

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: **GSM Mobile Phone**

BRAND NAME : BLU MODEL NAME : Diva X

FCC ID : YHLBLUDIVAX

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 01, 2013 and completely tested on Apr. 27, 2013. 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 compliance with the applicable technical standards.

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

Reviewed by:

Jones Tsai / Manager



Report No.: FG340101

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 1 of 50
Report Issued Date : May 22, 2013

TABLE OF CONTENTS

RE	VISIC	N HISTORY	3
SU	ММА	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	
	1.5	Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	
	1.6	Testing Site	
	1.7	Applied Standards	6
2	TES	Γ CONFIGURATION OF EQUIPMENT UNDER TEST	7
	2.1	Test Mode	7
	2.2	Connection Diagram of Test System	8
	2.3	Support Unit used in test configuration and system	9
	2.4	Measurement Results Explanation Example	9
3	TES	Γ RESULT	10
	3.1	Conducted Output Power Measurement	10
	3.2	Peak-to-Average Ratio	
	3.3	Effective Radiated Power and Effective Isotropic Radiated Power Measurement	16
	3.4	99% Occupied Bandwidth and 26dB Bandwidth Measurement	19
	3.5	Band Edge Measurement	27
	3.6	Conducted Spurious Emission Measurement	
	3.7	Field Strength of Spurious Radiated Measurement	
	3.8	Frequency Stability for Temperature and Voltage Measurement	45
4	LIST	OF MEASURING EQUIPMENT	49
5	UNC	ERTAINTY OF EVALUATION	50
ΑP	PEND	DIX A. PHOTOGRAPHS OF EUT	
ΑP	PEND	DIX B. SETUP PHOTOGRAPHS	

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 2 of 50
Report Issued Date : May 22, 2013

Report No. : FG340101



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG340101	Rev. 01	Initial issue of report	May 22, 2013



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	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	3.3 §24.232(c) Equivalent Isotropic Radiated Power		< 2 Watts	PASS	-
3.4	\$2.1049 3.4		N/A	PASS	-
3.5	\$2.1051 3.5 \$22.917(a) Band Edge Measurement \$24.238(a)		< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1051 Conducted Spurious		< 43+10log ₁₀ (P[Watts])	PASS	-
3.7	§2.1053 Field Strength of Spurious		< 43+10log ₁₀ (P[Watts])	PASS	Under limit 21.12 dB at 1672.000 MHz
3.8	§2.1055 §22.355 §24.235	Frequency Stability for Temperature and Voltage	< 2.5 ppm	PASS	-

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 4 of 50
Report Issued Date : May 22, 2013

Report No. : FG340101



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 Technology Corp.

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

Report No.: FG340101

1.3 Feature of Equipment Under Test

	Due direct Factions					
Product Feature						
Equipment	GSM Mobile Phone					
Brand Name	BLU					
Model Name	Diva X					
FCC ID	YHLBLUDIVAX					
EUT supports Radios application	GSM/GPRS/Bluetooth					
HW Version	V1.0					
SW Version	B2060A_PP_F2F3F5F8_EN_28_01					
EUT Stage	Identical Prototype					

Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two different types of EUT. They are single SIM card mobile and dual SIM cards mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we choose dual SIM card mobile to perform all test. For the dual SIM card mobile, after pre-scan two SIM cards, we found test result with SIM1 card was the worst, so we choose SIM1 card to perform all tests.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz				
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz				
Maximum Output Power to Antenna	GSM850 : 32.49 dBm GSM1900 : 30.42 dBm				
Antenna Type	Fixed Internal Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK				

Page Number

: 5 of 50

SPORTON INTERNATIONAL (SHENZHEN) INC.



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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (%, Hz, ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.8872	0.02 ppm	246KGXW
Part 24	GSM1900 GSM	GMSK	1.8578	0.02 ppm	248KGXW

1.6 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				
	Sporton		FCC/IC Registration No.		
Test Site No.	TH01-SZ 03CH01-SZ		831040		

1.7 Applied 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 v01

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.

SPORTON INTERNATIONAL (SHENZHEN) INC. Page Number : 6 of 50 TEL: +86-755-3320-2398 FCC ID: YHLBLUDIVAX

Report Issued Date: May 22, 2013 Report Version : Rev. 01



Test Configuration of Equipment Under Test 2

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 is rotated on three test planes to find out the worst emission.

Report No.: FG340101

Frequency range investigated for radiated emission is as follows:

- 30 MHz to 9000 MHz for GSM850.
- 2. 30 MHz to 19000 MHz for GSM1900.

Test Modes						
Band	Radiated TCs	Conducted TCs				
GSM 850	■ GSM Link	■ GSM Link				
GSM 1900	■ GSM Link	■ GSM Link				

Note: The maximum power levels are GSM mode for GMSK link, only these modes were used for all tests.

