

TEST REPORT

REPORT NUMBER: I11GC0421-FCC-BT-3

ON

Type of Equipment: GSM/GPRS/EGPRS mobile phone

Model Number: Sonim XP3300-A-X1

Type Number: P25C005AJ

Manufacturer: Sonim Technologies, Inc

ACCORDING TO

FCC Part 15, Subpart C, Oct-1-2010:

15.205 Restricted bands of operation,

15.209 Radiated emission limits; general requirements,

15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.4-2003, Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

FCC Public Notice DA 00-705, March-2000, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

China Telecommunication Technology Labs.

Month date, year Sep 30, 2011

Signature

He Guili **Director**



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

FCC ID: WYPP25C005AJ

Report Date: 2011-09-30

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 Parts 15, subpart C. The sample tested was found to comply with the requirements defined in the applied rules.



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

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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 Parts 15, subpart C and ANSI C63.4-2003 and FCC DA 00-705.

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 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

1.2 Testers

Name: Li Guoqing

Position: Engineer

Department: Department of EMC test

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Name: Yuan Yuan

Position: Engineer

Department: Department of EMC test

Signature:

Editor of this test report:

Name: Li Guoqing

Position: Engineer

Department: Department of EMC test

Date: 2011-09-30

Signature: 李国庆

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Name: Zou Dongyi

Position: Manager

Department: Department of EMC test

Date: 2011-09-30

Signature: / / / / / /

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FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705

Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC0421-FCC-BT-3

1.3 Testing Laboratory information

					io	

Name: China Telecommunication Technology Labs.

No. 11, Yue Tan Nan Jie, Xi Cheng District Address:

BEIJING

P. R. CHINA, 100083

Tel: +86 10 68094053

Fax: +86 10 68011404

Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity

Assessment (CNAS)

Registration number: CNAL Registration No.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:



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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 Kolev
Telephone:	+1 650 504 4411
Email:	jasen@sonimtech.com
1.4.2 Manufacturer (if d	lifferent from applicant in section 1.4.1)
Name:	
Address:	
<	

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: Address:



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2 Test Item

2.1 General Information

Manufacturer: Sonim Technologies, Inc

Name: GSM/GPRS/EGPRS mobile phone

Model Number: Sonim XP3300-A-X1

Type Number: P25C005AJ

Serial Number:

Production Status: Production Receipt date of test item: 2011-06-27

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	Туре	Serial No.	Remarks
А	Mobile phone	Sonim Technologies, Inc	Sonim XP3300-A-X1		None
В	Battery	Sunwoda Electronic Co., Ltd.	XP-0001100	-	None
С	Adaptor	Dee Van Enterprises Co., Ltd.	DSA-3RNA-05 FUS 050065		None

2.5 Other Information



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

3 Summary of Test Results

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

	Name of Test	Result	
1、	Peak power	Pass	
2、	Band edge (conducted)	Pass	
3、	Frequency separation	Pass	
4、	Number of hopping frequency	Pass	
5、	Time of occupancy	Pass	
6、	Spurious emission (conducted)	Pass	
7、	Spurious emission (radiated)	Pass	
8、	Power line Conducted Emissions	Pass	
Note: none			



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

4 Test Results

4.1 Peak power

Specifi	cations:	15.247 (b)	15.247 (b)(3)(i),(ii)and(iii)					
Date o	f Tests	2011-09-30	2011-09-30					
Test co	onditions:	Ambient Te	Ambient Temperature:15℃-35℃					
		Relative Hu	Relative Humidity: 30%-60%					
		Air pressur	e: 86-106kPa					
Operat	ion Mode	Fix channel transmit						
Test R	esults:	Pass			0	\		
Test ed	quipment Used	d:				7		
Asset	Description	Manufacturer	Model Number	Serial Number	Cal Due	State		
Number	Description	Manufacturer	Model Number	Serial Nulliber	Cai Due	State		
7805	EMI Test Receiver	R/S	R/S ESI40 839283/007 2012-02-15 Normal					
7330	BLUETOOTH TESTER	R/S	СВТ	100657	2012-01-28	Normal		

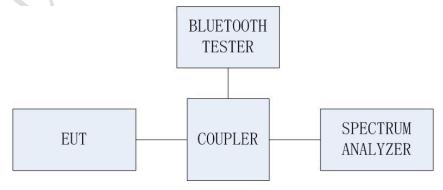
LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902 \sim 928 MHz, 2400 \sim 2483.5 MHz, and 5725 \sim 5850 MHz: 1 watt.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Setup:

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupler.





FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

Test procedure:

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to the peak detector mode. The RBW is set to 3MHz. The VBW is set to 3MHz.

