FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : Life Pure 8
MARKETING NAME : Life Pure 8

FCC ID : YHLBLULIFEPURE8

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Aug. 23, 2014 and testing was completed on Sep. 11, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

NAI (KUNSHAN) INC.

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 1 of 72
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Testing Laboratory
2627

Report No.: FG482303

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG482303	Rev. 01	Initial issue of report	Sep. 25, 2014

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SUMMARY OF TEST RESULT

Report Section	FCC Rule Description		Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	3.3 §22.913(a)(2) Effective Radiated Power		< 7 Watts	PASS	-
3.4	§2.1049 §22.917(b) Occupied Bandwidth §24.238(b)		N/A	PASS	-
3.3	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	\$2.1051 Conducted Spurious \$22.917(a) Emission		< 43+10log ₁₀ (P[Watts])	PASS	
3.7	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 23.17 dB at 5637.000 MHz
		< 2.5 ppm for Part 22.355 Emission must remain In-band for 24.235	PASS	-	

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1 General Description

1.1 Applicant

CT Asia

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

1.2 Manufacturer

Ragentek Technology

D10/D11, No.3188, Xiupu Road, PuDong District, Shanghai

1.3 Product Feature of Equipment Under Test

Product Feature					
Equipment	Mobile phone				
Brand Name	BLU				
Model Name	Life Pure 8				
Marketing Name	Life Pure 8				
FCC ID	YHLBLULIFEPURE8				
	GSM/GPRS/WCDMA/HSPA				
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/				
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE				
HW Version	V1.2				
SW Version	V0.3				
EUT Stage	Pre-Production				

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification subjective to this standard

Product Specification subjective to this standard						
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz					
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz					
Maximum Output Power to Antenna	GSM850 : 32.20 dBm GSM1900 : 29.08 dBm WCDMA Band V : 22.94 dBm WCDMA Band II : 23.05 dBm					
Antenna Type	PIFA Antenna					
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)					

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	0.5986	0.0347 ppm	249KGXW
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0761	0.0478 ppm	4M20F9W
Part 24	GSM1900 GSM	GMSK	1.1390	0.0202 ppm	247KGXW
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2829	0.0287 ppm	4M18F9W

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1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road	l, Kunshan, Jiangsu Pr	ovince, P.R.C.			
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Test Site No.	Sporton Site No.		FCC Registration No.			
lest site NO.	03CH01-KS	149928				

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					
Test Site No.	Sporton Site No.	FCC Registration No.				
Test Site NO.	TH01-SZ	831040				

1.8 Applicable Standards

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

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

Remark:

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

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

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

Test Modes							
Band	Conducted TCs						
GSM 850	■ GSM Link	■ GSM Link					
GSM 1900	■ GSM Link	■ GSM Link					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

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

GSM mode for GMSK modulation,

RMC 12.2Kbps mode for WCDMA band V,

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

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Conducted Power Measurement Results:

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	1880.0	1909.8	
GSM	32.19	32.20	32.16	29.07	<mark>29.08</mark>	29.04	
GPRS class 8	32.18	32.19	32.15	29.06	29.07	29.05	
GPRS class 10	31.35	31.36	31.32	28.14	28.15	28.12	
GPRS class 11	29.58	29.59	29.56	26.32	26.33	26.28	
GPRS class 12	28.86	28.87	28.78	25.51	25.52	25.48	

Conducted Power (*Unit: dBm)							
Band	W	CDMA Band	V	WCDMA Band II			
Channel	4132	4182	4233	9262	9400	9538	
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6	
AMR 12.2Kbps	22.90	22.92	22.65	23.01	23.04	23.00	
RMC 12.2Kbps	22.91	<mark>22.94</mark>	22.67	23.03	<mark>23.05</mark>	23.01	
HSDPA Subtest-1	21.70	21.72	21.65	22.10	22.12	22.08	
HSDPA Subtest-2	21.75	21.79	21.71	22.07	22.09	22.05	
HSDPA Subtest-3	21.30	21.32	21.26	21.60	21.64	21.56	
HSDPA Subtest-4	21.26	21.28	21.21	21.59	21.61	21.53	
HSUPA Subtest-1	19.72	19.73	19.63	20.00	20.01	19.98	
HSUPA Subtest-2	19.73	19.74	19.65	20.03	20.05	20.01	
HSUPA Subtest-3	20.70	20.71	20.68	20.86	20.88	20.85	
HSUPA Subtest-4	19.56	19.59	19.52	19.60	19.61	19.59	
HSUPA Subtest-5	20.90	20.92	20.85	20.96	20.98	20.94	

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For SIM2 Card

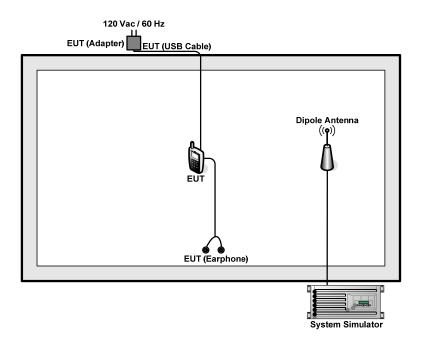
Conducted Power (*Unit: dBm)							
Band		GSM850		GSM1900			
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	32.16	<mark>32.18</mark>	32.13	29.02	<mark>29.05</mark>	29.00	
GPRS class 8	32.15	32.17	32.11	29.00	29.03	28.99	
GPRS class 10	31.30	31.32	31.29	28.07	28.11	28.04	
GPRS class 11	29.53	29.56	29.51	26.27	26.29	26.25	
GPRS class 12	28.82	28.85	28.75	25.48	25.50	25.45	

	Conducted Power (*Unit: dBm)									
Band	W	CDMA Band	V	WCDMA Band II						
Channel	4132	4182	4233	9262	9400	9538				
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6				
AMR 12.2Kbps	22.88	22.90	22.62	23.00	23.01	22.97				
RMC 12.2Kbps	22.89	<mark>22.92</mark>	22.63	23.01	<mark>23.03</mark>	22.98				
HSDPA Subtest-1	21.68	21.71	21.62	22.06	22.10	22.06				
HSDPA Subtest-2	21.73	21.77	21.70	22.07	22.08	22.03				
HSDPA Subtest-3	21.29	21.30	21.23	21.60	21.63	21.55				
HSDPA Subtest-4	21.25	21.27	21.20	21.58	21.60	21.52				
HSUPA Subtest-1	19.70	19.71	19.60	19.96	20.00	19.97				
HSUPA Subtest-2	19.69	19.73	19.58	20.01	20.02	20.00				
HSUPA Subtest-3	20.65	20.70	20.63	20.85	20.86	20.83				
HSUPA Subtest-4	19.53	19.58	19.50	19.56	19.60	19.58				
HSUPA Subtest-5	20.85	20.90	20.81	20.95	20.96	20.92				

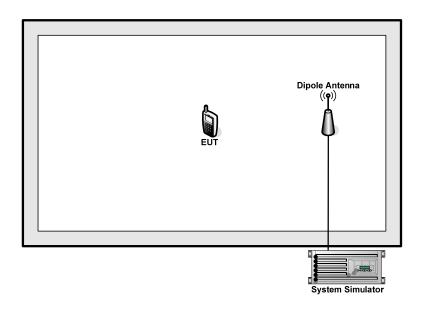
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2.2 Connection Diagram of Test System

<22H Tx Mode>



<24E Tx Mode>



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2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 7.5 dB and a 10dB attenuator.