The conducted power tables are as follows:

For Single SIM Card

Conducted Power (*Unit: dBm)								
Band	Band GSM850				GSM1900			
Channel	Channel 128 189 251		512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8		
GSM	<mark>32.34</mark>	32.26	32.33	29.89	29.96	<mark>30.06</mark>		
GPRS 8	32.33	32.26	32.33	29.88	29.94	30.05		
GPRS 10	31.01	30.94	31.02	28.57	28.84	28.95		
GPRS 11	29.86	29.75	29.81	27.34	27.68	27.76		
GPRS 12	29.02	28.93	29.01	26.54	26.85	26.98		

For Dual SIM Card with SIM 1 Card

Conducted Power (*Unit: dBm)								
Band		GSM850			GSM1900			
Channel	Channel 128 189 251		512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8		
GSM	<mark>32.49</mark>	32.42	32.48	30.14	30.34	<mark>30.42</mark>		
GPRS 8	32.48	32.41	32.47	30.07	30.29	30.36		
GPRS 10	31.12	31.04	31.13	28.82	29.09	29.25		
GPRS 11	29.97	29.86	29.92	27.62	27.89	27.99		
GPRS 12	29.17	29.06	29.14	26.84	27.09	27.19		

SPORTON INTERNATIONAL (SHENZHEN) INC. : 7 of 50 Page Number TEL: +86-755-3320-2398 Report Issued Date: May 22, 2013 Report Version : Rev. 01

FCC ID: YHLBLUDIVAX

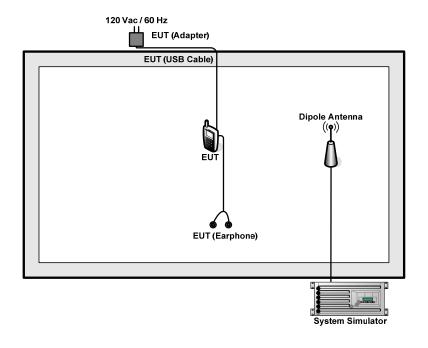


Report No. : FG340101

For Dual SIM Card with SIM 2 Card

Conducted Power (*Unit: dBm)								
Band		GSM850			GSM1900			
Channel	thannel 128 189 251		512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8		
GSM	<mark>32.49</mark>	32.41	32.47	30.11	30.32	<mark>30.40</mark>		
GPRS 8	32.48	32.40	32.47	30.05	30.26	30.34		
GPRS 10	31.12	31.04	31.12	28.81	29.09	29.23		
GPRS 11	29.97	29.85	29.91	27.60	27.87	27.98		
GPRS 12	29.16	29.06	29.13	26.81	27.08	27.17		

2.2 Connection Diagram of Test System



TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 8 of 50
Report Issued Date : May 22, 2013
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.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Agilent	E5515C	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.

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 4.2 dB and 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$4.2 + 10 = 14.2$$
 (dB)

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 9 of 50
Report Issued Date : May 22, 2013

Report No.: FG340101



3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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.

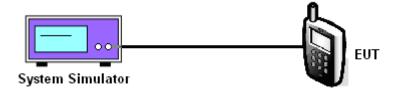
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup



SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: +86-755-3320-2398

FCC ID: YHLBLUDIVAX

Page Number : 10 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

3.1.5 Test Result of Conducted Output Power

Cellular Band				
Modes	GSM850 (GSM)			
Channel	128 (Low) 189 (Mid) 251 (High)			
Frequency (MHz)	824.2	836.4	848.8	
Conducted Power (dBm)	32.49	32.42	32.48	
Conducted Power (Watts)	1.77	1.75	1.77	

PCS Band				
Modes	GSM1900 (GSM)			
Channel	512 (Low) 661 (Mid) 810 (High)			
Frequency (MHz)	1850.2	1880	1909.8	
Conducted Power (dBm)	30.14	30.34	30.42	
Conducted Power (Watts)	1.03	1.08	1.10	

Note: maximum burst average power for GSM.

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 11 of 50
Report Issued Date : May 22, 2013

Report No. : FG340101



3.2 Peak-to-Average Ratio

Description of the PAR Measurement

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

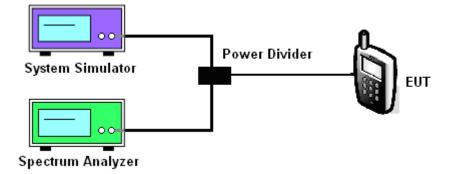
3.2.2 Measuring Instruments

See list of measuring instruments 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.
- 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. TEL: +86-755-3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 12 of 50 Report Issued Date: May 22, 2013 Report Version : Rev. 01

3.2.5 Test Result of Peak-to-Average Ratio

PCS Band					
Modes	GSM1900 (GSM)				
Channel	512 (Low)	512 (Low) 661 (Mid) 810 (High)			
Frequency (MHz)	1850.2	1880	1909.8		
Peak-to-Average Ratio (dB)	0.27	0.28	0.28		

Report No. : FG340101

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 13 of 50TEL: +86-755- 3320-2398Report Issued Date: May 22, 2013FCC ID: YHLBLUDIVAXReport Version: Rev. 01