The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2003. Test Results:

GFSK:

channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low: 0	2402.11022	-4.12	30	Pass
Middle: 39	2440.68938	-2.02	30	Pass
High: 78	2479.98998	-4.61	30	pass

Pi/4 DQPSK:

channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low: 0	2402.13026	-4.76	30	Pass
Middle: 39	2440.96994	-2.49	30	Pass
High: 78	2480.07014	-5.19	30	pass

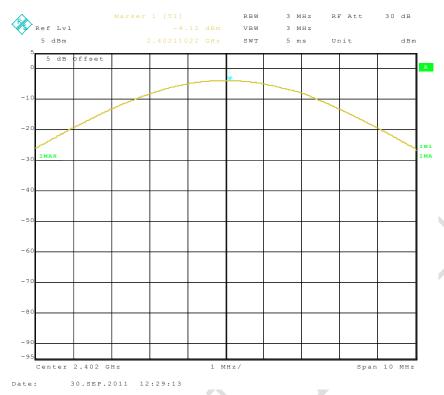
8DPSK:

channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low: 0	2401.82966	-5.00	30	Pass
Middle: 39	2441.01002	-2.83	30	Pass
High: 78	2479.92986	-5.51	30	pass



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Test plots:



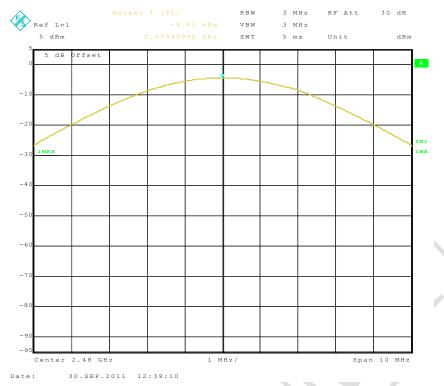
GFSK Channel 0



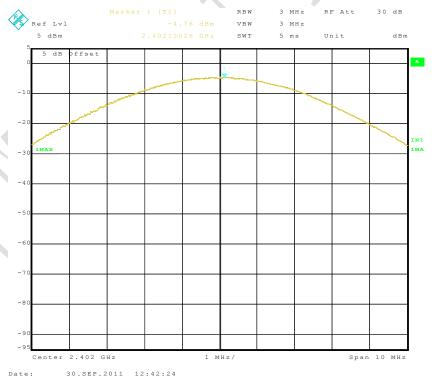
GFSK Channel 39



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GFSK Channel 78



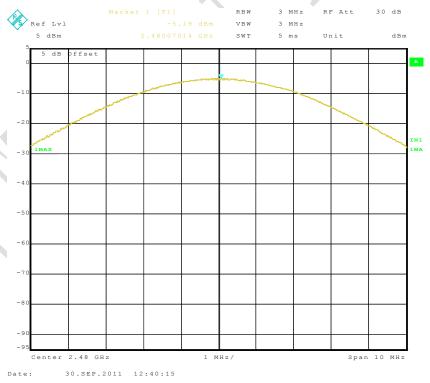
Pi/4 DQPSK Channel 0



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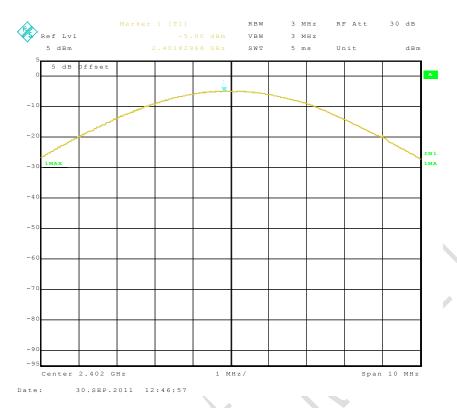
Pi/4 DQPSK Channel 39



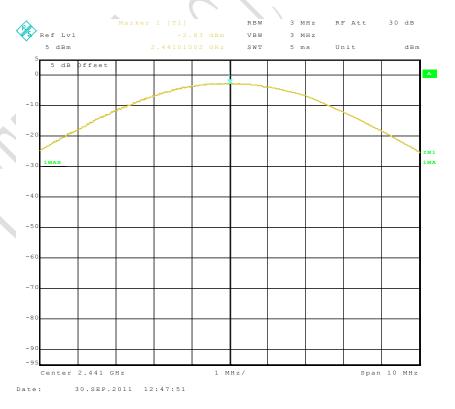
Pi/4 DQPSK Channel 78



REPORT NO.: I11GC0421-FCC-BT-3



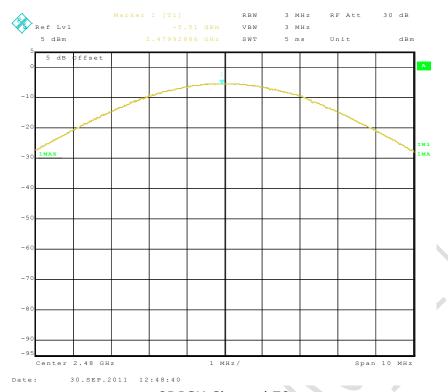
8DPSK Channel 0



8DPSK Channel 39



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8DPSK Channel 78



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4.2 Band edges (conducted)

