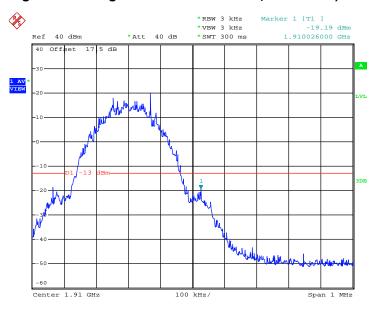
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 61 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-19.02dBm	Measurement Value :	-19.19dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 4.JAN.2014 12:15:36

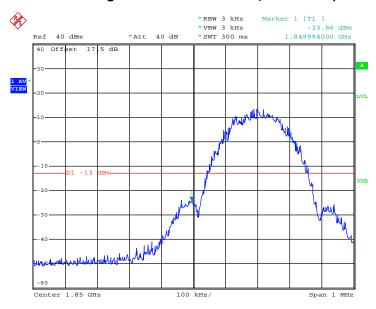
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 62 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor:	0.23dB	Maximum 26dB Bandwidth :	0.316MHz
Band Edge :	-23.63dBm	Measurement Value :	-23.86dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 4.JAN.2014 12:20:44

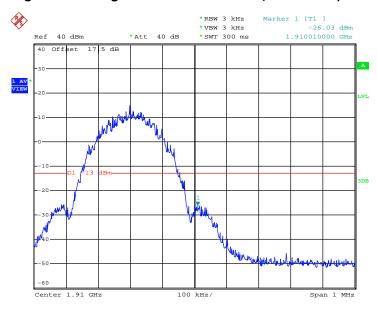
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 63 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor:	0.23dB	Maximum 26dB Bandwidth :	0.316MHz
Band Edge :	-25.80dBm	Measurement Value :	-26.03dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 4.JAN.2014 12:19:08

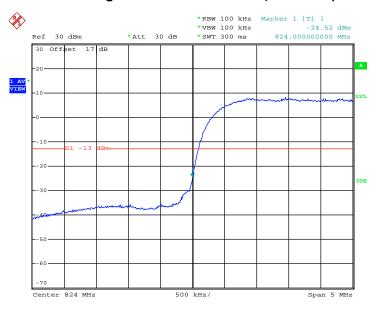
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 64 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth:	4.700MHz
Band Edge :	-27.80dBm	Measurement Value :	-24.52dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 3.JAN.2014 21:53:05

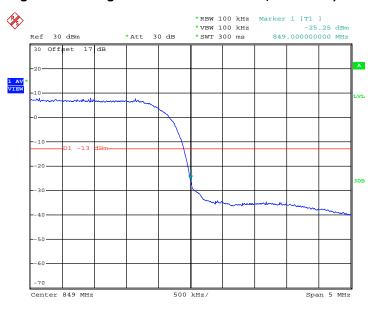
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 65 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth :	4.700MHz
Band Edge :	-28.53dBm	Measurement Value :	-25.25dBm

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



Date: 3.JAN.2014 21:53:45

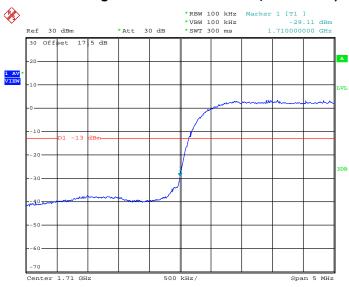
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 66 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	WCDMA Band IV	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth:	4.720MHz
Band Edge :	-32.37dBm	Measurement Value :	-29.11dBm

Lower Band Edge Plot on Channel 1312 (1712.4 MHz)



Date: 3.JAN.2014 22:39:54

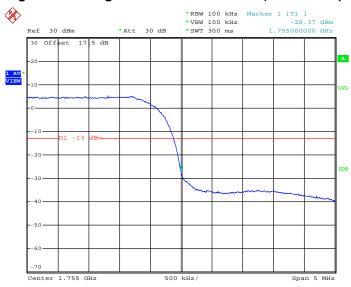
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 67 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	WCDMA Band IV	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth :	4.720MHz
Band Edge :	-29.63dBm	Measurement Value :	-26.37dBm

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)



Date: 3.JAN.2014 22:39:20

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 68 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth:	4.700MHz
Band Edge :	-28.43dBm	Measurement Value :	-25.15dBm

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 3.JAN.2014 22:36:38

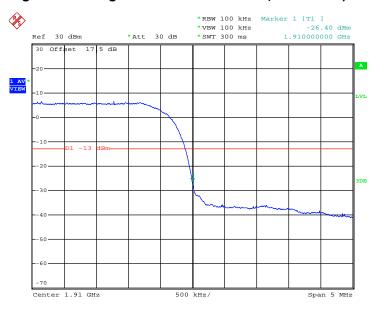
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 69 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth:	4.700MHz
Band Edge :	-29.68dBm	Measurement Value :	-26.40dBm

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 3.JAN.2014 22:37:21

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 70 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



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.