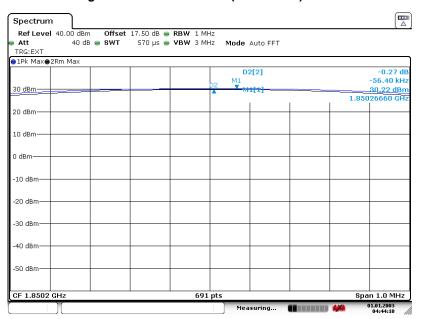


3.2.6 Test Result (Plots) of Peak-to-Average Ratio

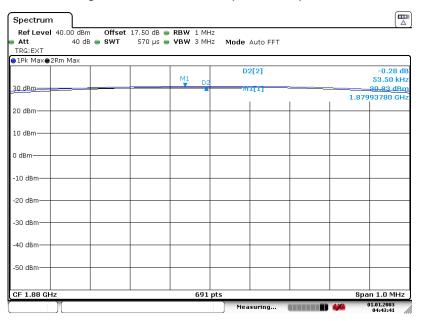
Band: GSM 1900 Test Mode: GSM Link

Report No. : FG340101

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

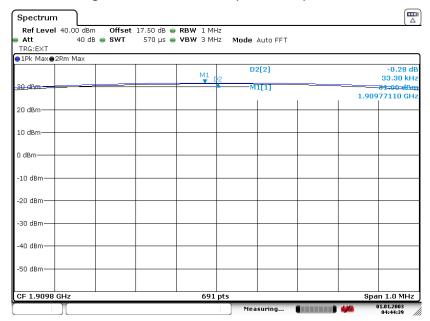


Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 14 of 50TEL: +86-755- 3320-2398Report Issued Date: May 22, 2013FCC ID: YHLBLUDIVAXReport Version: Rev. 01

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



TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 15 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

Effective Radiated Power and Effective Isotropic Radiated Power 3.3 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 v01. 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

See list of measuring instruments 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; 3. 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.
- Taking the record of maximum ERP/EIRP. 6.
- 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.
- Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna. 9.
- 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.

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

Page Number : 16 of 50 Report Issued Date: May 22, 2013

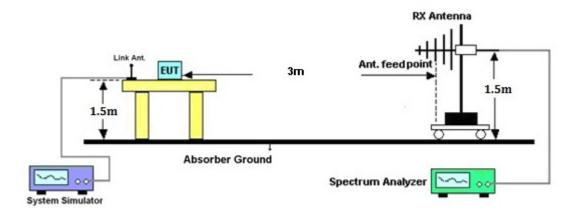
Report No.: FG340101

FCC ID: YHLBLUDIVAX



Report No. : FG340101

3.3.4 Test Setup



TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 17 of 50
Report Issued Date : May 22, 2013
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	-19.09	-48.12	0.00	-1.08	27.95	0.6237
836.40	-18.51	-48.28	0.00	-0.93	28.84	0.7656
848.80	-18.11	-48.35	0.00	-0.76	29.48	0.8872
		Ve	ertical Polarization	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-35.87	-47.97	0.00	-1.08	11.02	0.0126
836.40	-35.36	-48.01	0.00	-0.93	11.72	0.0149
848.80	-34.76	-48.05	0.00	-0.76	12.53	0.0179

3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-22.35	-51.88	0.00	1.96	31.49	1.4093
1880.00	-23.25	-52.99	0.00	2.00	31.74	1.4928
1909.80	-24.01	-54.28	0.00	1.98	32.25	1.6788
		Ve	ertical Polarization	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-22.02	-52.13	0.00	1.96	32.07	1.6106
1880.00	-22.92	-53.17	0.00	2.00	32.25	1.6788
1909.80	-23.42	-54.13	0.00	1.98	32.69	1.8578

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

FCC ID : YHLBLUDIVAX

Page Number : 18 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

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

3.4.2 Measuring Instruments

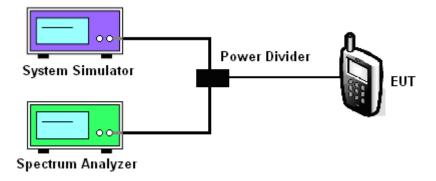
See list of measuring instruments of this test report.

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 and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

3.4.4 Test Setup

FCC ID: YHLBLUDIVAX



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

Report Issued Date: May 22, 2013 Report Version: Rev. 01

: 19 of 50

Page Number

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

Cellular Band				
Modes		GSM850 (GSM)		
Channel	128 (Low)	128 (Low) 189 (Mid) 251 (High)		
Frequency (MHz)	824.2	836.4	848.8	
99% OBW (KHz)	244.00	244.00	246.00	
26dB BW (KHz)	310.00	312.00	314.00	

Report No.: FG340101

PCS Band					
Modes		GSM1900 (GSM)			
Channel	512 (Low)	512 (Low) 661 (Mid) 810 (High)			
Frequency (MHz)	1850.2	1880	1909.8		
99% OBW (KHz)	242.00	248.00	248.00		
26dB BW (KHz)	306.00	304.00	312.00		