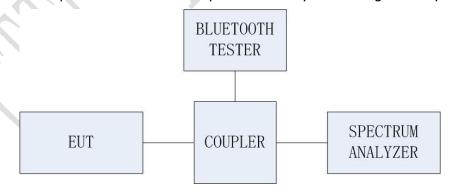
Specifi	ications:	15.247 (d)	15.247 (d)					
Date o	f Tests	2011-09-2	2011-09-26					
Test co	onditions:	Ambient Temperature:15℃-35℃						
		Relative Humidity:30%-60%						
		Air pressur	Air pressure: 86-106kPa					
Operat	tion Mode	Maximum transmit						
Test R	esults:	Pass						
Test ed	quipment Used	d:			X			
Asset	Description	Manufacturer	Model Number	Serial Number	Cal Due	Chata		
Number	Description	Manufacturer	Model Number	Serial Number	Cai Due	State		
7805	EMI Test Receiver	R/S	ESI40	839283/007	2012-02-15	Normal		
7330	BLUETOOTH	R/S	СВТ	100657	2012-01-28	Normal		

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Setup:

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.



Test procedure:

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to the peak detector mode. The spectrum analyzer is set to:

- 1. Span = 10 MHz
- 2. RBW = 100 KHz
- 3. VBW = 300 KHz
- 4. Sweep = auto

The measurement is made according to Public notice FCC Public Notice



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

DA 00-705, March 2000, and ANSI C63.4-2003.

GFSK

Hopping mode	Channel	Band-edge	Delta	Results
Tropping mode	Chamilei	Freq.[MHz]	dB	
Hopping OFF	0, Left band-edge	2399.98597	-51.35	Pass
Hopping ON	, Left band-edge	2399.90581	-52.76	Pass
Hopping OFF	78, Right band-edge	2484.01804	-53.28	Pass
Hopping ON	, Right band-edge	2483.83768	-53.93	Pass

Pi/4 DQPSK

Hopping mode	Channel	Band-edge Freq.[MHz]	Delta dB	Results
Hopping OFF	0, Left band-edge	2399.96593	-50.44	Pass
Hopping ON	, Left band-edge	2399.90581	-51.18	Pass
Hopping OFF	78, Right band-edge	2483.57715	-52.67	Pass
Hopping ON	, Right band-edge	2483.69739	-52.47	Pass

8DPSK

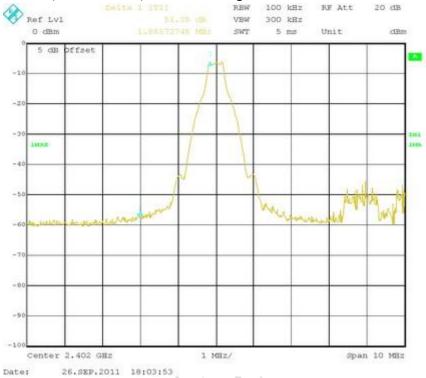
Hopping mode	Channel	Band-edge Freq.[MHz]	Delta dB	Results
Hopping OFF	0, Left band-edge	2399.845691	-51.22	Pass
Hopping ON	, Left band-edge	2399.92585	-52.64	Pass
Hopping OFF	78, Right band-edge	2484.39880	-53.54	Pass
Hopping ON	, Right band-edge	2483.57715	-50.90	Pass



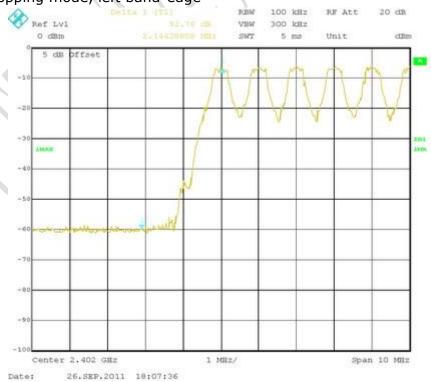
FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

Test plots:

GFSK Channel 0, fixed mode, left band-edge



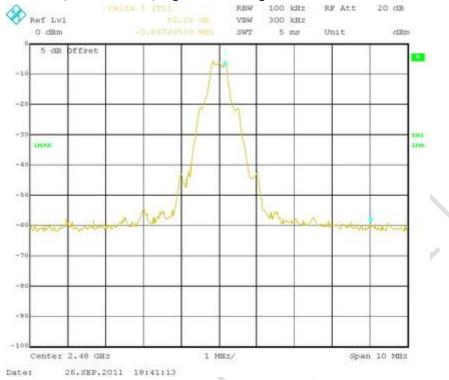
GFSK Hopping mode, left band-edge



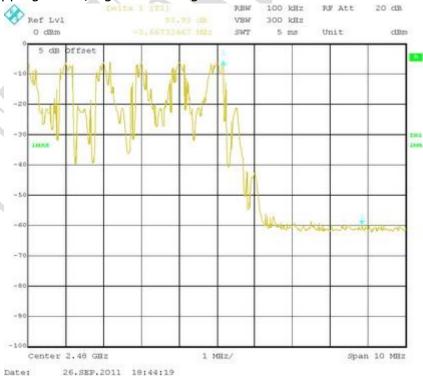


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GFSK Channel 78, fixed mode, right band-edge