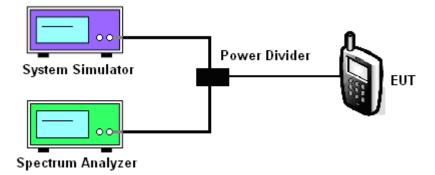
3.6.2 **Measuring Instruments**

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

3.6.3 **Test Procedures**

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- The middle channel for the highest RF power within the transmitting frequency was measured. 3.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) 6.
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.6.4 **Test Setup**



TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 71 of 113 Report Issued Date: Jan. 22, 2014 Report Version

: Rev. 01

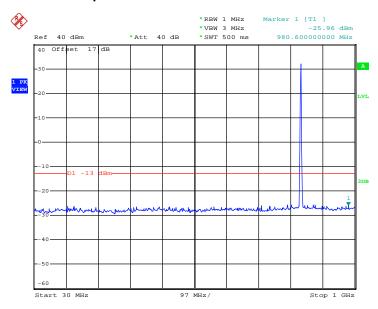
Report No.: FG3D3103



3.6.5 Test Result (Plots) of Conducted Emission

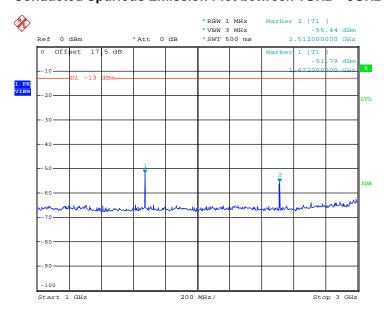
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.JAN.2014 14:04:04

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

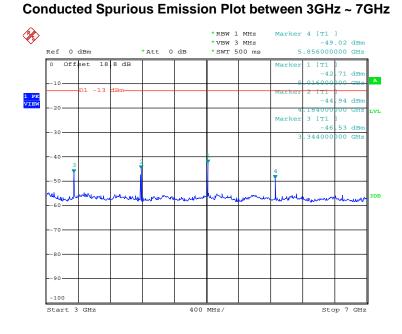


Date: 4.JAN.2014 13:59:52

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 72 of 113
Report Issued Date : Jan. 22, 2014

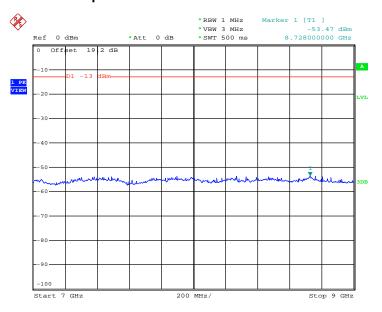
Report No.: FG3D3103





Date: 4.JAN.2014 14:00:53

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 4.JAN.2014 14:02:38

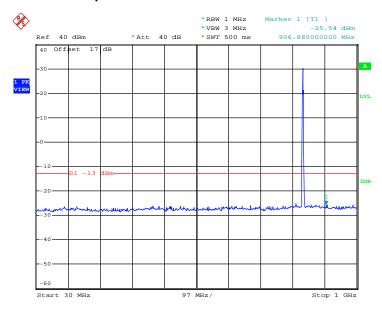
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 73 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



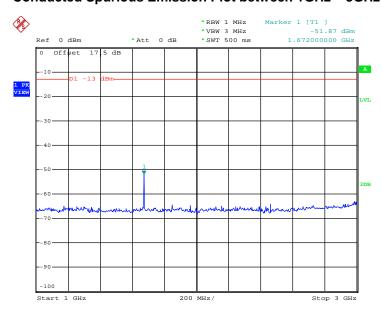
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.JAN.2014 12:58:20

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



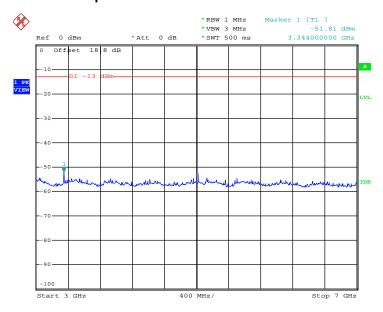
Date: 4.JAN.2014 12:54:08

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 74 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

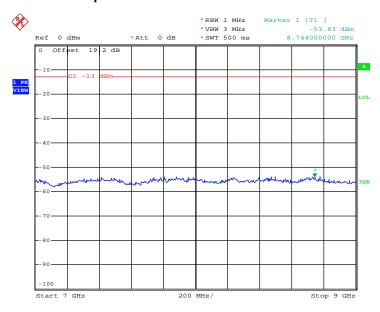


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.JAN.2014 12:55:24

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



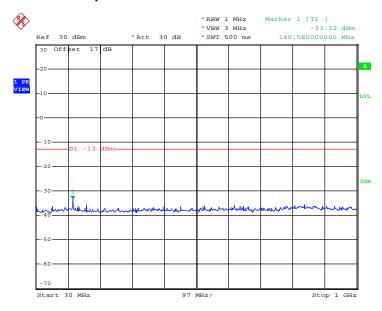
Date: 4.JAN.2014 12:56:28

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 75 of 113 Report Issued Date : Jan. 22, 2014



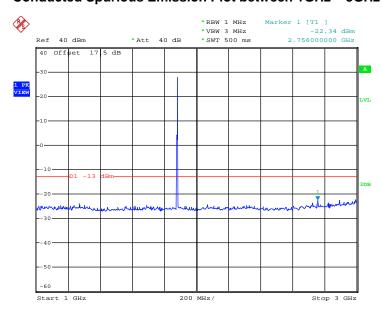
Band : GSM1900		Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.JAN.2014 11:48:50

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



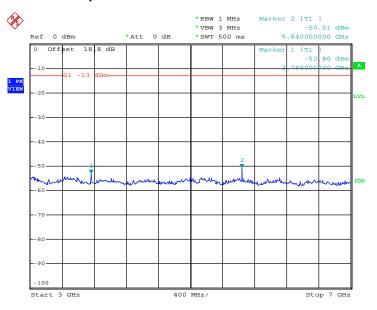
Date: 4.JAN.2014 11:49:25

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 76 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