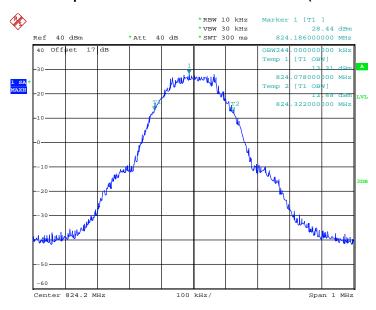
SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 20 of 50TEL:+86-755- 3320-2398Report Issued Date: May 22, 2013FCC ID: YHLBLUDIVAXReport Version: Rev. 01



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

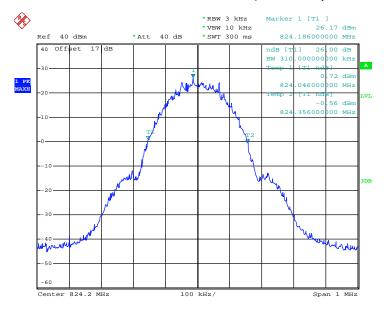
Band :	GSM 850	Test Mode :	GSM Link

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



Date: 2.APR.2013 23:38:12

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 2.APR.2013 19:05:11

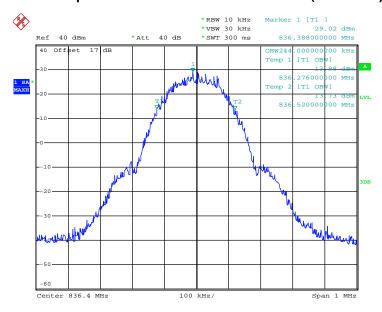
TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 21 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



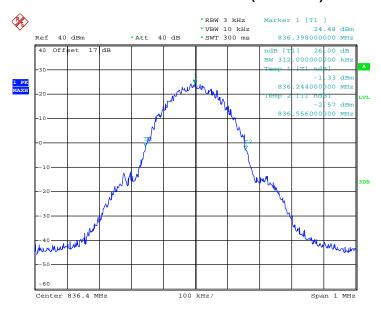
Report No.: FG340101

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



Date: 2.APR.2013 23:40:28

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 2.APR.2013 19:06:46

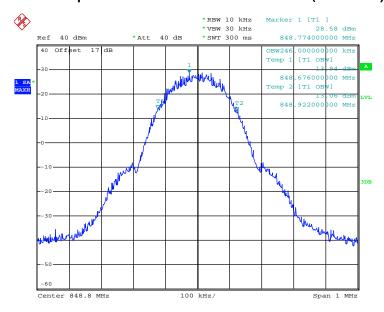
TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 22 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



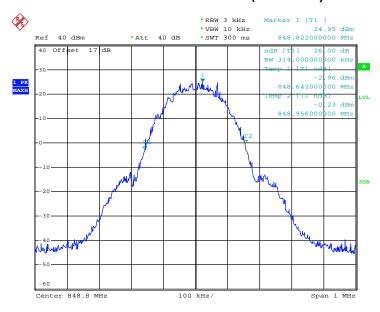
Report No. : FG340101

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



Date: 2.APR.2013 23:47:28

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 2.APR.2013 19:08:48

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

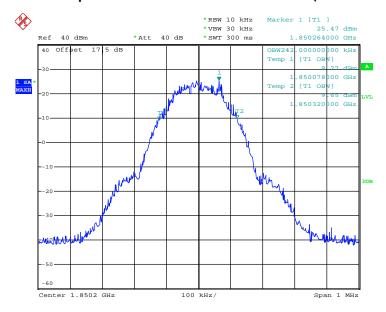
Page Number : 23 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



FCC RF Test Report

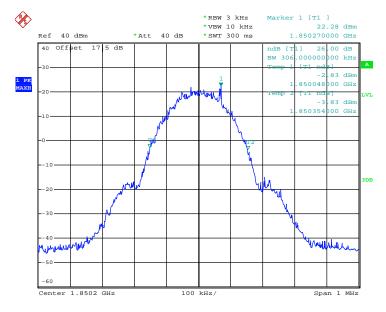
Band: GSM 1900 Test Mode: GSM Link

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



Date: 2.APR.2013 23:27:24

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 2.APR.2013 23:14:15

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

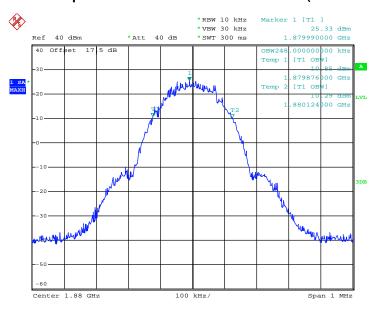
Page Number : 24 of 50
Report Issued Date : May 22, 2013