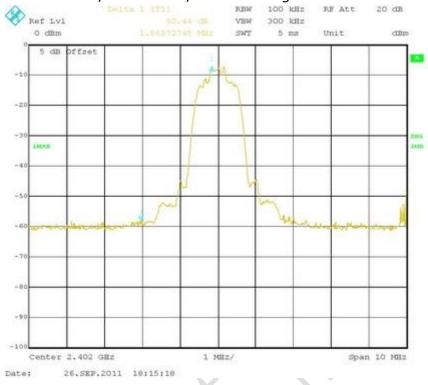
GFSK Hopping mode, right band-edge



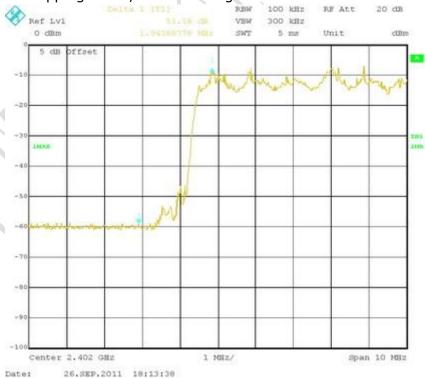


REPORT NO.: I11GC0421-FCC-BT-3

Pi/4 DQPSK Channel 0, fixed mode, left band-edge



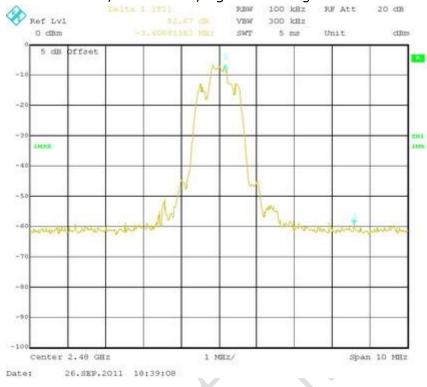
Pi/4 DQPSK Hopping mode, left band-edge



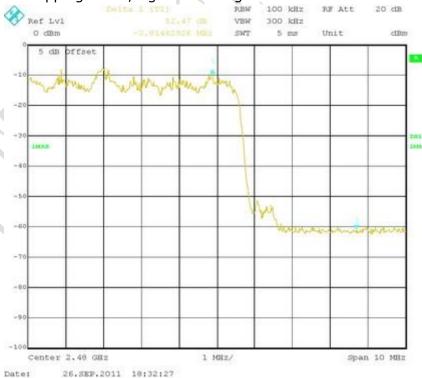


REPORT NO.: I11GC0421-FCC-BT-3

Pi/4 DQPSK Channel 78, fixed mode, right band-edge



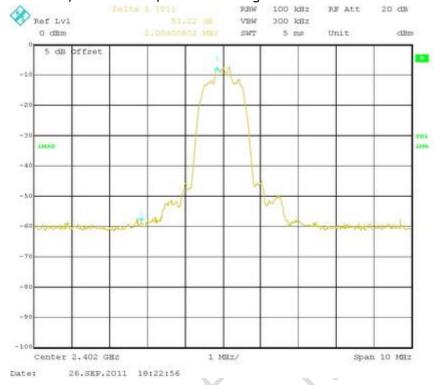
Pi/4 DQPSK Hopping mode, right band-edge



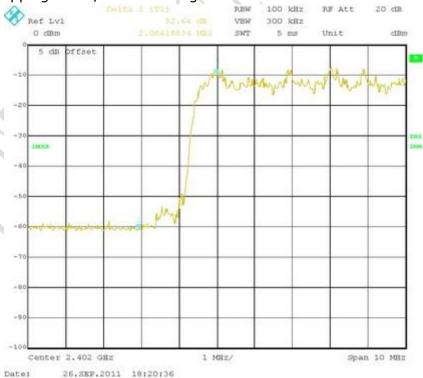


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8DPSK Channel 0, fixed mode, left band-edge