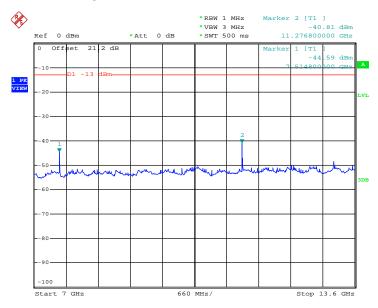


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.JAN.2014 11:51:38

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

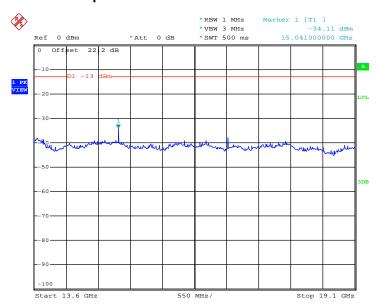


Date: 4.JAN.2014 11:53:11

: 77 of 113 Page Number TEL: 86-755-3320-2398 Report Issued Date: Jan. 22, 2014 FCC ID: YHLBLULIFEPLAYS Report Version : Rev. 01



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



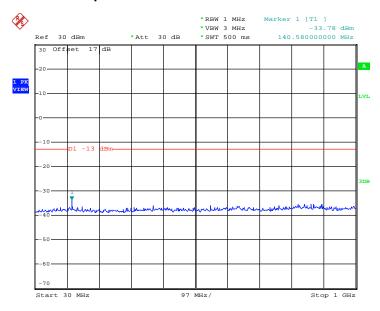
Date: 4.JAN.2014 11:53:44

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 78 of 113
Report Issued Date : Jan. 22, 2014



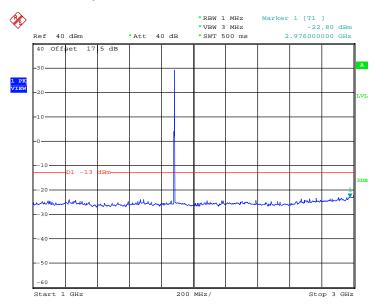
Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.JAN.2014 12:43:04

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



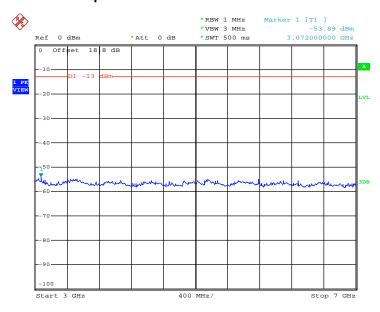
Date: 4.JAN.2014 12:42:24

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 79 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

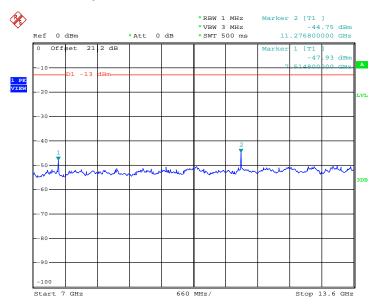


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.JAN.2014 12:44:44

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

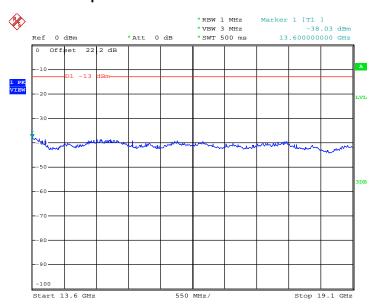


Date: 4.JAN.2014 12:46:58

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 80 of 113 Report Issued Date : Jan. 22, 2014



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 4.JAN.2014 12:48:50

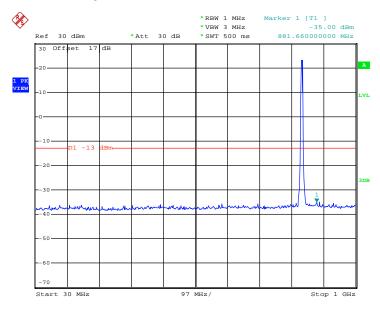
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 81 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



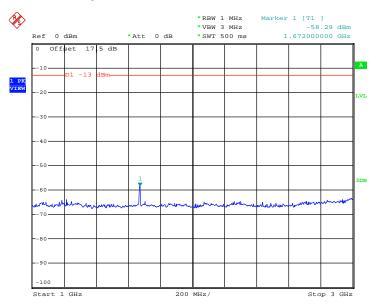
Band:	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 3.JAN.2014 22:05:39

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



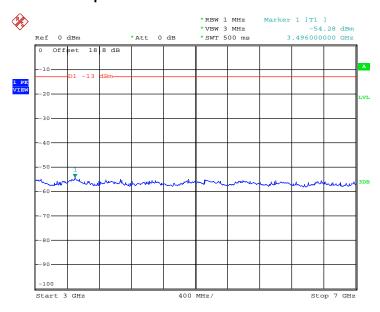
Date: 3.JAN.2014 22:07:38

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 82 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

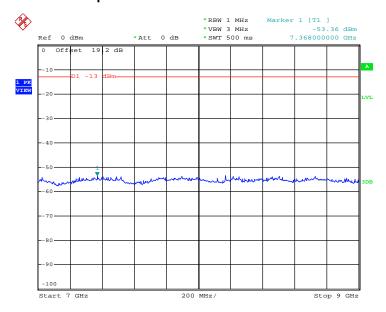


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



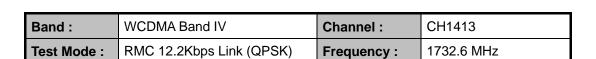
Date: 3.JAN.2014 22:09:02

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

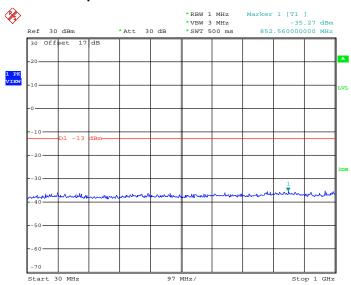


Date: 3.JAN.2014 22:12:51

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 83 of 113 Report Issued Date : Jan. 22, 2014