Example:

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

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

	Cellular Band								
Modes		GSM850 (GSM)		WCDMA	Band V (RMC 1	2.2Kbps)			
Channel	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)			
Frequency (MHz)	824.2	836.4	848.8	826.4	836.4	846.6			
Conducted Power (dBm)	32.19	32.20	32.16	22.91	22.94	22.67			
Conducted Power (Watts)	1.66	1.66	1.64	0.20	0.20	0.18			

	PCS Band								
Modes	(GSM1900 (GSM)			00 (GSM) WCDMA Band II (RMC 12.2Kbps)				
Channel	512 (Low)				9400 (Mid)	9538 (High)			
Frequency (MHz)	1850.2	1880	1909.8	1852.4	1880	1907.6			
Conducted Power (dBm)	29.07	29.08	29.04	23.03	23.05	23.01			
Conducted Power (Watts)	0.81	0.81	0.80	0.20	0.20	0.20			

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

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3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

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

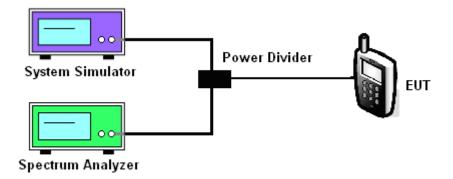
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

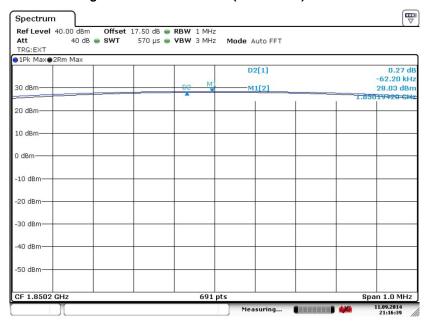
	PCS Band								
Modes	GSM1900 (GSM) WCDMA Band II (RMC 12.2Kbps)								
Channel	512 (Low)				9262 9400 9538 (Low) (Mid) (High)				
Frequency (MHz)	1850.2	1880	1909.8	1852.4	1880	1907.6			
Peak-to-Average Ratio (dB)	0.27	0.27	0.27	3.19	3.22	3.25			

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

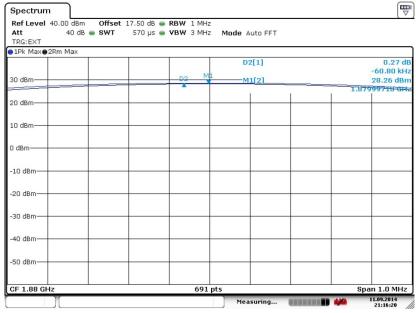
Band :	GSM 1900	Test Mode :	GSM Link (GMSK)
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 11.SEP.2014 21:16:39

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

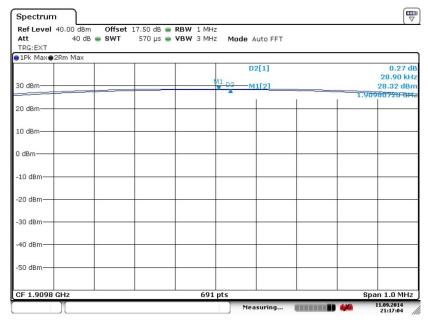


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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



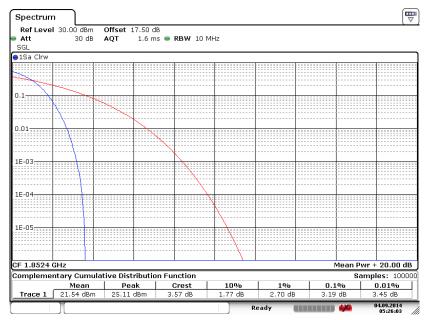
Date: 11.SEP.2014 21:17:05

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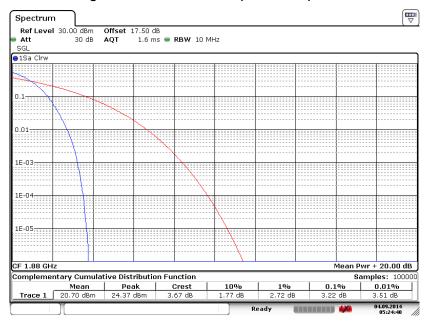
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 4.SEP.2014 05:26:03

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

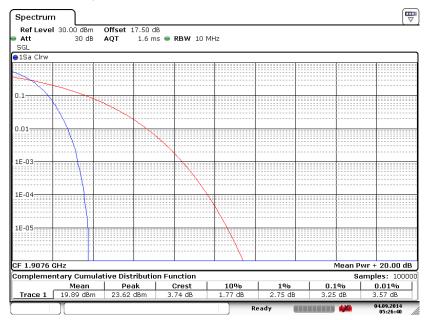


Date: 4.SEP.2014 05:24:40

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



Date: 4.SEP.2014 05:26:40

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3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- The testing follows FCC KDB 971168 v02r01 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17.
- 2. The EUT was placed on a turntable 1.5 meters high in a fully anechoic chamber.
- 3. The EUT was placed 3 meters from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
 UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
- 5. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 6. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 7. Taking the record of maximum ERP/EIRP.
- 8. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. The conducted power at the terminal of the dipole antenna is measured.
- 10. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 11. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + 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.

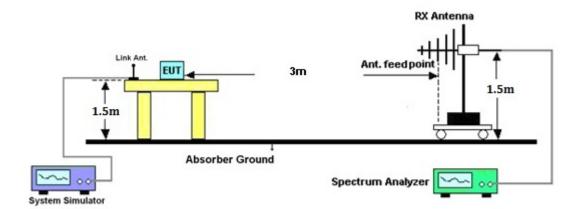
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 21 of 72
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3.3.4 Test Setup



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3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP									
		Hoi	rizontal Polariza	tion						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)				
824.20	-19.70	-48.12	0.00	-1.08	27.34	0.5422				
836.40	-19.79	-48.28	0.00	-0.93	27.56	0.5698				
848.80	-19.82	-48.35	0.00	-0.76	27.77	0.5986				
		Ve	ertical Polarizati	on						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)				
824.20	-30.75	-47.97	0.00	-1.08	16.14	0.0411				
836.40	-30.74	-48.01	0.00	-0.93	16.34	0.0430				
848.80	-30.64	-48.05	0.00	-0.76	16.65	0.0463				