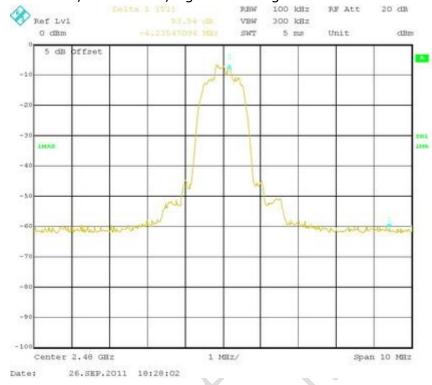
8DPSK Hopping mode, left band-edge



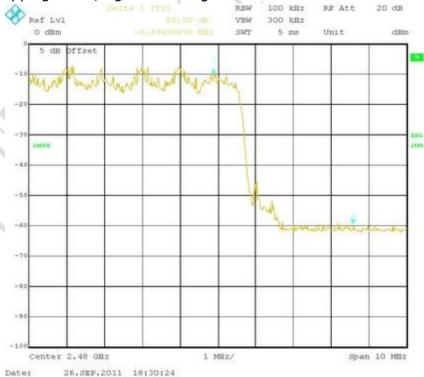


REPORT NO.: I11GC0421-FCC-BT-3

8DPSK Channel 78, fixed mode, right band-edge



8DPSK Hopping mode, right band-edge





FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

4.3 Frequency separation

Specifications:	15.247(a)(1)				
Date of Test	2011-09-26				
Test conditions:	Ambient Temperature:15°C-35°C				
	Relative Humidity:30%-60%				
	Air pressure: 86-106kPa				
Operation Mode	maximum transmit				
Test Results:	Pass				
Test equipment Used:					

Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI40	839283/007	2012-02-15	Normal
7330	BLUETOOTH TESTER	R/S	СВТ	100657	2012-01-28	Normal

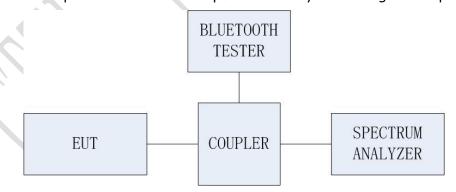
LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or 2/3 of the 20 dB bandwidth of the hopping channel (note), whichever is greater.

Note: it is for the power of less than 125 mw, and for others it is 20 dB bandwidth of the hopping channel.

Test Setup

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.



TEST PROCEDURE

The spectrum analyzer is set to:

- 1. 20dBc Bandwidth: Span = 3 MHz, RBW=20 kHz, VBW=50 kHz, Sweep=auto.
- 2. Carrier Frequency Separation: Span = 3 MHz, RBW=100 kHz, VBW=300 kHz, Sweep=auto.

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2003.



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

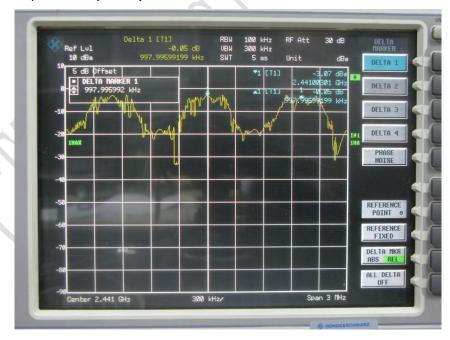
Test Result:

20dBc bandwidth

Zoabe barrawiach				
Channel separation	20dB Bandwidth		Limit	Result
•	(kh	1Z)	(kHz)	
GFSK				
	Ch 0	1046	>25	Pass
998	Ch 39	1040	>25	Pass
	Ch 78	1040	>25	Pass
Pi/4 DQPSK				
	Ch 0	1106	>25	Pass
991	Ch 39	1100	>25	Pass
	Ch 78	1106	>25	Pass
8DPSK				
	Ch 0	1178	>25	Pass
998	Ch 39	1184	>25	Pass
	Ch 78	1178	>25	Pass

Test plots:

Channel Separation (GFSK)





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20dB Bandwidth (GFSK Ch 0)



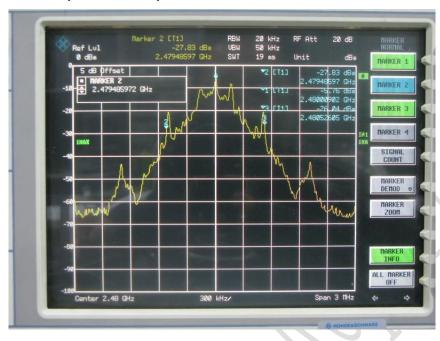
20dB Bandwidth (GFSK Ch 39)





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20dB Bandwidth (GFSK Ch 78)



Channel Separation (Pi/4 DQPSK)





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20dB Bandwidth (Pi/4 DQPSK Ch0)



20dB Bandwidth (Pi/4 DQPSK Ch39)





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20dB Bandwidth (Pi/4 DQPSK Ch78)



Channel Separation (8DPSK)





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20dB Bandwidth (8DPSK Ch0)



20dB Bandwidth (8DPSK Ch39)





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20dB Bandwidth (8DPSK Ch78)





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4.4 Number of hopping frequency

