

# TEST REPORT

REPORT NUMBER: I10GC0429-FCC-PART15B

ON

**Type of Equipment:** GSM/GPRS/EGPRS mobile phone  
**Type of Designation:** Sonim XP1300-A-R1  
**Type Name:** P25B005AA  
**Manufacturer:** Sonim Technologies, Inc

ACCORDING TO

Part 15B: Radio Frequency Devices, Oct 1, 2009

China Telecommunication Technology Labs.

*Month date, year*

Sep, 30, 2010

*Signature*

A handwritten signature in black ink, appearing to read 'He Guili', written over a white background.

He Guili

Director

**FCC ID:** WYPP25B005AA

**Report Date:** 2010-09-30

**Test Firm Name:** China Telecommunication Technology Labs

**Registration Number:** 840587

#### Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 15B. The sample tested was found to comply with the requirements defined in the applied rules.

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## 1 General Information

### 1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 15B.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

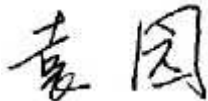
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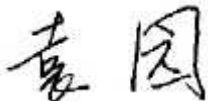
FCC Parts 15B  
Equipment: Sonim XP1300-A-R

REPORT NO.: I10GC0429-FCC-PART15B

## 1.2 Testers

Name: Yuan Yuan  
Position: Engineer  
Department: Department of EMC test  
Signature: 

Editor of this test report:

Name: Yuan Yuan  
Position: Engineer  
Department: Department of EMC test  
Date: 2010-09-30  
Signature: 

Technical responsibility for area of testing:

Name: Zou Dongyi  
Position: Manager  
Department: Department of EMC test  
Date: 2010-09-30  
Signature: 

### 1.3 Testing Laboratory information

#### 1.3.1 Location

Name: China Telecommunication Technology Labs.  
Address: No. 11, Yue Tan Nan Jie, Xi Cheng District  
BEIJING  
P. R. CHINA, 100083  
Tel: +86 10 68094053  
Fax: +86 10 68011404  
Email: [emc@chinattl.com](mailto:emc@chinattl.com)

#### 1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity  
Assessment (CNAS)  
Registration number: CNAS Registration No. CNAS L0570  
Standard: ISO/IEC 17025:2005

#### 1.3.3 Test location, where different from section 1.3.1

Name: -----  
Street: -----  
City: -----  
Country: -----  
Telephone: -----  
Fax: -----  
Postcode: -----

## 1.4 Details of applicant or manufacturer

### 1.4.1 Applicant

Name: Sonim Technologies, Inc  
Address: 1875 S. Grant Street, Suite 800 San Mateo, CA 94402  
Country: United States  
Telephone: +1 650 504 4411  
Fax: +1 650 378 8190  
Contact: Jasen Klev  
Telephone: +1 650 504 4411  
Email: jasen@sonimtech.com

### 1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --  
Address: --

### 1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: --  
Address: --

## 2 Test Item

### 2.1 General Information

Manufacturer: Sonim Technologies, Inc  
Name: GSM/GPRS/EGPRS mobile phone  
Model Number: Sonim XP1300-A-R1  
Serial Number: --  
Production Status: Production  
Receipt date of test item: 2010-09-01

### 2.2 Outline of EUT

E.U.T. is a GSM850/ PCS1900 Dual-band Terminal Equipment with Bluetooth.

### 2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

### 2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Mobile phone	Sonim Technologies, Inc	Sonim XP1300-A-R1	--	None
B	Battery	Sunwoda Electronic Co., Ltd.	XP-0001100	--	None
C	Adaptor	Dee Van Enterprises Co., Ltd.	DSA-3RNA-05 FUS 050065	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.2 m	No	1	None

### 2.5 Other Information

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### 3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Specification Clause	Name of Test	Result
15.109	Radiated Emission	Pass
15.107	Conducted Emission	Pass
Note: The EUT complies with the requirements of the Class B digital devices.		

## 4 Test Results

### 4.1 Radiated Emission

Specifications:	15.109, ANSI C63.4-2003					
Date of Tests	2010-08-30					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2011-01-11	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2010-11-17	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	2011-06-08	Normal