	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
826.40	-29.08	-48.12	0.00	-1.08	17.96	0.0625			
836.40	-28.53	-48.28	0.00	-0.93	18.82	0.0761			
846.60	-28.81	-48.35	0.00	-0.76	18.78	0.0756			
		Ve	ertical Polarizati	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
826.40	-39.93	-47.97	0.00	-1.08	6.96	0.0050			
836.40	-39.43	-48.01	0.00	-0.93	7.65	0.0058			
846.60	-39.48	-48.05	0.00	-0.76	7.81	0.0060			

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3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP									
		Hoi	rizontal Polariza	tion						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)				
1850.20	-23.59	-51.88	0.00	1.96	30.25	1.0581				
1880.00	-25.36	-52.99	0.00	2.00	29.63	0.9177				
1909.80	-27.43	-54.28	0.00	1.98	28.83	0.7635				
		Ve	ertical Polarizati	on						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)				
1850.20	-23.52	-52.13	0.00	1.96	30.57	1.1390				
1880.00	-25.38	-53.17	0.00	2.00	29.79	0.9526				
1909.80	-27.27	-54.13	0.00	1.98	28.84	0.7657				

	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	-29.63	-51.88	0.00	1.96	24.21	0.2638				
1880.00	-31.59	-52.99	0.00	2.00	23.40	0.2189				
1907.60	-33.98	-54.28	0.00	1.98	22.28	0.1691				
		Ve	ertical Polarizati	on						
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)				
1852.40	-29.57	-52.13	0.00	1.96	24.52	0.2829				
1880.00	-31.62	-53.17	0.00	2.00	23.55	0.2267				
1907.60	-33.75	-54.13	0.00	1.98	22.36	0.1721				

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

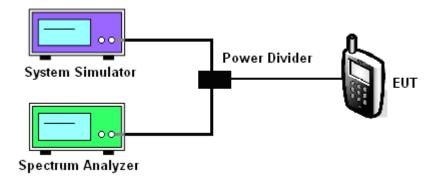
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 4.2.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
- 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

3.4.4 Test Setup



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3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	GSM85	GSM850 (GSM)					
Channel	128(Low)	128(Low) 189(Mid) 251(High)					
Frequency (MHz)	824.2	836.4	848.8				
99% OBW (MHz)	247.47	247.47 246.02 248.91					
26dB BW (MHz)	305.40	305.40	308.20				

PCS Band							
Modes	GSM19	GSM1900 (GSM)					
Channel	512(Low)	512(Low) 661(Mid) 810(High)					
Frequency (MHz)	1850.2	1880	1909.8				
99% OBW (MHz)	247.47	247.47 244.57 246.02					
26dB BW (MHz)	311.10	311.10	283.60				

Cellular Band				
Modes	WCDMA Band V (RMC 12.2Kbps)			
Channel	4132 (Low)	4182 (Mid)	4233 (High)	
Frequency (MHz)	826.4	836.4	846.6	
99% OBW (MHz)	4.18	4.17	4.20	
26dB BW (MHz)	4.70	4.67	4.70	

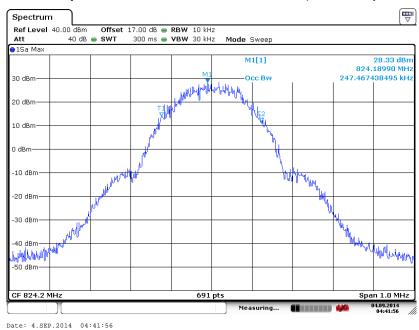
PCS Band				
Modes	WCDMA Band II (RMC 12.2Kbps)			
Channel	9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1852.4	1880	1907.6	
99% OBW (MHz)	4.18	4.17	4.17	
26dB BW (MHz)	4.67	4.69	4.69	

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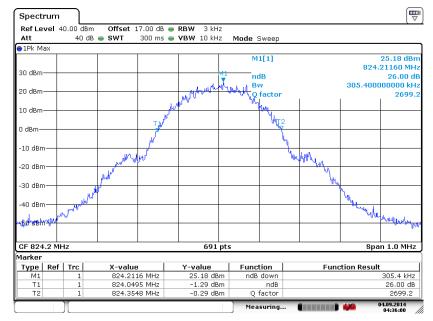
3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

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

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



26dB Bandwidth Plot on Channel 128 (824.2 MHz)

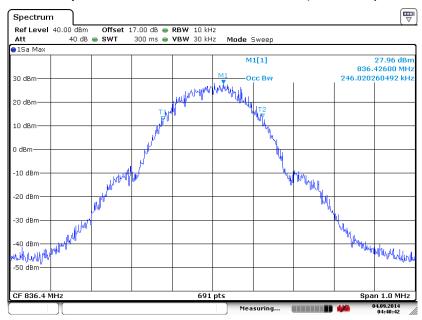


Date: 4.SEP.2014 04:36:00

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 27 of 72
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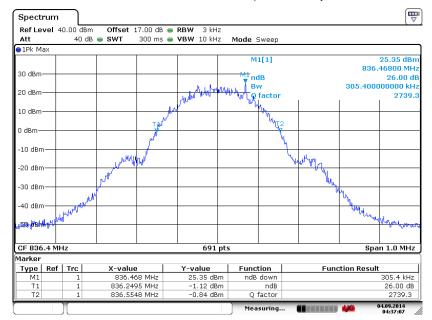
CO

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



Date: 4.SEP.2014 04:40:42

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

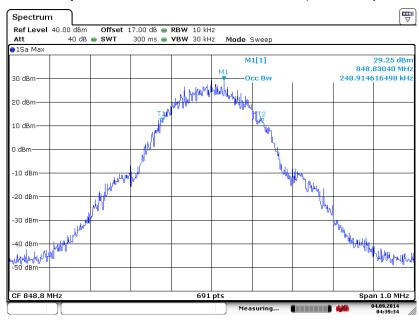


Date: 4.SEP.2014 04:37:07

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 28 of 72
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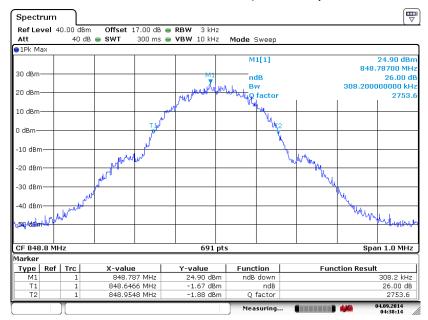
Report No. : FG482303

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



Date: 4.SEP.2014 04:39:34

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 4.SEP.2014 04:38:14

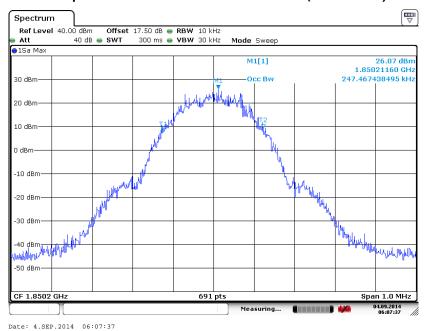
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 29 of 72 Report Issued Date : Sep. 25, 2014