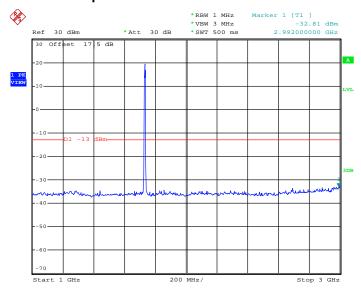


Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 3.JAN.2014 22:58:51

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



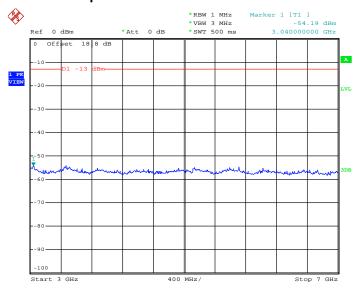
Date: 3.JAN.2014 22:57:40

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 84 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

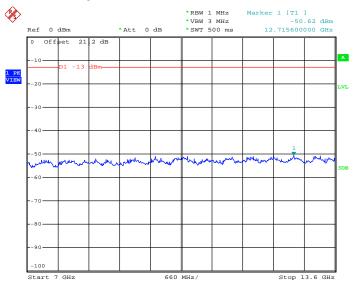


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 3.JAN.2014 23:02:15

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



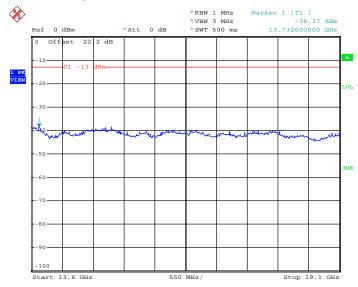
Date: 3.JAN.2014 23:03:04

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 85 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



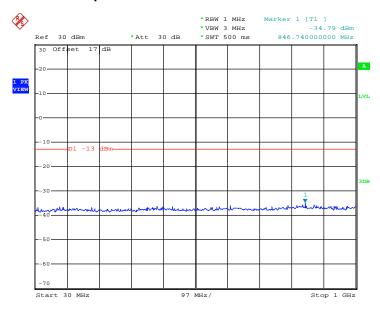
Date: 3.JAN.2014 23:04:19

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 86 of 113 Report Issued Date : Jan. 22, 2014



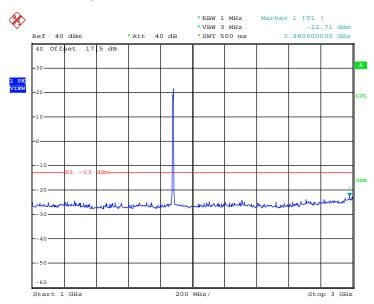
Band: WCDMA Band II		Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 3.JAN.2014 22:20:37

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



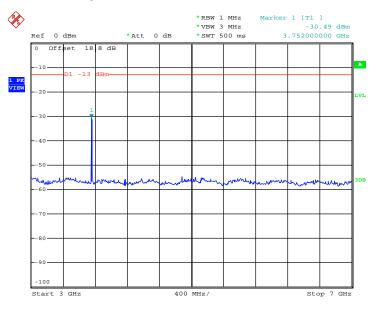
Date: 3.JAN.2014 22:21:13

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 87 of 113 Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103

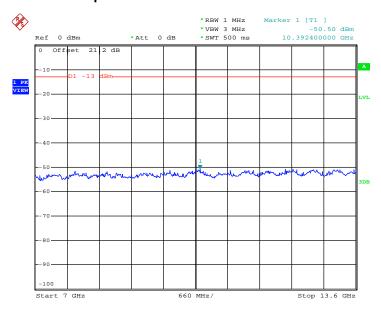


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 3.JAN.2014 22:16:50

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

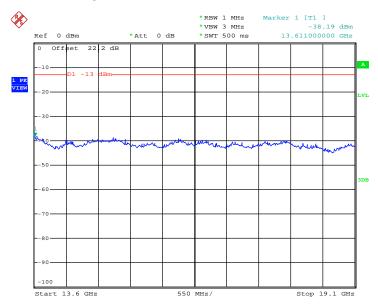


Date: 3.JAN.2014 22:18:09

: 88 of 113 Page Number TEL: 86-755-3320-2398 Report Issued Date: Jan. 22, 2014 FCC ID: YHLBLULIFEPLAYS Report Version : Rev. 01



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 3.JAN.2014 22:19:05

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 89 of 113
Report Issued Date : Jan. 22, 2014



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 EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. 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
- 12. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 13. ERP (dBm) = EIRP 2.15

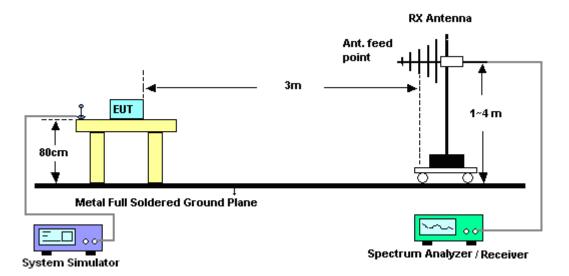
FCC ID: YHLBLULIFEPLAYS

Report No.: FG3D3103



3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

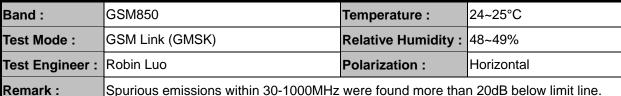


SPORTON INTERNATIONAL (SHENZHEN) INC.