#### Limit Level Construction:

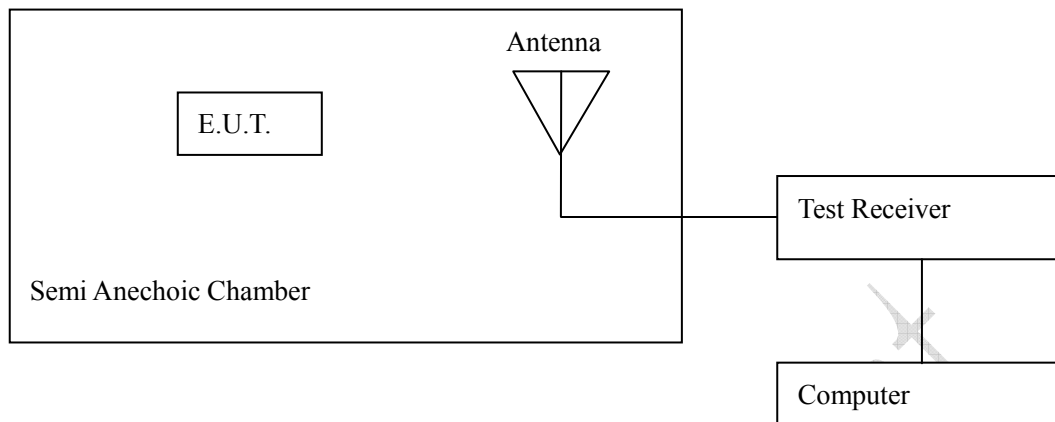
According to Part 15.109(a).

#### Limits

Frequency [MHz]	Field Strength [ $\mu$ V/m]	Field Strength [dB $\mu$ V/m]	Measurement distance [m]
30 -88	100	40.0	3
88-216	150	43.5	3
216 – 960	200	46.0	3
Above 960	500	54.0	3

Note: The tighter limit applies at the band edges.

## Test Configuration



The measuring distance between E.U.T and antenna is 3m.

## Test Setup:

The EUT was placed in an anechoic chamber, see figure RE. The EUT is tested as tabletop EUT. The EUT is positioned on an 80cm height wood table.

The EUT is used as the peripheral equipment of the PC.

The setup is according to Figure 11a of ANSI C63.4-2003.

The Wireless Communications Test Set (Test Simulator) was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

The test was done using an automated test system, where all test equipments were controlled by a computer.



Figure RE

## Test Method

During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2003. The measurement was done by the automated test system.

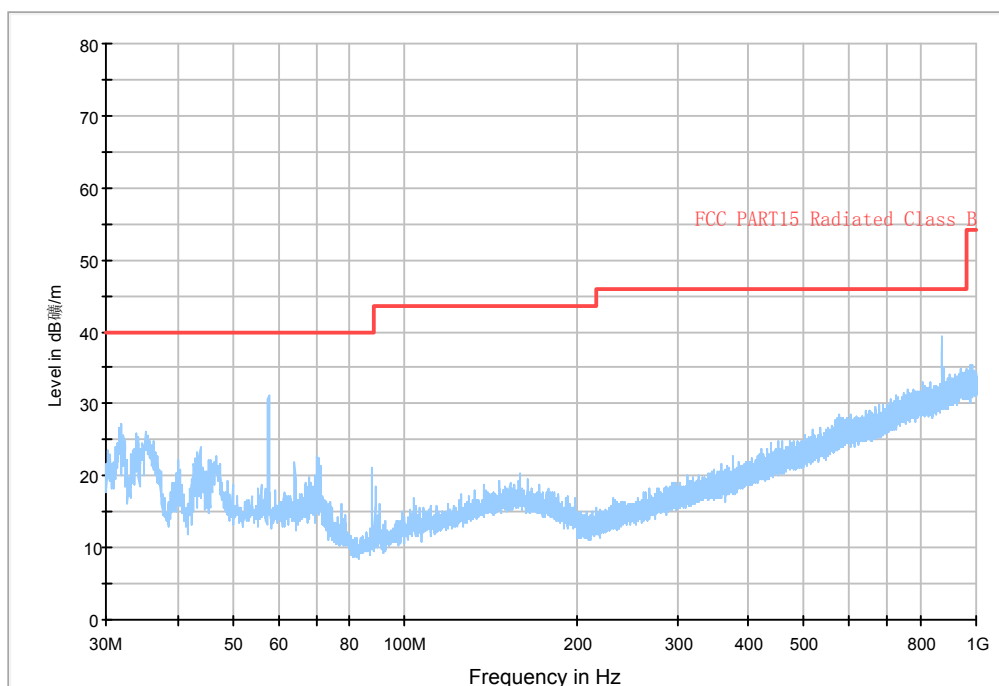
Note: --

## Test Data:

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Antenna Height [cm]	Turntable Azimuth [degree]	Antenna Polarisation (V/H)
--	--	--	--	--	--
Remarks: --					