Report No. : FG482303

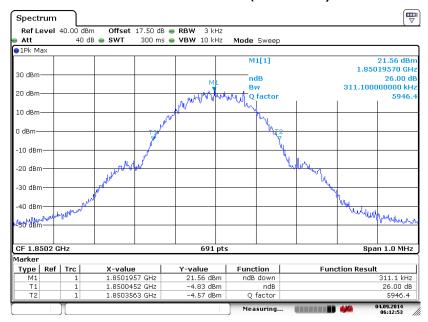
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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

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26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



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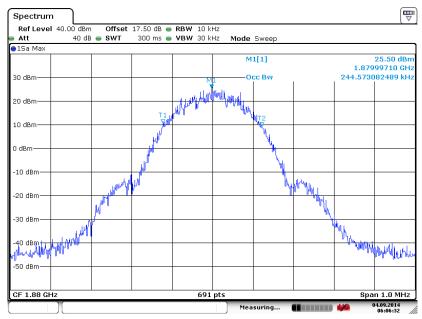
Report Issued Date : Sep. 25, 2014

Date: 4.SEP.2014 06:12:53

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8

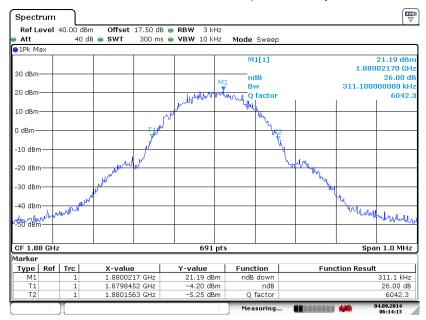
FCC RF Test Report

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



Date: 4.SEP.2014 06:06:32

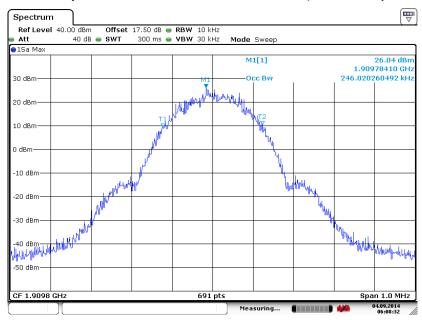
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 4.SEP.2014 06:14:13

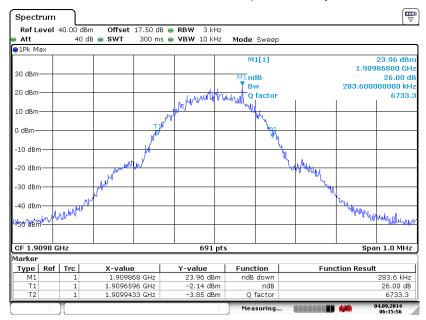
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 31 of 72
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99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 4.SEP.2014 06:08:32

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 4.SEP.2014 06:15:56

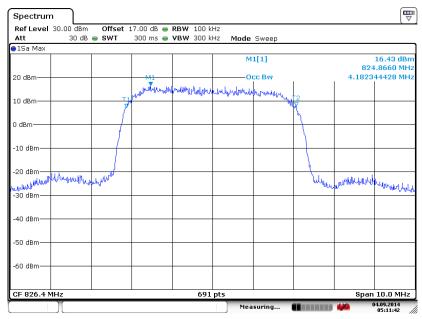
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 32 of 72
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Report No. : FG482303

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

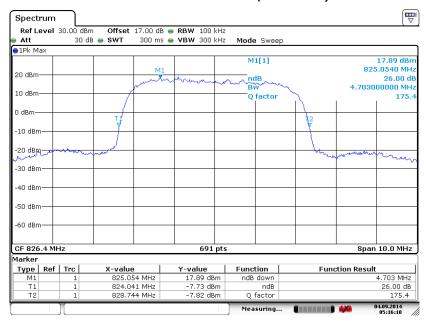
99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)

Report No. : FG482303



Date: 4.SEP.2014 05:11:42

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



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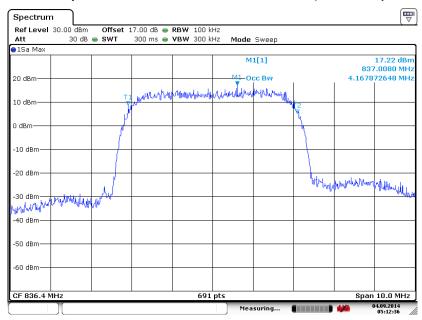
Report Issued Date : Sep. 25, 2014

Date: 4.SEP.2014 05:16:10

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8

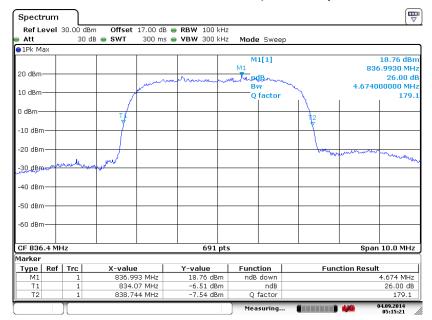
FCC RF Test Report

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



Date: 4.SEP.2014 05:12:36

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



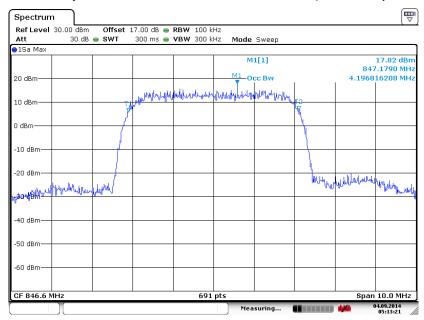
Date: 4.SEP.2014 05:15:21

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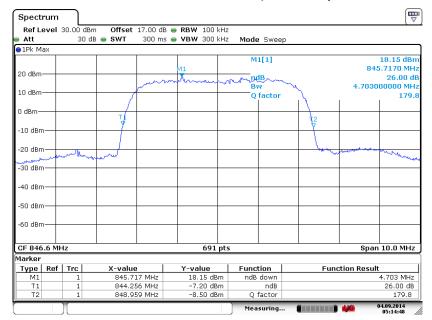
Report No. : FG482303

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



Date: 4.SEP.2014 05:13:21

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

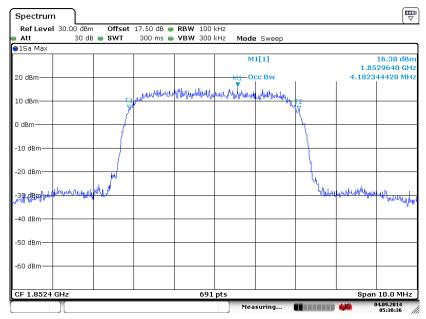


Date: 4.SEP.2014 05:14:48

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 35 of 72 Report Issued Date : Sep. 25, 2014 Report Version : Rev. 01

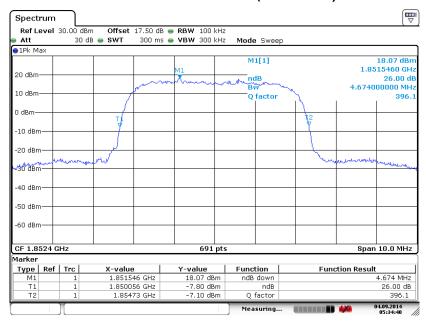
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 4.SEP.2014 05:30:36