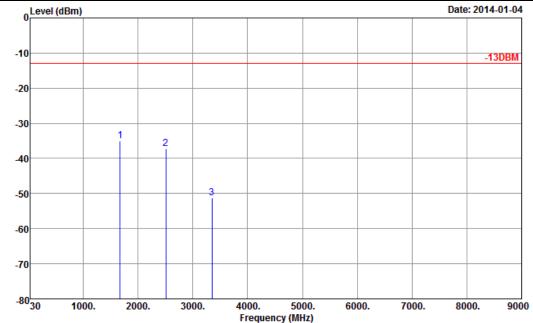
TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 91 of 113 Report Issued Date: Jan. 22, 2014 Report Version : Rev. 01



Test Result of Field Strength of Spurious Radiated 3.7.5



Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-SZ

Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL

Project : (FG) 3D3103

Plane : Y

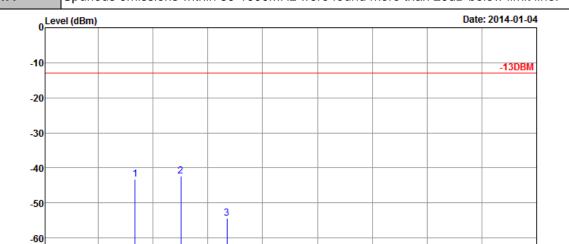
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-34.98	-13	-21.98	-51.81	-37.95	0.88	6.00	Н	Pass
2510	-37.20	-13	-24.20	-61.93	-39.81	1.08	5.84	Н	Pass
3346	-51.35	-13	-38.35	-61.95	-55.72	1.14	7.66	Н	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS

: 92 of 113 Page Number Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM850	Temperature :	24~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz	were found more that	n 20dB below limit line.



Site

1000.

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 3D3103 Condition

2000.

3000.

Project

Plane

-70

-80^{__}30

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-43.16	-13	-30.16	-56.51	-46.13	0.88	6.00	V	Pass
2510	-42.30	-13	-29.30	-64.11	-44.91	1.08	5.84	V	Pass
3346	-54.36	-13	-41.36	-66.19	-58.73	1.14	7.66	V	Pass

4000.

5000.

Frequency (MHz)

6000.

7000.

8000.

9000

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS

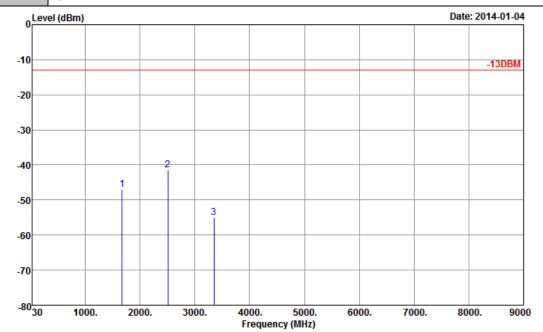
: 93 of 113 Page Number Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

FCC RF Test Report Report No.: FG3D3103

Band :	GSM850	Temperature :	24~25°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%				
Test Engineer :	Robin Luo	in Luo Polarization : Horizontal					
Domork .	Inurious amissions within 20 1000MHz were found more than 20dD helow limit line						

Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 3D3103 Condition

Project

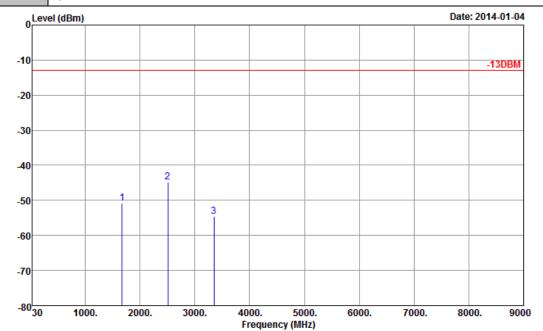
Plane

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-46.91	-13	-33.91	-62.59	-49.88	0.88	6.00	Н	Pass
2510	-41.51	-13	-28.51	-65.51	-44.12	1.08	5.84	Н	Pass
3346	-55.06	-13	-42.06	-65.66	-59.43	1.14	7.66	Н	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 94 of 113 Report Issued Date: Jan. 22, 2014

Band :	GSM850	Temperature :	24~25°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%				
Test Engineer :	Robin Luo	Polarization :	Vertical				
Domork .	Caurious amissions within 20 1000MH	purious emissions within 20 1000MHz were found more than 20dB helpy lim					

Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 3D3103 Condition

Project

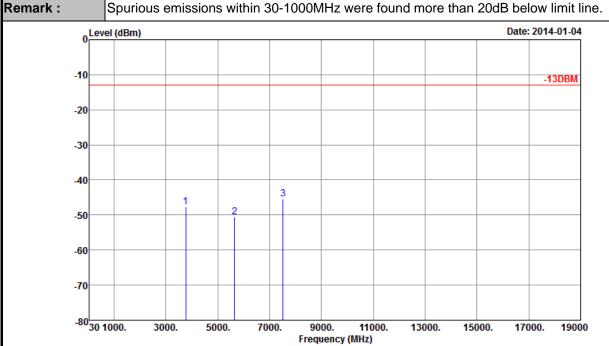
Plane

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-50.73	-13	-37.73	-63.04	-53.70	0.88	6.00	V	Pass
2510	-44.77	-13	-31.77	-66.16	-47.38	1.08	5.84	V	Pass
3346	-54.56	-13	-41.56	-66.39	-58.93	1.14	7.66	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 95 of 113 Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM1900	Temperature :	24~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Horizontal
_			



Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 3D3103 Condition

Project

Plane : Y

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-47.68	-13	-34.68	-61.99	-54.42	1.28	8.02	Н	Pass
5640	-50.67	-13	-37.67	-68.66	-59.09	1.58	10.00	Н	Pass
7520	-45.41	-13	-32.41	-67.35	-55.73	1.78	12.10	Н	Pass

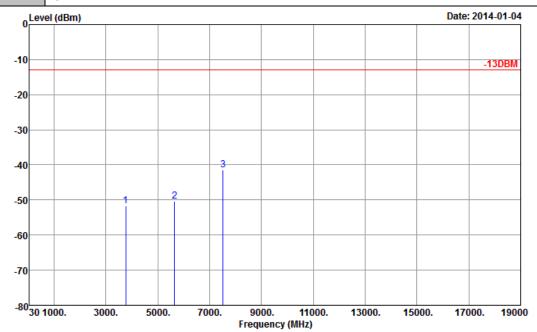
TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS

: 96 of 113 Page Number Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

Band :	GSM1900	Temperature :	24~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
_			

Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark:



Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 3D3103 Condition

Project

Plane

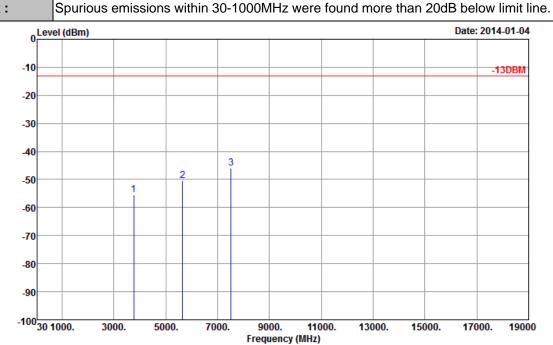
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-51.69	-13	-38.69	-66.72	-58.43	1.28	8.02	V	Pass
5640	-50.44	-13	-37.44	-67.52	-58.86	1.58	10	V	Pass
7520	-41.35	-13	-28.35	-63.6	-51.67	1.78	12.1	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 97 of 113 Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

FCC RF Test Report Report No.: FG3D3103

Band :	GSM1900	Temperature :	24~25°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%				
Test Engineer :	Robin Luo	Polarization :	Horizontal				
Pomark :	Spurious emissions within 20 1000MHz were found more than 20dR helow limit line						



Site

: 03CH01-SZ : -13DBM LF_EIRP_H_130101 HORIZONTAL : (FG) 3D3103 Condition

Project

Plane

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-55.52	-13	-42.52	-67.67	-62.26	1.28	8.02	Н	Pass
5640	-50.38	-13	-37.38	-68.37	-58.80	1.58	10.00	Н	Pass
7520	-46.03	-13	-33.03	-67.97	-56.35	1.78	12.10	Н	Pass

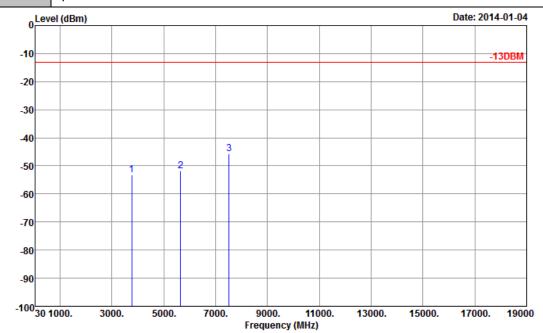
Report Issued Date: Jan. 22, 2014 FCC ID: YHLBLULIFEPLAYS Report Version : Rev. 01

Page Number

: 98 of 113

Band :	GSM1900	Temperature :	24~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site

: 03CH01-SZ : -13DBM LF_EIRP_V_130101 VERTICAL : (FG) 3D3103 Condition

Project

Plane

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-53.20	-13	-40.20	-68.23	-59.94	1.28	8.02	V	Pass
5640	-51.75	-13	-38.75	-68.83	-60.17	1.58	10	V	Pass
7520	-45.74	-13	-32.74	-67.99	-56.06	1.78	12.1	V	Pass

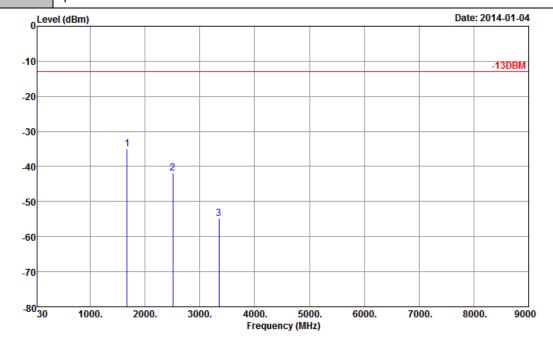
TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS

: 99 of 113 Page Number Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

FCC RF Test Report	Report No.: FG3D3103
--------------------	----------------------

Band :	WCDMA Band V	Temperature :	24~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%				
Test Engineer :	Robin Luo	Polarization :	Horizontal				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 3D3103 Condition

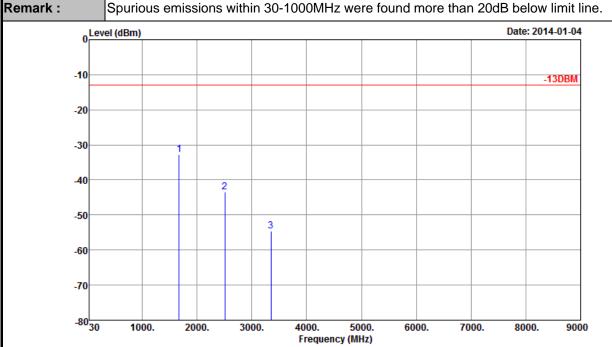
Project

Plane

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-35.07	-13	-22.07	-51.90	-38.04	0.88	6.00	Н	Pass
2510	-41.98	-13	-28.98	-65.88	-44.59	1.08	5.84	Н	Pass
3346	-54.80	-13	-41.80	-65.40	-59.17	1.14	7.66	Н	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 100 of 113 Report Issued Date: Jan. 22, 2014

Band :	WCDMA Band V	Temperature :	24~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical



Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 3D3103 Condition

Project

Plane

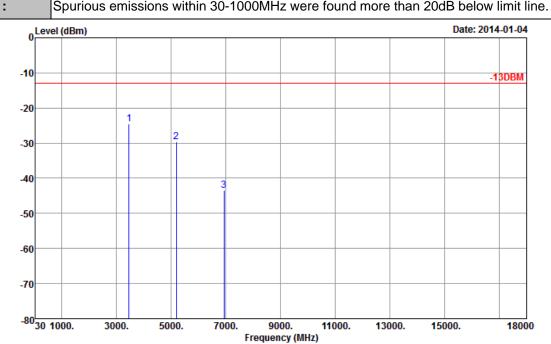
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-32.84	-13	-19.84	-46.82	-35.81	0.88	6.00	V	Pass
2510	-43.50	-13	-30.50	-64.93	-46.11	1.08	5.84	V	Pass
3346	-54.59	-13	-41.59	-66.42	-58.96	1.14	7.66	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 101 of 113 Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

FCC RF Test Report Report No.: FG3D3103

Band: WCDMA Band IV		Temperature :	24~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%				
Test Engineer :	Robin Luo	Polarization :	Horizontal				
Pomark :	Spurious emissions within 20 1000MHz were found more than 20dB below limit line						



Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 3D3103 Condition

Project

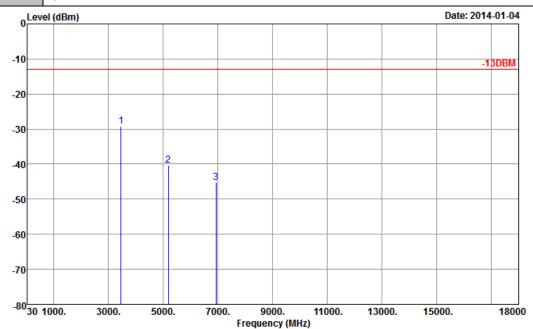
Plane

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3465	-24.41	-13	-11.41	-42.35	-31.31	1.4	8.30	Н	Pass
5197.5	-29.63	-13	-16.63	-51.76	-38.28	1.65	10.30	Н	Pass
6930	-43.43	-13	-30.43	-65.67	-53.98	1.85	12.40	Н	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 102 of 113 Report Issued Date: Jan. 22, 2014

Band :	WCDMA Band IV	Temperature :	24~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical

Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark:



Site : 03CH01-SZ

: -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 3D3103 Condition

Project

Plane

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3465	-29.16	-13	-16.16	-47.9	-36.06	1.4	8.3	V	Pass
5197.5	-40.28	-13	-27.28	-59.97	-48.93	1.65	10.3	V	Pass
6930	-45.31	-13	-32.31	-67.86	-55.86	1.85	12.4	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 103 of 113 Report Issued Date: Jan. 22, 2014

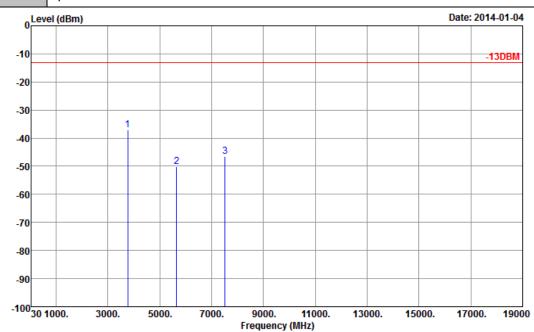
Report No.: FG3D3103

Test Engineer : Robin Luo

Band :	WCDMA Band II	Temperature :	24~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%

Polarization:

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site

: 03CH01-SZ : -13DBM LF_EIRP_H_130101 HORIZONTAL : (FG) 3D3103 Condition

Project

Plane

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-37.01	-13	-24.01	-53.82	-43.75	1.28	8.02	Н	Pass
5640	-50.19	-13	-37.19	-68.18	-58.61	1.58	10.00	Н	Pass
7520	-46.42	-13	-33.42	-68.36	-56.74	1.78	12.10	Н	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS

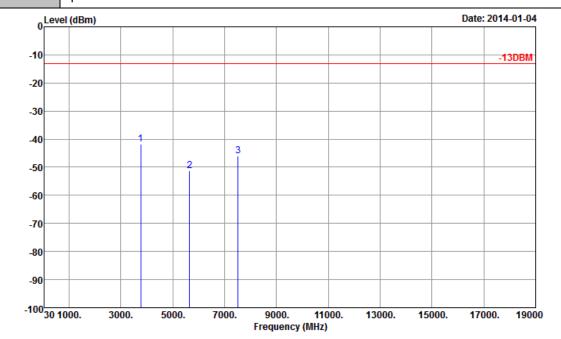
: 104 of 113 Page Number Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

Horizontal

FCC RF Test Report

Band :	WCDMA Band II	Temperature :	24~25°C					
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%					
Test Engineer :	Robin Luo	Polarization :	Vertical					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site