## Graphical Results:

FCC



Graphical results

## 4.2 Conducted Emission

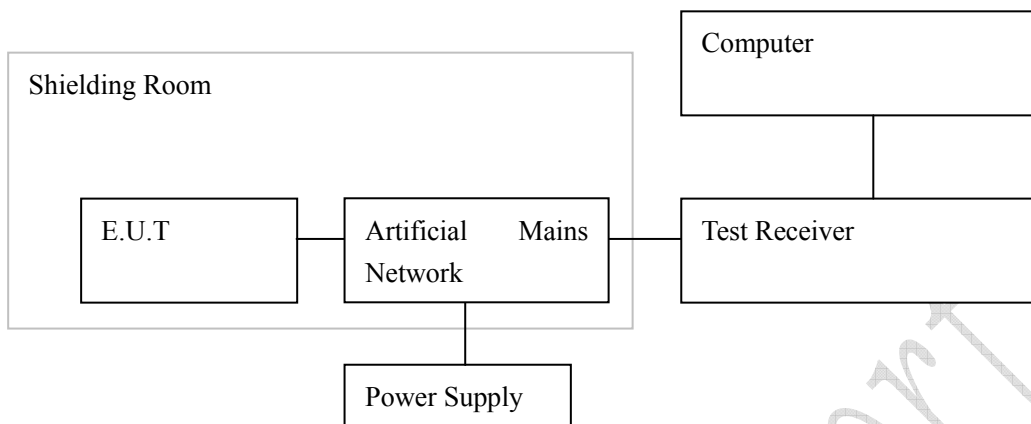
Specifications:	15.107, ANSI C63.4-2003					
Date of Tests	2010-08-09					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7330	EMI Test Receiver	R/S	ESI40	839283/007	2011-02-25	Normal
7330	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2011-01-08	Normal
714	Shielding Room	ETS	--	19003	2010-11-16	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	2011-06-08	Normal

**Limit Level Construction:**  
According to Part 15.107 (a)

Limits for Conducted Emission		
Frequency of Emission [MHz]	Conducted limit [dBμV]	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

\* Decreases with the logarithm of the frequency.

## Test Configuration



### Test Setup:

The EUT was placed in a shielding room, see figure CE. The EUT is positioned on an 80cm height wood table. The EUT is used as the peripheral equipment of the PC.

The setup is according to Figure 10a of ANSI C63.4-2003.

The Wireless Communications Test Set (Test Simulator) was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The test was done using an automated test system, where all test equipments were controlled by a computer.



Figure CE

Test Method:

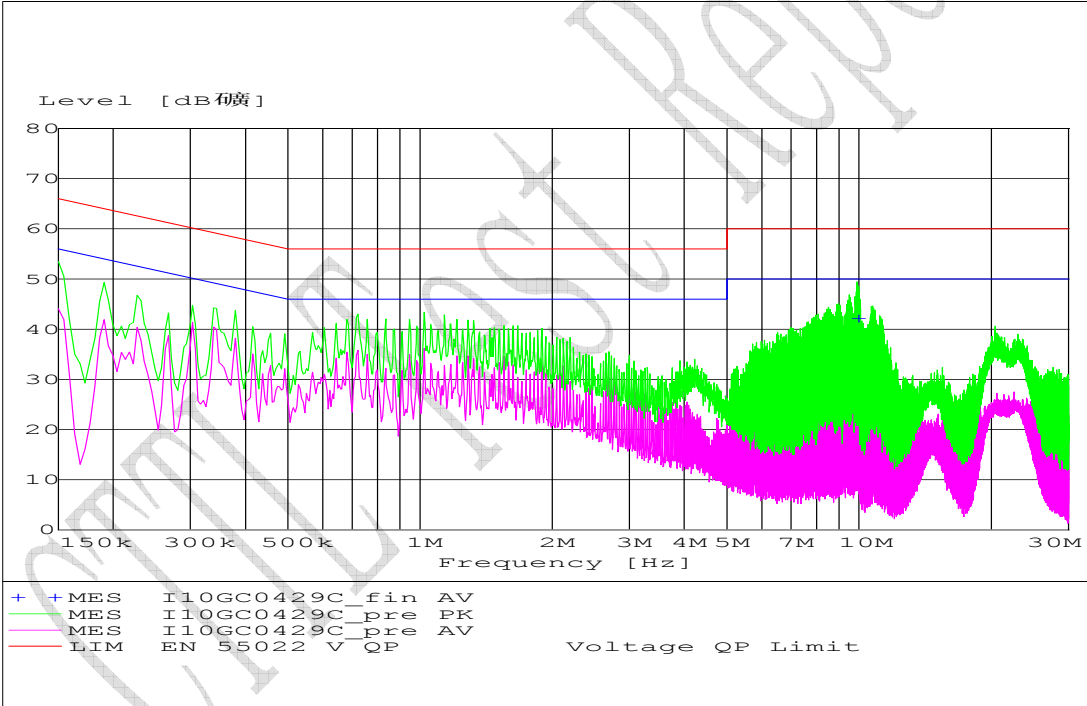
During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2003. The AC power line of the Notebook was connected to the artificial mains network then to EMI receiver. The measurement was done by the automated test system.

Note: --

Test Data:

Detector (QP/AV)	Frequency (MHz)	Level (dBµV)	Limit (dBµV)	Margin (dB)	Line	PE
AV	9.888000	42.20	50	7.8	L1	GND
Remarks: --						

Graphical results:



CE graphical results



## Annex A External Photos



Front view



Back view



FCC Parts 15B  
Equipment: Sonim XP1300-A-R

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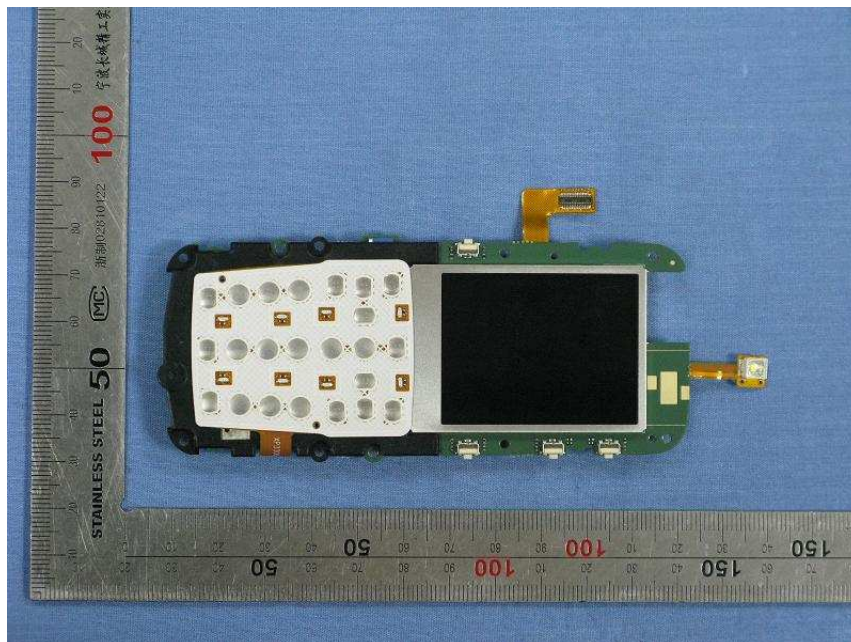


Adaptor and Cable

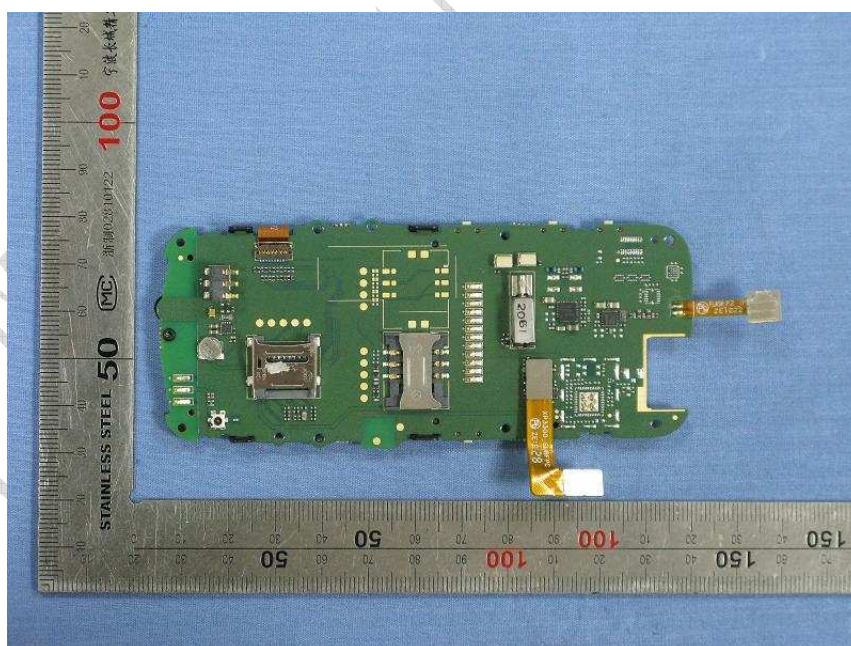


Battery

## Annex B Internal Photos



Main board (face)



Main board (back)

## ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

\_\_\_\_\_ The End of this Report \_\_\_\_\_

CTL Test Report