Report No. : FG340101



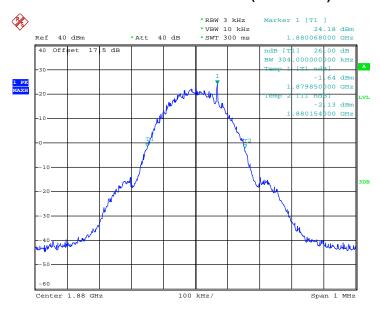
Report No. : FG340101

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



Date: 2.APR.2013 23:20:42

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

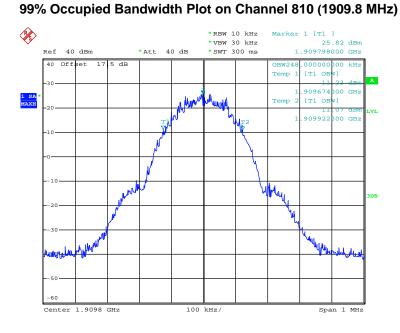


Date: 2.APR.2013 23:12:12

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

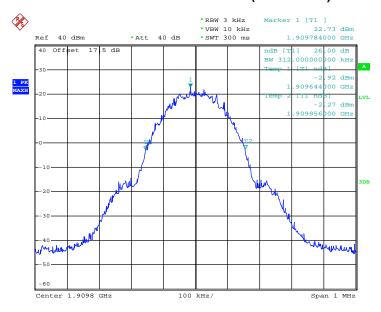
Page Number : 25 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01





Date: 2.APR.2013 23:29:31

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 2.APR.2013 23:16:10

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 26 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

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

3.5.2 Measuring Instruments

See list of measuring instruments 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



TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 27 of 50
Report Issued Date : May 22, 2013

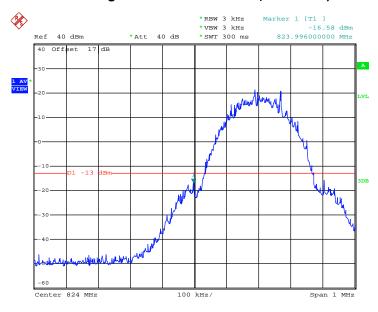
Report No.: FG340101



3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth:	0.314MHz
Band Edge :	-16.38dBm	Measurement Value :	-16.58dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 2.APR.2013 19:56:03

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

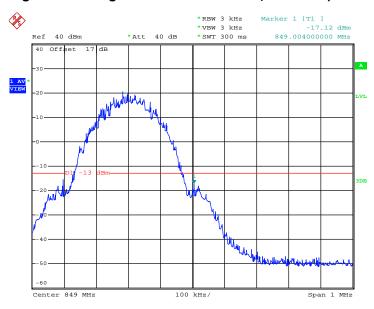
For example, -16.58dBm + 0.20dB = -16.38dBm

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX Page Number : 28 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.92dBm	Measurement Value :	-17.12dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 2.APR.2013 20:04:22

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

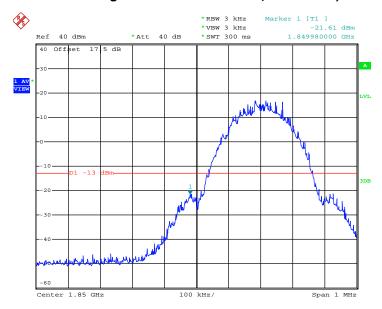
TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 29 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth:	0.312MHz
Band Edge :	-21.44dBm	Measurement Value :	-21.61dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 2.APR.2013 20:10:10

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

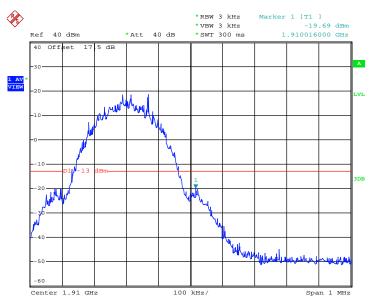
TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 30 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-19.52dBm	Measurement Value :	-19.69dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 2.APR.2013 20:16:48

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

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 31 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Measuring Instruments

See list of measuring instruments 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.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 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.
- 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.

3.6.4 Test Setup



TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 32 of 50
Report Issued Date : May 22, 2013

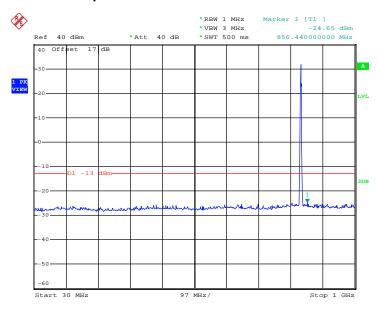
Report No.: FG340101



3.6.5 Test Result (Plots) of Conducted Spurious Emission

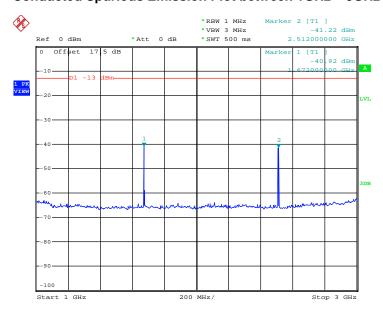
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2013 21:43:25

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



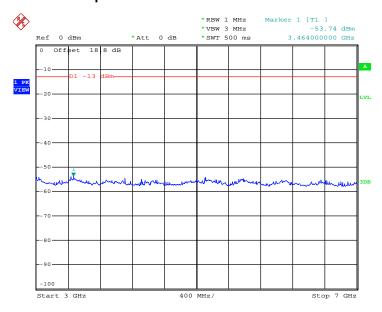
Date: 2.APR.2013 21:35:53

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX Page Number : 33 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



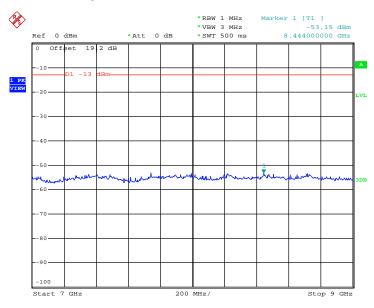
Report No. : FG340101

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 2.APR.2013 21:37:25

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 2.APR.2013 21:39:04

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

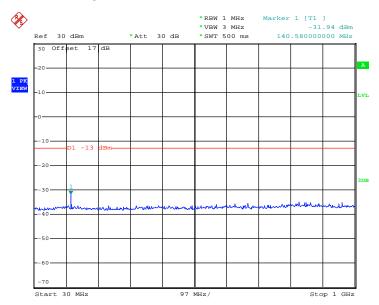
Page Number : 34 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



FCC RF Test Report

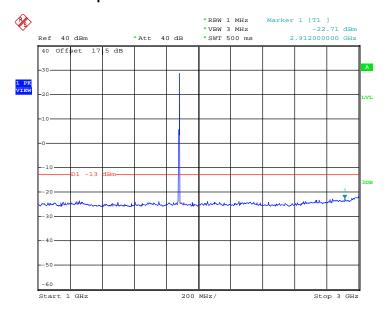
Band:	GSM1900	Channel:	CH661
Test Mode :	GSM Link	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2013 21:21:15

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



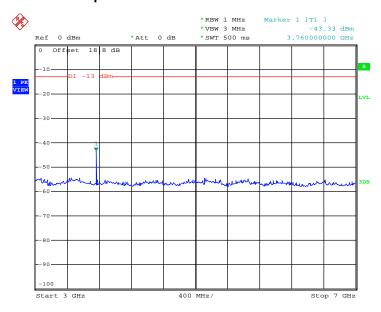
Date: 2.APR.2013 21:26:32

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX Page Number : 35 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



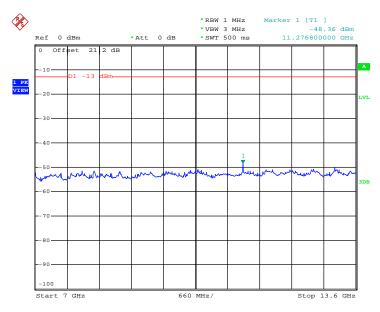
Report No. : FG340101

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 2.APR.2013 21:28:38

Conducted Emission Plot between 7GHz ~ 13.6GHz



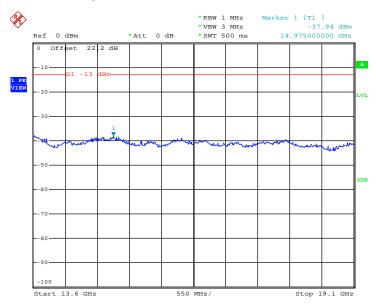
Date: 2.APR.2013 21:29:38

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 36 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 2.APR.2013 21:30:56

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 37 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

3.7 Field Strength of Spurious Radiated 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.

Report No.: FG340101

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

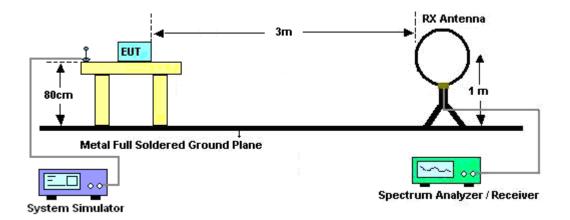
3.7.3 Test Procedures

- 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

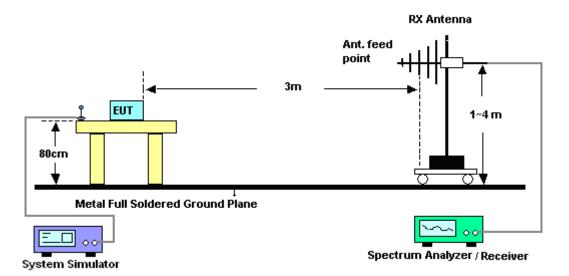


3.7.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



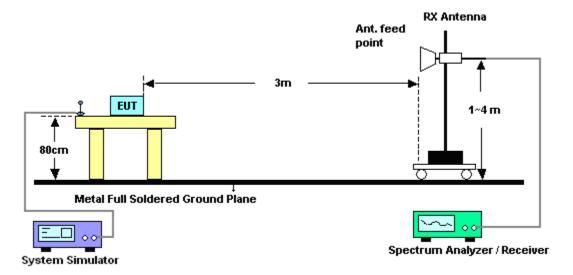
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 39 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



For radiated emissions above 1GHz



3.7.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

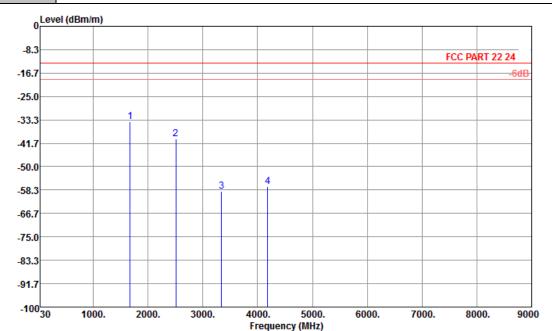
Page Number : 40 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01



3.7.6 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	24~26°C		
Test Mode :	GSM Link	Relative Humidity :	45~47%		
Test Engineer :	John Zheng	Polarization :	Horizontal		
Domark :	Spurious emissions within 20 1000MHz were found more than 20dP helew limit line				

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



Site : 03CH01-SZ

Condition : FCC PART 22 24 3m HF EIRP H-130101 HORIZONTAL

Project : (FG) 340101

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	-34.12	-13	-21.12	-51.01	-37.09	0.88	6.00	Н	Pass
2510	-40.04	-13	-27.04	-64.38	-42.65	1.08	5.84	Н	Pass
3345	-58.78	-13	-45.78	-69.38	-63.15	1.14	7.66	Н	Pass
4182	-57.08	-13	-44.08	-71.84	-62.35	1.37	8.79	Н	Pass

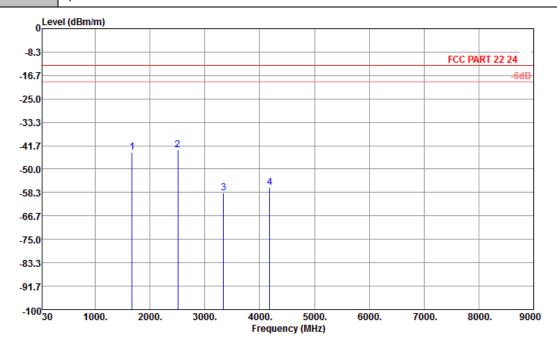
TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 41 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

Report No. : FG340101

Band :	GSM850	Temperature :	24~26°C
Test Mode :	GSM Link	Relative Humidity :	45~47%
Test Engineer :	John Zheng	Polarization :	Vertical

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



Site : 03CH01-SZ

Condition : FCC PART 22 24 3m HF EIRP V-130101 VERTICAL

Project : (FG) 340101

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	-44.09	-13	-31.09	-57.45	-47.06	0.88	6.00	V	Pass
2510	-43.18	-13	-30.18	-64.63	-45.79	1.08	5.84	V	Pass
3345	-58.51	-13	-45.51	-70.34	-62.88	1.14	7.66	V	Pass
4182	-56.44	-13	-43.44	-71.66	-61.71	1.37	8.79	V	Pass

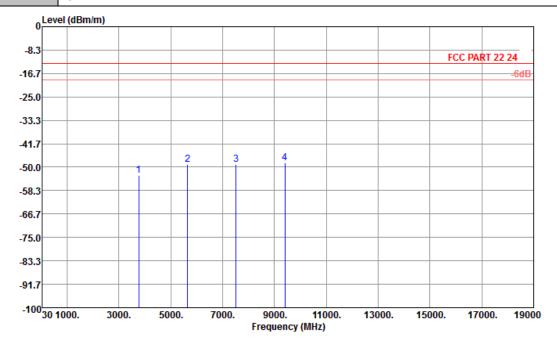
TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 42 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

Report No. : FG340101

Band :	GSM1900	Temperature :	24~26°C
Test Mode :	GSM Link	Relative Humidity :	45~47%
Test Engineer :	John Zheng	Polarization :	Horizontal

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



Site : 03CH01-SZ

Condition : FCC PART 22 24 3m HF EIRP H-130101 HORIZONTAL

Project : (FG) 340101

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	-52.93	-13	-39.93	-65.08	-59.67	1.28	8.02	Н	Pass
5640	-48.96	-13	-35.96	-66.95	-57.38	1.58	10.00	Н	Pass
7520	-49.01	-13	-36.01	-70.95	-59.33	1.78	12.10	Н	Pass
9400	-48.56	-13	-35.56	-70.68	-59.34	2.22	13.00	Н	Pass

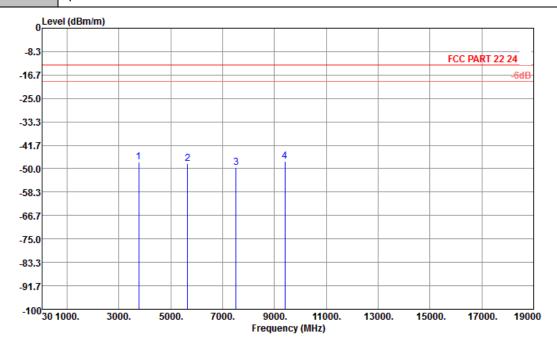
TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 43 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

Report No. : FG340101

Band :	GSM1900	Temperature :	24~26°C
Test Mode :	GSM Link	Relative Humidity :	45~47%
Test Engineer :	John Zheng	Polarization :	Vertical
			•

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



Site : 03CH01-SZ

Condition : FCC PART 22 24 3m HF EIRP V-130101 VERTICAL

Project : (FG) 340101

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	-47.71	-13	-34.71	-62.74	-54.45	1.28	8.02	V	Pass
5640	-48.32	-13	-35.32	-65.4	-56.74	1.58	10	V	Pass
7520	-49.46	-13	-36.46	-71.71	-59.78	1.78	12.1	V	Pass
9400	-47.24	-13	-34.24	-70.86	-58.02	2.22	13	V	Pass

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 44 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

Report No.: FG340101

3.8 Frequency Stability for Temperature and Voltage 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

See list of measuring instruments 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.

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.

If the EUT cannot be turned on at -30°C, the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

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: YHLBLUDIVAX

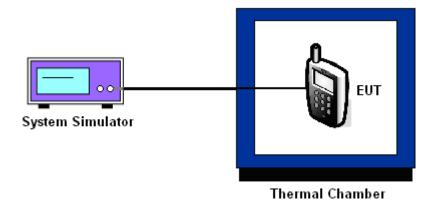
Page Number : 45 of 50
Report Issued Date : May 22, 2013

Report No.: FG340101

Report Version : Rev. 01



3.8.5 Test Setup



TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 46 of 50
Report Issued Date : May 22, 2013
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

	GSN		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-17	-0.02	
-20	-15	-0.02	
-10	-16	-0.02	
0	-13	-0.02	
10	-14	-0.02	PASS
20	-14	-0.02	
30	-16	-0.02	
40	-15	-0.02	
50	-16	-0.02	

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

	GSN		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-34	-0.02	
-20	-31	-0.02	
-10	-27	-0.01	
0	-25	-0.01	
10	-26	-0.01	PASS
20	-21	-0.01	
30	-22	-0.01	
40	-24	-0.01	
50	-25	-0.01	

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 47 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

Report No.: FG340101

3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GSM	3.7	-16	-0.02	2.5	PASS
		BEP	-15	-0.02		
		4.2	-17	-0.02		
GSM 1900 CH661	GSM	3.7	-26	-0.01		
		BEP	-24	-0.01		
		4.2	-27	-0.01		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.5 V.

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : 48 of 50
Report Issued Date : May 22, 2013
Report Version : Rev. 01

Report No.: FG340101



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	Apr. 02, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
System Simulator	Agilent	E5515C	MY50264168	GSM/WCDMA /CDMA2000	Oct. 09, 2012	Apr. 02, 2013	Oct. 08, 2013	Conducted (TH01-SZ)
DC Power Supply	TOPWORD	3303DR	N/A714621	N/A	Mar. 28, 2013	Apr. 02, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	N/A	Mar. 28, 2013	Apr. 02, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9K-3GHz	Mar. 28, 2013	Apr. 09, 2013~ Apr. 27, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP30	101362	9kHz~30GHz	Oct. 11, 2012	Apr. 09, 2013~ Apr. 27, 2013	Oct. 10, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30Mhz~2Ghz	Nov. 03, 2012	Apr. 09, 2013~ Apr. 27, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Double Ridge Horn Amtenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 12, 2012	Apr. 09, 2013~ Apr. 27, 2013	Oct. 11, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9K-3000MHz GAIN 30db	Mar. 28, 2013	Apr. 09, 2013~ Apr. 27, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Apr. 09, 2013~ Apr. 27, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA917 0249	14Ghz~40Ghz	Nov. 23, 2012	Apr. 09, 2013~ Apr. 27, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100321	9KHZ-30MHZ	Oct. 22, 2012	Apr. 09, 2013~ Apr. 27, 2013	Oct. 21, 2013	Radiation (03CH01-SZ)
System Simulator	Agilent	E5515C	MY50264168	GSM/WCDMA /CDMA2000	Oct. 09, 2012	Apr. 09, 2013~ Apr. 27, 2013	Oct. 08, 2013	Radiation (03CH01-SZ)

Report No.: FG340101

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 49 of 50TEL:+86-755- 3320-2398Report Issued Date: May 22, 2013

FCC ID : YHLBLUDIVAX Report Version : Rev. 01



FCC RF Test Report

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.54
Confidence of 95% (U = 2Uc(y))	2.54

Report No. : FG340101

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 50 of 50TEL: +86-755- 3320-2398Report Issued Date: May 22, 2013FCC ID: YHLBLUDIVAXReport Version: Rev. 01

Appendix A. Photographs of EUT

Please refer to Sporton report number EP340101 as below.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: +86-755- 3320-2398 FCC ID: YHLBLUDIVAX

Page Number : A1 of A1 Report Issued Date : May 22, 2013

Report No.: FG340101

Report Version : Rev. 01