: 03CH01-SZ : -13DBM LF_EIRP_V_130101 VERTICAL : (FG) 3D3103 Condition

Project

Plane : Y

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-41.78	-13	-28.78	-58.41	-48.52	1.28	8.02	V	Pass
5640	-51.31	-13	-38.31	-68.39	-59.73	1.58	10	V	Pass
7520	-46.00	-13	-33.00	-68.25	-56.32	1.78	12.1	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 105 of 113 Report Issued Date: Jan. 22, 2014

Report No.: FG3D3103

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 EUT was set up in the thermal chamber and connected with the base station.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step 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 EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 106 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



3.8.5 Test Setup



TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 107 of 113
Report Issued Date : Jan. 22, 2014
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

	GS	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	14	+0.02	10	+0.01	
-20	12	+0.01	12	+0.01	
-10	11	+0.01	13	+0.02	
0	15	+0.02	14	+0.02	
10	14	+0.02	11	+0.01	PASS
20	13	+0.02	12	+0.01	
30	13	+0.02	11	+0.01	
40	12	+0.01	13	+0.02	
50	14	+0.02	13	+0.02	

Band :	GSM 1900	Channel:	661
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	GS	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	26	+0.01	30	+0.02	
-20	22	+0.01	28	+0.01	
-10	24	+0.01	26	+0.01	
0	23	+0.01	27	+0.01	
10	26	+0.01	28	+0.01	PASS
20	22	+0.01	29	+0.02	
30	25	+0.01	30	+0.02	
40	24	+0.01	31	+0.02	
50	27	+0.01	31	+0.02	

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 108 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



FCC RF Test Report

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

	RMC 12	RMC 12.2Kbps		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
-30	5	+0.01		
-20	6	+0.01		
-10	7	+0.01		
0	6	+0.01		
10	5	+0.01	PASS	
20	6	+0.01		
30	5	+0.01		
40	6	+0.01		
50	7	+0.01		

Band :	WCDMA Band IV	Channel:	1413
Limit (ppm):	2.5	Frequency:	1732.6 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	16	+0.01	
-20	14	+0.01	
-10	12	+0.01	
0	15	+0.01	
10	13	+0.01	PASS
20	13	+0.01	
30	14	+0.01	
40	16	+0.01	
50	15	+0.01	

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 109 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

Report No.: FG3D3103



FCC RF Test Report

Band :	WCDMA Band II	Channel:	9400
Limit (ppm) :	2.5	Frequency:	1880 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	19	+0.01	
-20	17	+0.01	
-10	16	+0.01	
0	18	+0.01	
10	17	+0.01	PASS
20	18	+0.01	
30	16	+0.01	
40	19	+0.01	
50	20	+0.01	

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 110 of 113
Report Issued Date : Jan. 22, 2014
Report Version : Rev. 01

Report No.: FG3D3103



3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
		3.7	15	+0.02		
	GSM	BEP	17	+0.02		
GSM 850		4.2	16	+0.02		
CH189		3.7	13	+0.02		
	EDGE class 8	BEP	15	+0.02		
	0,000	4.2	16	+0.02		
		3.7	25	+0.01		
	GSM	BEP	29	+0.02		
GSM 1900		4.2	26	+0.01		
CH661	EDGE class 8	3.7	30	+0.02		
		BEP	32	+0.02	2.5	PASS
		4.2	33	+0.02		
	RMC 12.2Kbps	3.7	8	+0.01		
WCDMA Band V CH4182		BEP	9	+0.01		
0114102		4.2	7	+0.01		
WCDMA Band IV CH1413		3.7	13	+0.01		
	RMC 12.2Kbps	BEP	16	+0.01		
	12.21000	4.2	15	+0.01		
WCDMA Band II CH9400		3.7	19	+0.01		
	RMC 12.2Kbps	BEP	21	+0.01		
	. 2.2	4.2	18	+0.01		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.55 V.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 111 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	Jan. 03, 2014~ Jan. 04, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV30	100845	9kHz~30GHz; Max input Power 30dBm	Dec. 04, 2013	Jan. 03, 2014~ Jan. 04, 2014	Dec. 03, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm~-20dBm	Mar. 28, 2013	Jan. 03, 2014~ Jan. 04, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Mar. 28, 2013	Jan. 03, 2014~ Jan. 04, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	-40℃~150℃	Mar. 28, 2013	Jan. 03, 2014~ Jan. 04, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Jan. 04, 2014	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Jan. 04, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 25, 2013	Jan. 04, 2014	Dec. 24, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz Gain 30db	Mar. 29, 2013	Jan. 04, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 29, 2013	Jan. 04, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA91702 49	14GHz~40GHz	Nov. 22, 2013	Jan. 04, 2014	Nov. 21, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jan. 04, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jan. 04, 2014	NCR	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Sep. 03, 2013	Jan. 02, 2014~ Jan. 13, 2014	Sep. 02, 2014	ERP/EIRP (OTA01-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000 MHz	N/A	Jan. 02, 2014~ Jan. 13, 2014	N/A	ERP/EIRP (OTA01-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Jan. 02, 2014~ Jan. 13, 2014	N/A	ERP/EIRP (OTA01-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Jan. 02, 2014~ Jan. 13, 2014	N/A	ERP/EIRP (OTA01-SZ)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAYS Page Number : 112 of 113
Report Issued Date : Jan. 22, 2014

Report No.: FG3D3103



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.90

Report No.: FG3D3103

SPORTON INTERNATIONAL (SHENZHEN) INC.

Page Number : 113 of 113

TEL: 86-755- 3320-2398

Report Issued Date : Jan. 22, 2014

FCC ID : YHLBLULIFEPLAYS Report Version : Rev. 01