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)

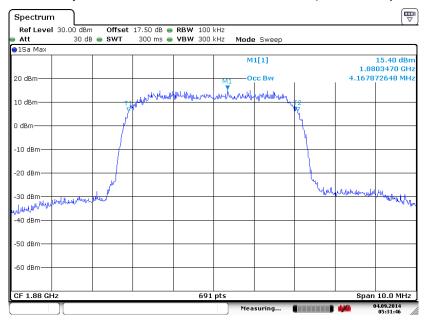


Date: 4.SEP.2014 05:34:40

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 36 of 72
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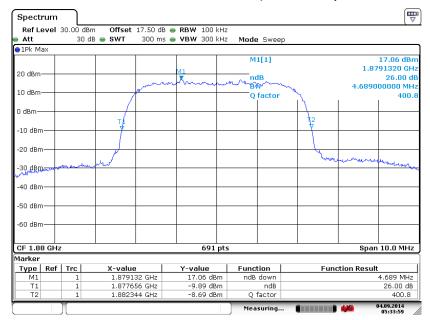
Report No. : FG482303

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



Date: 4.SEP.2014 05:31:46

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

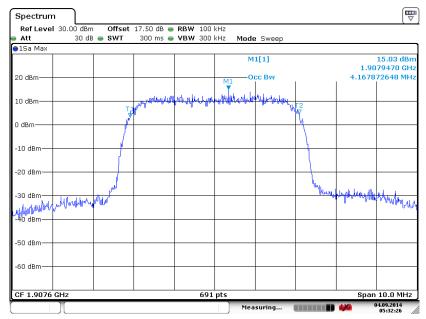


Date: 4.SEP.2014 05:33:59

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 37 of 72 Report Issued Date : Sep. 25, 2014

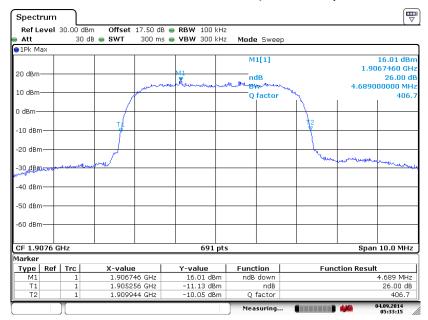
Report No. : FG482303

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



Date: 4.SEP.2014 05:32:26

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 4.SEP.2014 05:33:15

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 38 of 72 Report Issued Date : Sep. 25, 2014

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3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

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

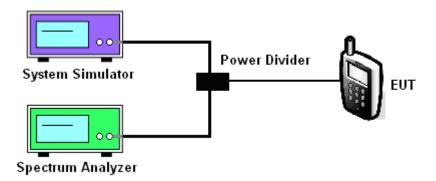
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.5.4 Test Setup

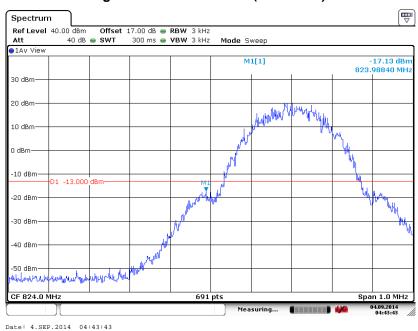


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3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.12 dB	Maximum 26dB Bandwidth:	0.308MHz
Band Edge :	-17.01dBm	Measurement Value :	-17.13dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



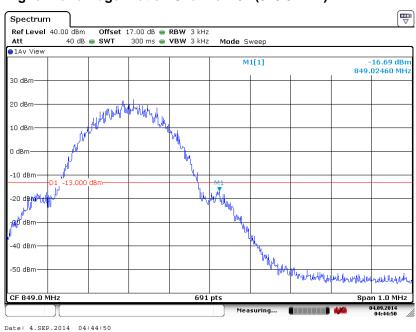
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.12 dB	Maximum 26dB Bandwidth :	0.308MHz
Band Edge :	-16.57dBm	Measurement Value :	-16.69dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)

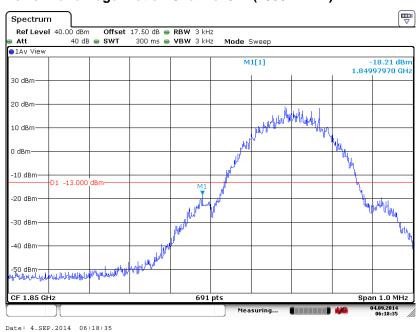


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.16dB	Maximum 26dB Bandwidth :	0.311MHz
Band Edge :	-18.05dBm	Measurement Value :	-18.21dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

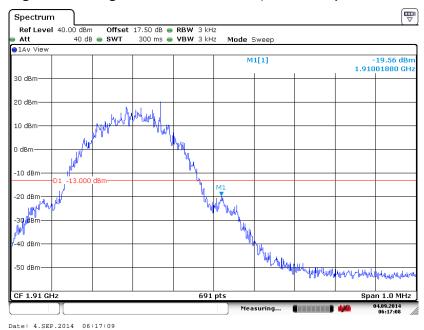


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.16dB	Maximum 26dB Bandwidth :	0.311MHz
Band Edge :	-19.40dBm	Measurement Value :	-19.56dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

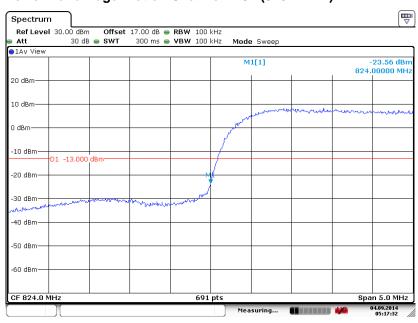


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth :	4.700MHz
Band Edge :	-26.84dBm	Measurement Value :	-23.56dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)

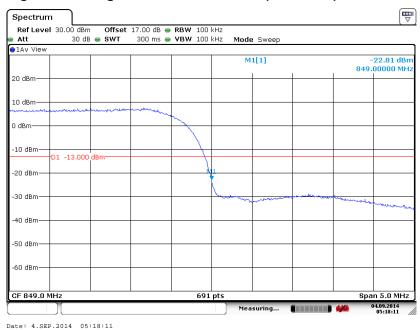


- Date: 4.SEP.2014 05:17:32
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth :	4.700MHz
Band Edge :	-26.09dBm	Measurement Value :	-22.81dBm

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



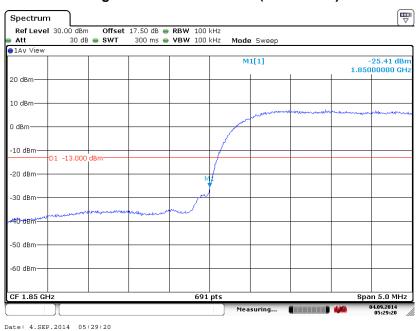
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.29dB	Maximum 26dB Bandwidth :	4.690MHz
Band Edge :	-28.70dBm	Measurement Value :	-25.41dBm

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



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

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.29dB	Maximum 26dB Bandwidth :	4.690MHz
Band Edge :	-30.84dBm	Measurement Value :	-27.55dBm

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



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

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3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.6.4 Test Setup



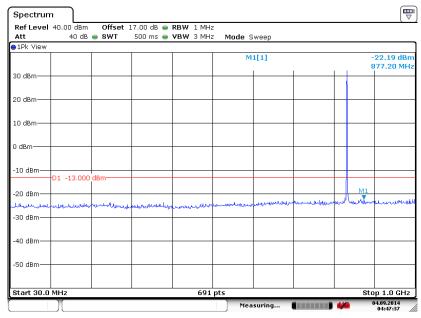
SPORTON INTERNATIONAL (KUNSHAN) INC.