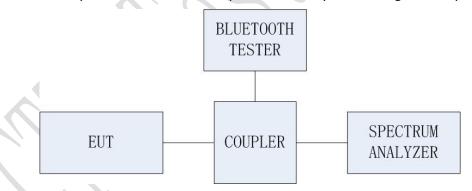
Specific	cations:	15.247(a)(1)(ii)					
Date of	Test	2011-09-2	2011-09-26				
Test co	nditions:	Ambient Temperature:15℃-35℃					
		Relative Humidity:30%-60%					
		Air pressure: 86-106kPa					
Operati	ion Mode	hopping					
Test Re	esults:	Pass					
Test eq	uipment Used	:			X		
Asset	Description	Manufacturer	Model Number	Serial Number	Cal Due	State	
Number	Description	Manufacturer Model Number Serial Number Cal Due State					
7805	EMI Test Receiver	R/S	R/S ESI40 839283/007 2012-02-15 Normal				
7330	BLUETOOTH	R/S	СВТ	100657	2012-01-28	Normal	

LIMIT

According to $\S15.247(a)(1)(ii)$, Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands shall use at least 15 hopping frequencies.

Test Setup

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.



TEST PROCEDURE

The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer was set to:

- 1. Span = the frequency band of operation, i.e. $2400\sim2441 \text{MHz}$ and $2441\sim2484 \text{ MHz}$
- 2. RBW = 500 KHz
- 3. VBW = 500 KHz
- 4. Sweep = auto

The trace was allowed to stabilize.

The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2003.



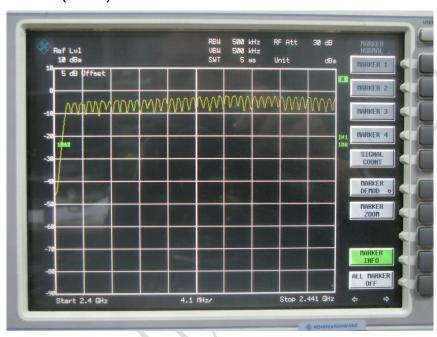
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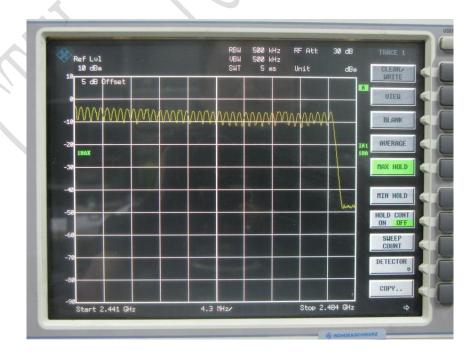
Test Result:

Modulation	No. OF channels	Limit (No. of Ch)	Result
GFSK	79	>75	Pass
Pi/4 DQPSK	79	>75	Pass
8DPSK	79	>75	Pass

Test plot:

Channel Number(GFSK)

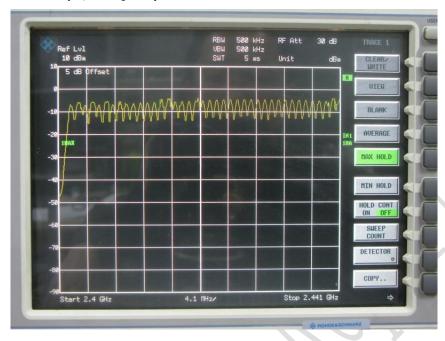


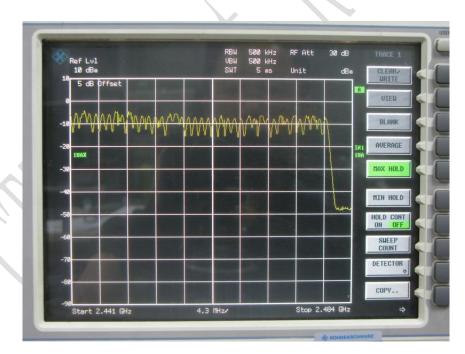




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Channel Number(Pi/4 DQPSK)

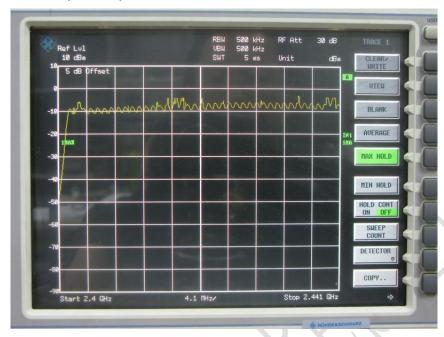


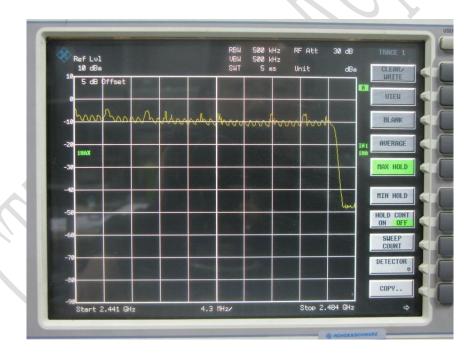




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Channel Number(8DPSK)