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3.6.5 Test Result (Plots) of Conducted Spurious Emission

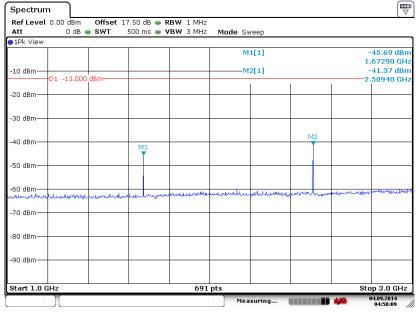
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.SEP.2014 04:47:3

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

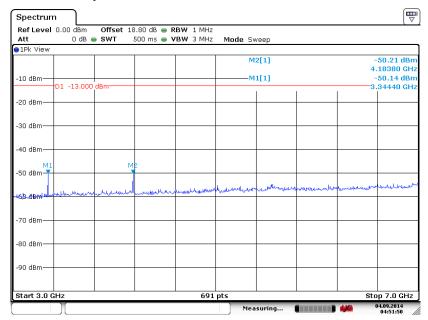


Date: 4.SEP.2014 04:50:09

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 49 of 72
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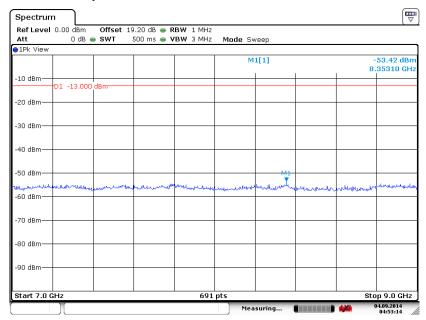
Report No.: FG482303

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.SEP.2014 04:51:50

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



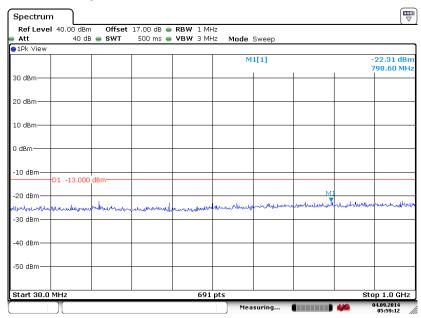
Date: 4.SEP.2014 04:53:14

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 50 of 72
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Report No.: FG482303

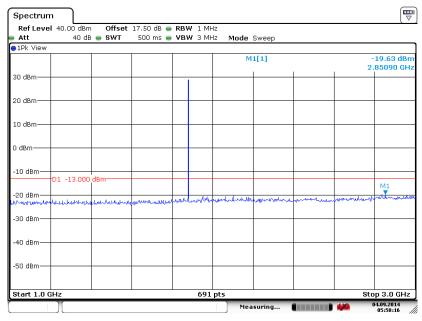
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.SEP.2014 05:59:12

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

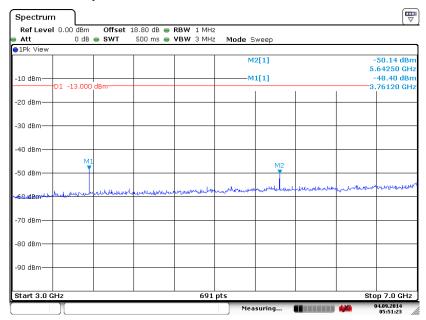


Date: 4.SEP.2014 05:58:16

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 51 of 72
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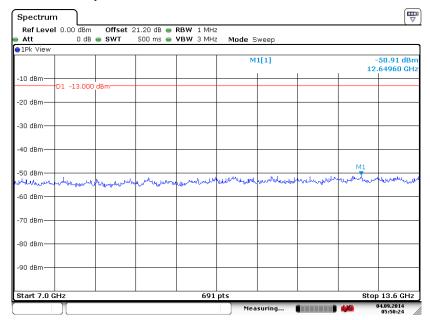
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.SEP.2014 05:51:23

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

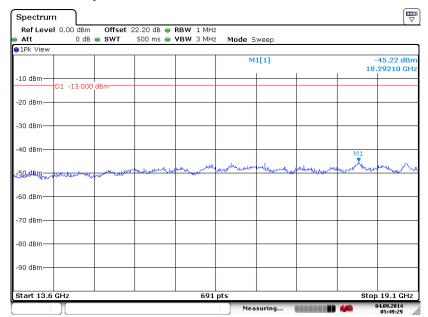


Date: 4.SEP.2014 05:50:24

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 52 of 72
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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

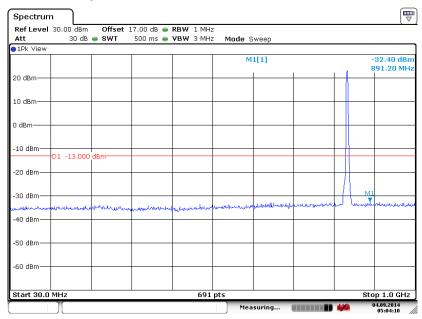


Date: 4.SEP.2014 05:49:29

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 53 of 72
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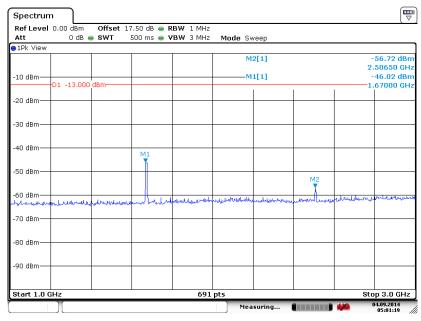
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.SEP.2014 05:04:10

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

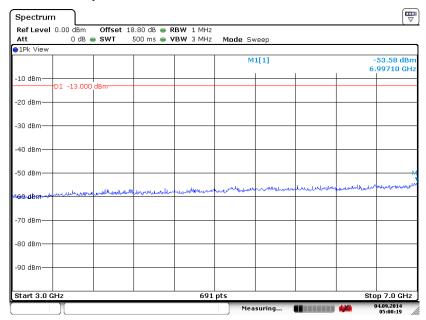


Date: 4.SEP.2014 05:01:19

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 54 of 72
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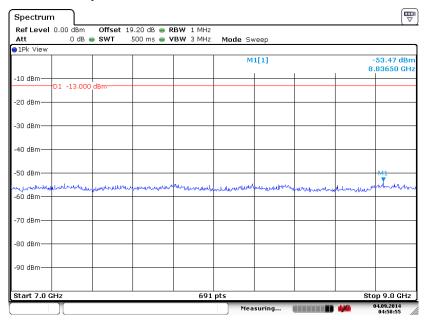
Report No.: FG482303

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.SEP.2014 05:00:19

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



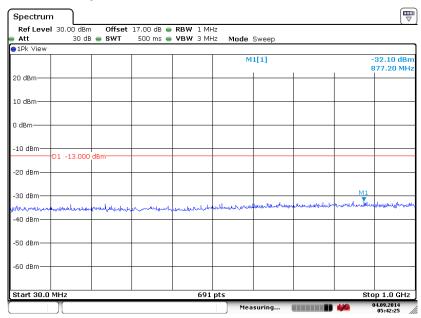
Date: 4.SEP.2014 04:58:55

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 55 of 72
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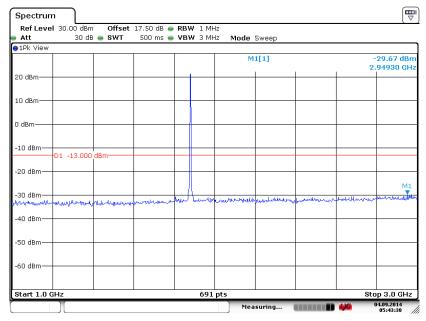
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.SEP.2014 05:42:25

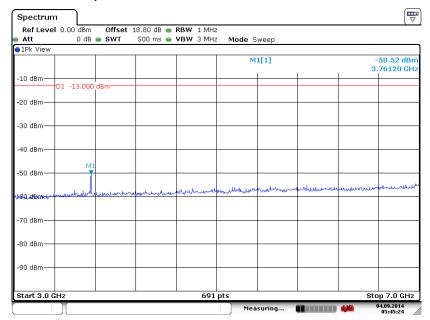
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 4.SEP.2014 05:43:38

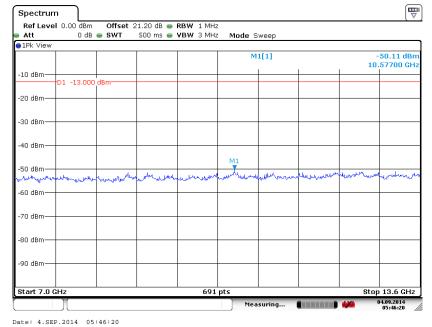
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 56 of 72
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.SEP.2014 05:45:24

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

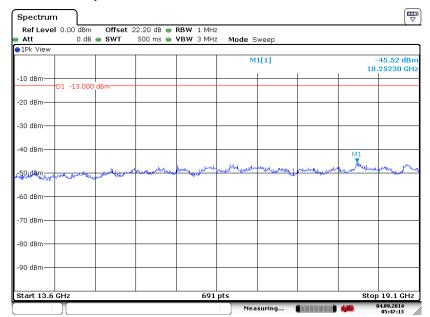


Date: 4.SEP.2014 05:46:2

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEPURE8 Page Number : 57 of 72
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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 4.SEP.2014 05:47:13

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3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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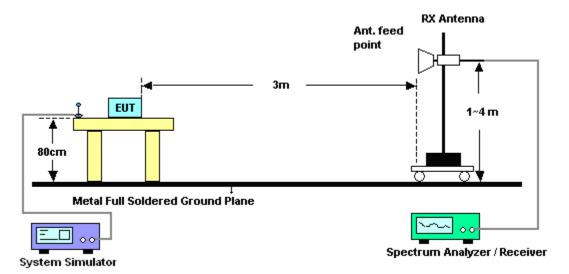
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.7.5 Test Result of Field Strength of Spurious Radiated

Band :		GSM	1850				Temperature	:	22~23°C		
Test Mode :	:	GSM	Link (GMSK)			Relative Humidity: 42~43%			3%	
Test Engine	eer :	Star \	tar Wei				Polarization : Ho		Horiz	orizontal	
Remark :		Spuri	Spurious emissions within 30-1000MHz were found more than				an 20dB below limit line.				
Frequency	ERI	P I	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm	(dB)	(dE	Si)	(H/V)	
1672	-63.0	80	-13	-50.08	-57.06	-63.73	0.57	3.3	7	Н	Pass
2510	-55.0	04	-13	-42.04	-56.20	-57.27	0.78	5.1	6	Н	Pass
3344	-64.	71	-13	-51.71	-64.34	-68.35	0.87	6.6	6	Н	Pass

Band :		GSM850				Temperature	:	22~23	3°C	
Test Mode	: 0	SSM Link (GMSK)			Relative Hum	nidity :	42~43%		
Test Engine	eer : S	Star Wei Polarization :				Vertical				
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant		Polarization	Result
(MHz)	(dBm) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Gai (dB		(H/V)	
1672	-57.2	8 -13	-44.28	-57.85	-57.93	0.57	3.3	7	V	Pass
2510	-46.8	9 -13	-33.89	-54.71	-49.12	0.78	5.1	6	V	Pass
3344	-64.3	6 -13	-51.36	-65.42	-68.00	0.87	6.6	6	V	Pass

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Band :		GSM1900				Temperature	:	22~23°C			
Test Mode	:	GSM Link (GMSK)			Relative Humidity: 42			42~43%		
Test Engine	eer :	Star Wei Polarization :					Horizo	ntal			
Remark :	,	Spurious emissions within 30-1000MHz were found more than				an 20dB below limit line.					
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna I	Polarization	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
3760	-60.9	98 -13	-47.98	-64.33	-67.36	0.78	7.1	6	Н	Pass	
5640	-57.0	06 -13	-44.06	-67.12	-65.60	1.04	9.5	8	Н	Pass	
7521	-55.6	62 -13	-42.62	-67.16	-65.73	1.35	11.4	46	Н	Pass	

Band :		GSM1900				Temperature	:	22~23	3°C	
Test Mode	:	GSM Link (GMSK)			Relative Humidity :		42~43%		
Test Engine	eer :	Star Wei Polarization :					Vertic	al		
Remark :		Spurious emissions within 30-1000MHz were found more that				ın 20dB below limit line.				
Frequency	EIRI	P Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant		Polarization	Result
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3759	-55.5	59 -13	-42.59	-63.99	-61.97	0.78	7.1	6	V	Pass
5640	-53.8	35 -13	-40.85	-66.5	-62.39	1.04	9.5	8	V	Pass
7521	-52.8	39 -13	-39.89	-66.98	-63.00	1.35	11.4	46	V	Pass

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Band :	,	WCDMA Ba	and V			Temperature	:	22~23°C			
Test Mode		RMC 12.2K	bps Link	(QPSK)		Relative Humidity :			42~43%		
Test Engine	eer:	Star Wei Polarization :				Horizontal					
Remark :	;	Spurious emissions within 30-1000MHz were found more that				an 20dB below limit line.					
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)		
1672	-68.3	88 -13	-55.38	-59.81	-69.03	0.57	3.3	37	Н	Pass	
2512	-61.0	9 -13	-48.09	-59.76	-63.32	0.78	5.1	6	Н	Pass	
3344	-66.3	36 -13	-53.36	-65.99	-70.00	0.87	6.6	6	Н	Pass	

Band :	\	WCDMA Ba	and V			Temperature	:	22~23°C		
Test Mode	: 1	RMC 12.2K	bps Link	(QPSK)		Relative Hum	42~43%			
Test Engine	eer :	Star Wei Polarization :				Vertical				
Remark :	Ş	Spurious emissions within 30-1000MHz were found more that					n 20dl	B below limit	line.	
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBm	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
1670	-66.8	36 -13	-53.86	-63.06	-67.51	0.57	3.3	7	V	Pass
2508	-52.4	3 -13	-39.43	-58.49	-54.66	0.78	5.1	6	V	Pass
3344	-64.7	' 5 -13	-51.75	-65.81	-68.39	0.87	6.6	6	V	Pass

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Band :		WCDMA B	and II			Temperature	:	22~23°C		
Test Mode	:	RMC 12.2k	(bps Link	(QPSK)		Relative Humidity: 42~43%			%	
Test Engine	eer :	Star Wei Polarization :					Horizontal			
Remark :		Spurious emissions within 30-1000MHz were found more than				an 20dB below limit line.				
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna I	Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3759	-58.2	24 -13	-45.24	-61.83	-64.62	0.78	7.1	6	Н	Pass
5637	-41.0)1 -13	-28.01	-55.44	-49.55	1.04	9.5	8	Н	Pass
7521	-55.1	15 -13	-42.15	-66.69	-65.26	1.35	11.4	46	Н	Pass

Band :	,	WCDMA Ba	and II			Temperature	:	22~23°C		
Test Mode	:	RMC 12.2K	bps Link	(QPSK)		Relative Hum	idity :	42~43%		
Test Engine	eer :	Star Wei Polarization :				Vertical				
Remark :		Spurious emissions within 30-1000MHz were found more that				in 20dB below limit line.				
Frequency (MHz)	EIRI (dBn		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result
3756	-55.0	06 -13	-42.06	-63.46	-61.44	0.78	7.1	6	V	Pass
5637	-36.1	7 -13	-23.17	-52.78	-44.71	1.04	9.5	8	V	Pass
7521	-53.1	6 -13	-40.16	-67.25	-63.27	1.35	11.4	46	V	Pass

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3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.8.2 Measuring Instruments

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

3.8.3 Test Procedures for Temperature Variation

- 1. The testing follows FCC KDB 971168 v02r01 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.4 Test Procedures for Voltage Variation

- 1. The testing follows FCC KDB 971168 v02r01 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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3.8.5 Test Setup



Thermal Chamber

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3.8.6 Test Result of Temperature Variation

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

	GS	SM	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-18	0.0347	
-20	-16	0.0323	
-10	20	0.0108	
0	19	0.0096	
10	15	0.0048	PASS
20(Ref.)	11	0.0000	
30	13	0.0024	
40	20	0.0108	
50	27	0.0191	

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

- ,	GS	SM	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-26	0.0202	
-20	-22	0.0181	
-10	-16	0.0149	
0	20	0.0043	
10	15	0.0016	PASS
20(Ref.)	12	0.0000	
30	10	0.0011	
40	16	0.0021	
50	21	0.0048	

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

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

	RMC 12	RMC 12.2Kbps			
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result		
-30	-25	0.0478			
-20	-16	0.0371			
-10	-10 0.0299				
0	16	0.0012			
10	14	0.0012	PASS		
20(Ref.)	15	0.0000			
30	11	0.0048			
40	17	0.0024			
50	22	0.0084			

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

_ ,	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-33	0.0287	
-20	-23	0.0234	
-10	-16	0.0197	
0	25	0.0021	
10	24	0.0016	PASS
20(Ref.)	21	0.0000	
30	31	0.0053	
40	35	0.0074	
50	40	0.0101	

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

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3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
0014.050		3.8	11	0.0000		
GSM 850 CH189	GSM	BEP	20	0.0108		
CITIOS		4.35	13	0.0024		
00144000		3.8	12	0.0000		
GSM 1900 CH661	GSM	BEP	23	0.0059	within	
CHOOL			4.35	14	0.0011	
	RMC 12.2Kbps	3.8	15	0.0000	authorized	PASS
WCDMA Band V CH4182		BEP	20	0.0060	band	
C114162		4.35	12	0.0036		
	RMC	3.8	21	0.0000		
WCDMA Band II		BEP	26	0.0027]	
CI 19400	CH9400 12.2Kbps		22	0.0005		

Note:

- 1. Normal Voltage = 3.8V.
- 2. Battery End Point (BEP) = 3.5 V.
- 3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	May 08, 2014	Sep. 04, 2014~ Sep. 11, 2014	May 07, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhangroup	LP-150U	HD20120425	-40°C ~150°C	Feb. 21, 2014	Sep. 04, 2014~ Sep. 11, 2014	Feb. 20, 2015	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	Sep. 03, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Sep. 03, 2014	May 03, 2015	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 08, 2014	Sep. 03, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 08, 2014	Sep. 03, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 18, 2013	Sep. 03, 2014	Nov. 17, 2014	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 10, 2014	Sep. 03, 2014	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	Sep. 03, 2014	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Dec. 10, 2013	Sep. 03, 2014	Dec. 09, 2014	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Sep. 03, 2014	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Sep. 03, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Sep. 03, 2014	NCR	Radiation (03CH01-KS)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP 7	100819	9kHz~7GHz	May 04, 2014	Aug. 28, 2014	May 03, 2015	ERP/EIRP (OTA01-KS)
Switch Control Manframe	Agilent	3499A	MY42005452	N/A	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Dual 1-to-6(4) MW MUX	Agilent	N2276A	MY42000841	N/A	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Microwave Switch	Agilent	44476A	MY42002573	N/A	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Microwave Switch	Agilent	44476A	MY42002586	N/A	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-04	00066993	700MHz~6GHz	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00066604	N/A	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Conical Log Spiral (Small)	ETS-Lindgren	3102	00066951	1~10GHz	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Turn Table	ETS-Lindgren	2088	N/A	Resolution : 0.1degree	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Limiting Amplifier	ETS-lindgren	109643	920326	10MHz~2.5GHz	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
EMQuest	ETS-Lindgren	EMQ-100	1125	N/A	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)
Medium Duty Holder	ETS-Lindgren	2015	N/A	N/A	N/A	Aug. 28, 2014	N/A	ERP/EIRP (OTA01-KS)

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Uncertainty of Evaluation 5

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

Measuring Uncertainty for a Level of	2.5
Confidence of 95% (U = 2Uc(y))	2.3

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