2012-01-28

Normal

100657

FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

R/S

4.5 Time of occupancy

TESTER

Specific	cations:	15.247(a)(1)(iii)					
Date of	Test	2011-09-2	2011-09-27				
Test co	nditions:	Ambient Te	Ambient Temperature:15°C-35°C				
		Relative Humidity:30%-60%					
		Air pressure: 86-106kPa					
Operat	ion Mode	Fix channel					
Test Re	esults:	Pass					
Test eq	uipment Used	l:			X		
Asset	Description	Manufacturer	Madal Number	Carial Number	A Col Pus	Chaha	
Number	Description	Manufacturer Model Number Serial Number Cal Due State					
7805	EMI Test Receiver	R/S	R/S ESI40 839283/007 2012-02-15 Normal				
7220	BLUETOOTH	D/C	CDT	100657	2012 01 20	Normani	

LIMIT

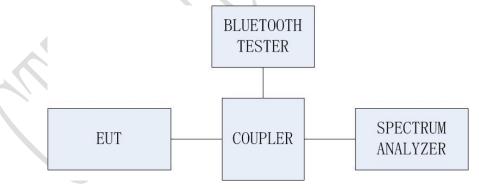
7330

According to $\S15.247(a)(1)(iii)$, Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

CBT

Test Setup

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.



TEST PROCEDURE

The spectrum analyzer is set to:

- 1. Span = zero span
- 2. RBW = 1 MHz
- 3. VBW = 3 MHz
- 4. Sweep = as necessary to capture the entire dwell time per channel The marker-delta function was used to determine the dwell time.

The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2003.



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

Test Result:

GFSK DH1:

0.3788*(1600/2)/79*31.6=121ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
0.3788	121	31.6	PASS

GFSK DH3:

1.641*(1600/4)/79*31.6=263ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
1.641	263	31.6	PASS

GFSK DH5:

2.884*(1600/6)/79*31.6=308ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
2.884	308	31.6	PASS

Pi/4 DQPSK DH1:

0.3848*(1600/2)/79*31.6=123ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
0.3848	123	31.6	PASS

Pi/4 DOPSK DH3:

1.639*(1600/4)/79*31.6=262ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
1.639	262	31.6	PASS

Pi/4 DQPSK DH5:

2.886*(1600/6)/79*31.6=308ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
2.886	308	31.6	PASS



FCC Parts 15 subpart C, ANSI C63.4-2003, FCC DA 00-705 Equipment: Sonim XP3300-A-X1

8DPSK DH1:

0.3868*(1600/2)/79*31.6=124ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
0.3868	124	31.6	PASS

8DPSK DH3:

1.641*(1600/4)/79*31.6=263ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
1.641	263	31.6	PASS

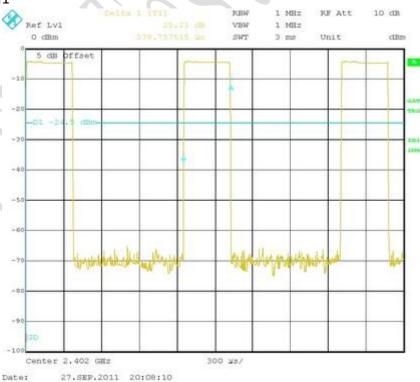
8DPSK DH5:

2.886*(1600/6)/79*31.6=308ms

Pulse	Total	Period	result
time[ms]	dwell[ms]	time[s]	
2.886	308	31.6	PASS

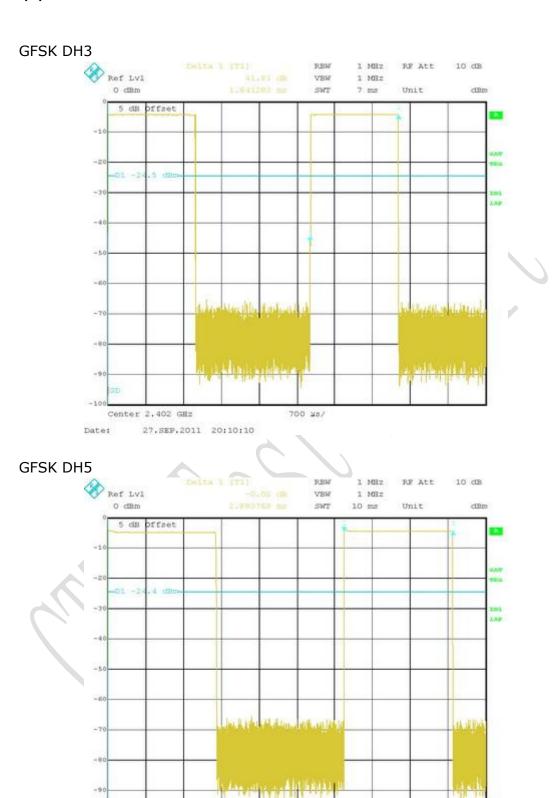
Test data:

GFSK DH1





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1 ms/

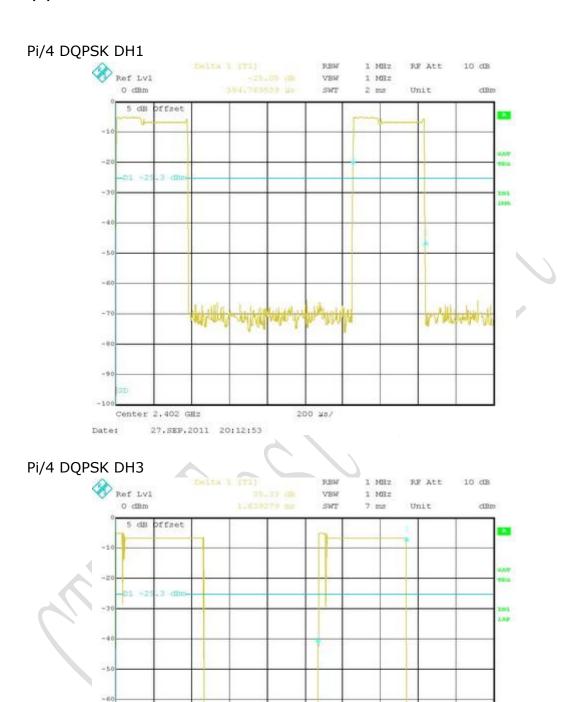
Center 2,402 GHz

Date:

27.SEP.2011 20:11:17



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700 45/

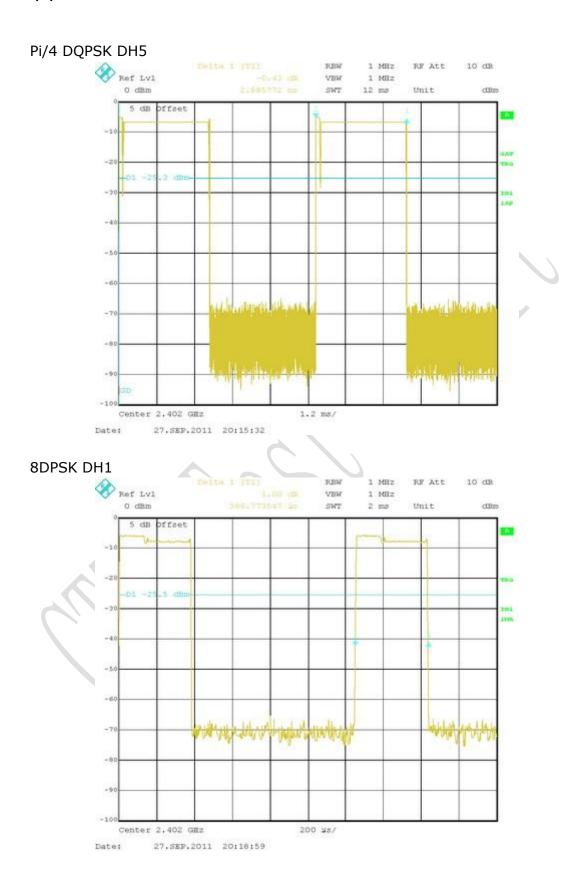
Center 2,402 GHz

Date:

27.SEP.2011 20:14:27

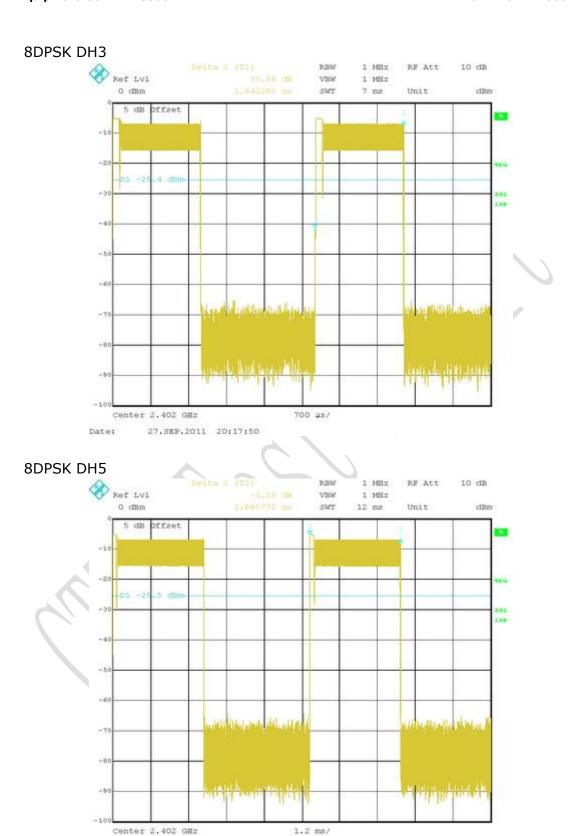


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27.SEP.2011 20:16:46

Date: