

Test Report

Industry Canada RSS-210 / FCC Part15.225

Product Name : Sonim XPand NFC
Model No. : Sonim XPand NFC (B01V008AA)
FCC ID : WYPP25B005AN
IC : 8090A-P25B005AN

Applicant : Sonim Technologies Inc
Address : 1875 S. Grant Street, Suite 620, San Mateo,
CA 94402 USA

Date of Receipt : 14/11/2011
Test Date : 29/06/2011 ~ 08/07/2011
Issued Date : 16/11/2011
Report No. : 11BS039R-RF-US-P09V01
Report Version : V1.0

This report was based on Quietek report No: 116S087R

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, NVLAP or any agency of the Government.

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Test Report Certification

Issued Date : 16/11/2011

Report No. : 11BS039R-RF-US-P09V01



Product Name : Sonim XPand NFC
 Applicant : Sonim Technologies Inc
 Address : 1875 S. Grant Street, Suite 620, San Mateo, CA 94402 USA
 Manufacturer : Baracoda Hong Kong Ltd
 Address : Suite 1601, 16/F, The Centre Mark, 287-299 Queen's Road
 Central, Hong Kong
 Factory : Shenzhen G-Link Co Ltd
 Factory Address : 4/F, E Building, Huachuangda Technology Park, Hangcheng
 Road, Gushu, Xixiang
 Model No. : Sonim XPand NFC (B01V008AA)
 FCC ID : WYPP25B005AN
 IC : 8090A-P25B005AN
 Brand Name : Sonim
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
 ANSI C63.4: 2009; ANSI C63.10: 2009
 Industry Canada RSS-210 Issue 8
 Industry Canada RSS-GEN Issue 3
 Test Result : Complied
 Performed Location : Suzhou EMC Laboratory
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 FCC Registration Number: 800392; IC Lab Code: 4075B

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Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	: BSMI, NCC, TAF
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
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1. General Information**1.1. EUT Description**

Product Name	Sonim XPand NFC
Model No.	Sonim XPand NFC (B01V008AA)
Working Frequency	13.56MHz
Antenna Type	Loop Antenna (PCB)

1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in Mode 1: Transmit, which was shown in this test report and defined as:

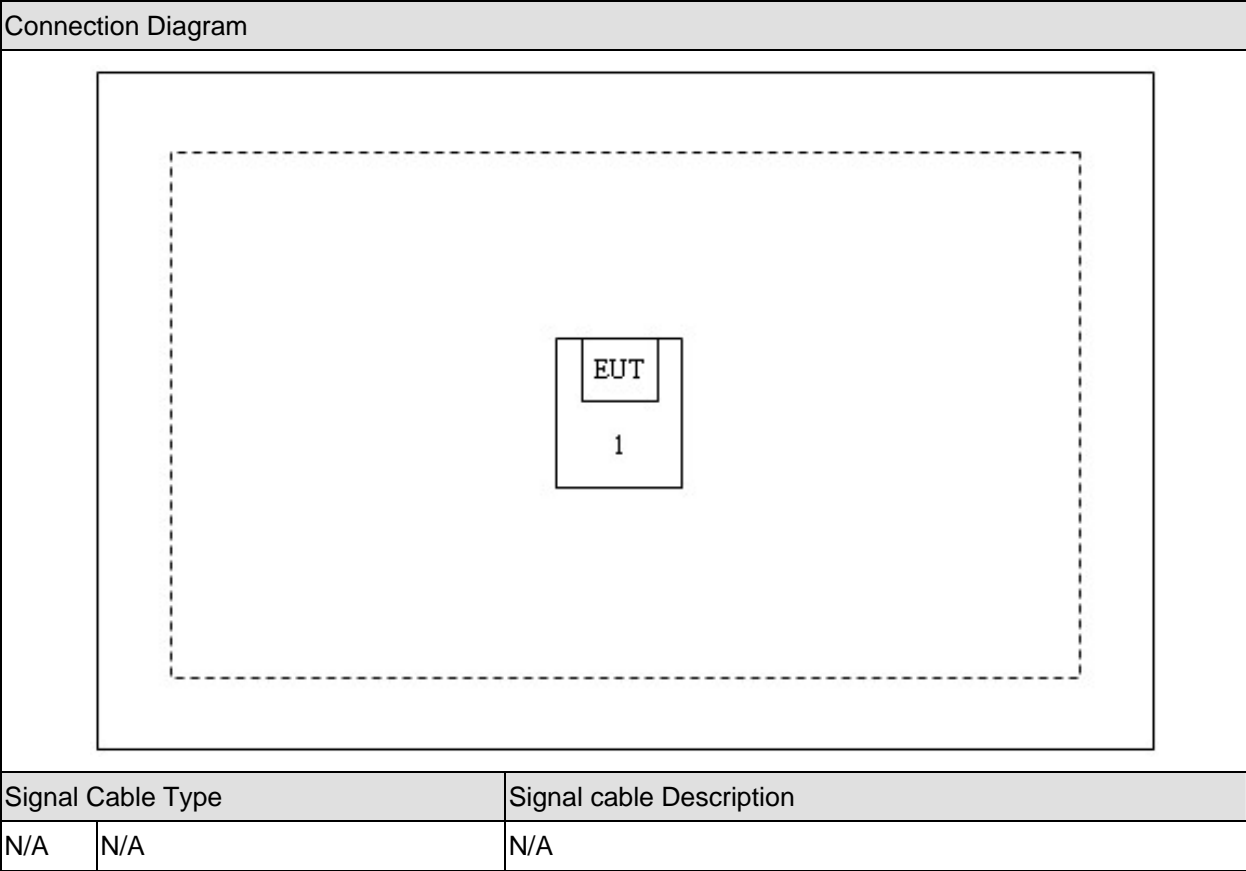
Test Mode
Mode 1: NFC Transmit

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1	GSM/UMTS mobile phone Sonim	XP1301	N/A	N/A

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Make the EUT work on "NFC" mode.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.207	Yes	No
In-Band Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.225(a),(b),(c)	Yes	No
Out-Band Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.225(d)	Yes	No
20dB Bandwidth	FCC CFR Title 47 Part 2 Subpart J: 2008 2.1049	Yes	No
Frequency Stability Tolerance	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.225(e)	Yes	No

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	RSS-GEN Issue 3 December 2010 Section 7.2.2	Yes	No
In-Band Emission	RSS-210 Issue 8 December 2010 Section A2.6(a),(b),(c)	Yes	No
Out-Band Emission	RSS-210 Issue 8 December 2010 Section A2.6(d)	Yes	No
20dB Bandwidth	RSS-210 Issue 8 December 2010 Section A8.5	Yes	No
Frequency Stability Tolerance	RSS-210 Issue 8 December 2010 Section A2.6	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

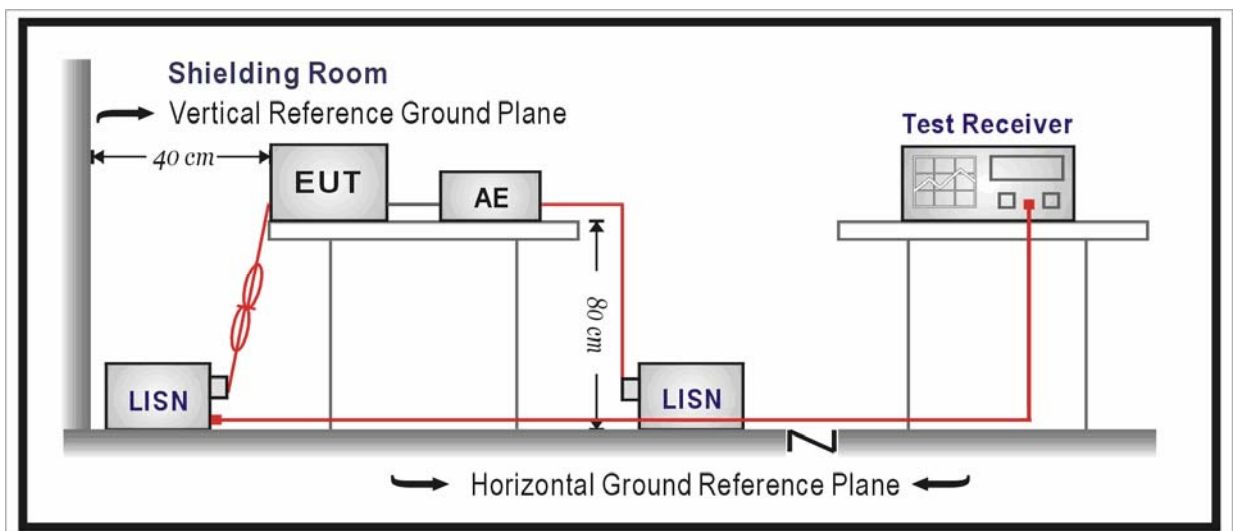
3.1. Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100726	2012.04.23
Two-Line V-Network	R&S	ENV216	100043	2012.04.29
Two-Line V-Network	R&S	ENV216	100044	2011.09.07
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2012.05.05
50ohm Termination	SHX	TF2	07081401	2011.09.27
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2012.01.14

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

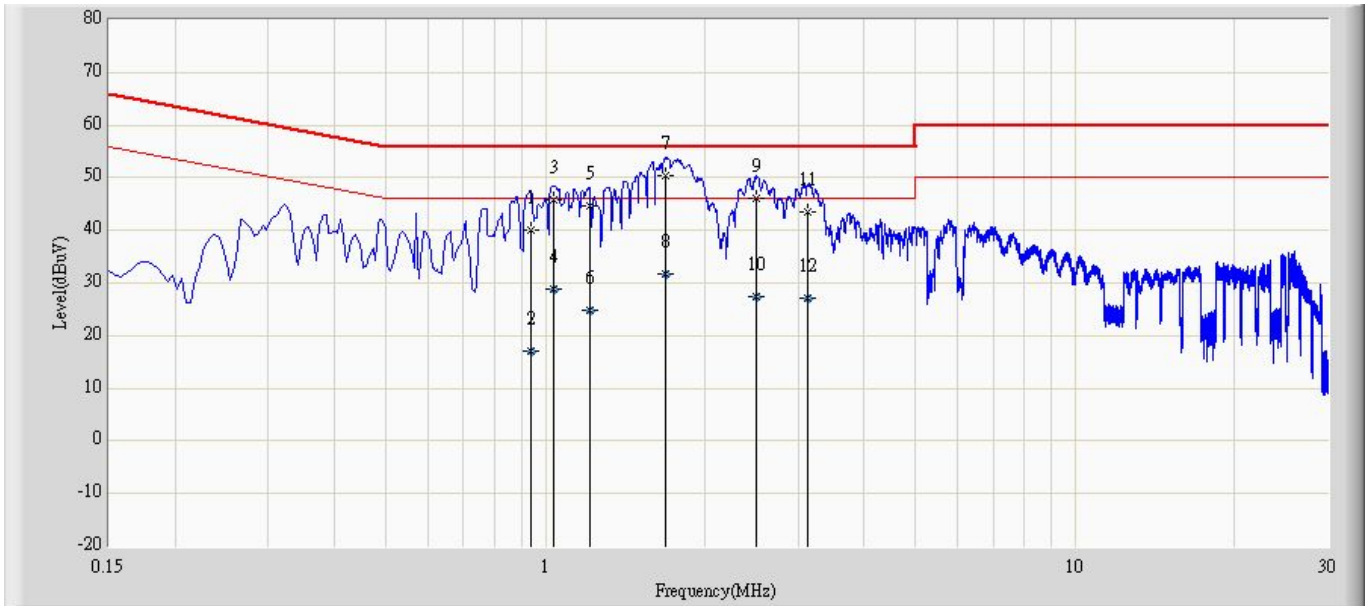
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

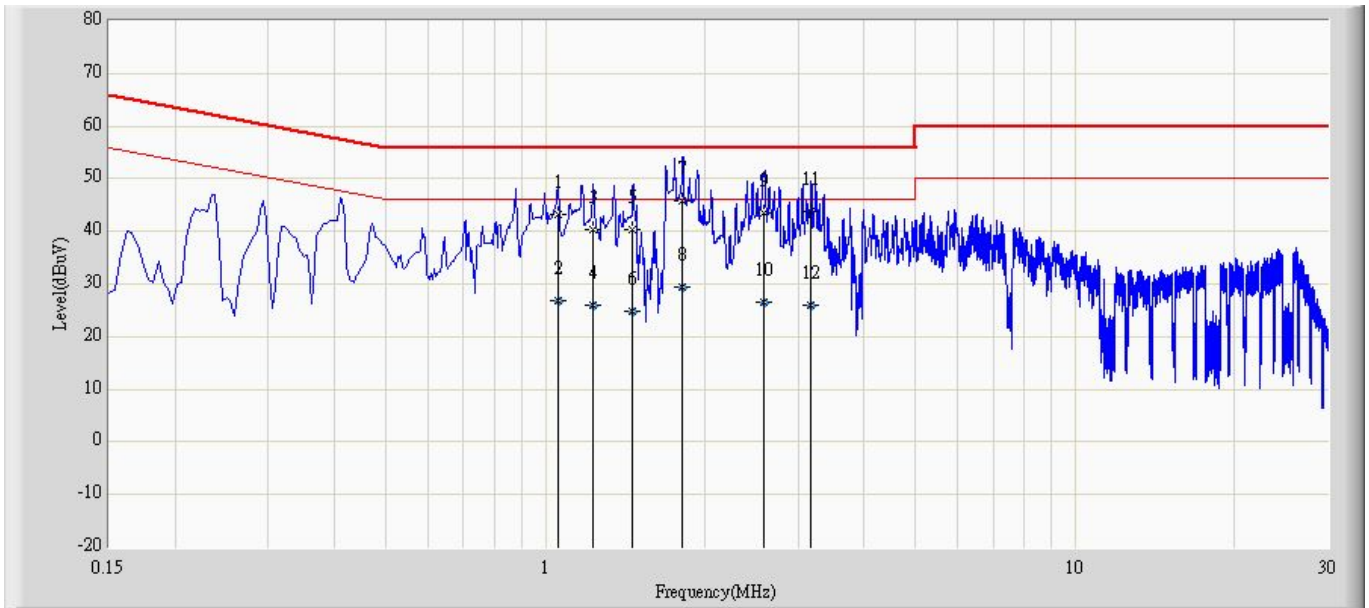
3.6. Test Result

Profile: 116S087R	Page No.: 2
Engineer: Jame	
Site: TR1	Time: 2011/07/02 - 19:32
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Line
EUT: Sonim XPand NFC	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.938	40.007	30.323	-15.993	56.000	9.684	QP
2		0.938	17.143	7.459	-28.857	46.000	9.684	AV
3		1.034	45.674	35.993	-10.326	56.000	9.681	QP
4		1.034	28.765	19.084	-17.235	46.000	9.681	AV
5		1.210	44.747	35.061	-11.253	56.000	9.686	QP
6		1.210	24.946	15.259	-21.054	46.000	9.686	AV
7	*	1.686	50.280	40.570	-5.720	56.000	9.711	QP
8		1.686	31.659	21.949	-14.341	46.000	9.711	AV
9		2.506	46.023	36.278	-9.977	56.000	9.745	QP
10		2.506	27.406	17.660	-18.594	46.000	9.745	AV
11		3.134	43.400	33.639	-12.600	56.000	9.761	QP
12		3.134	27.098	17.337	-18.902	46.000	9.761	AV

Profile: 116S087R	Page No.: 1
Engineer: Jame	
Site: TR1	Time: 2011/07/02 - 19:26
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Neutral
EUT: Sonim XPand NFC	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		1.054	43.078	33.396	-12.922	56.000	9.682	QP
2		1.054	26.841	17.159	-19.159	46.000	9.682	AV
3		1.230	40.293	30.606	-15.707	56.000	9.687	QP
4		1.230	26.037	16.350	-19.963	46.000	9.687	AV
5		1.462	40.305	30.580	-15.695	56.000	9.725	QP
6		1.462	24.853	15.127	-21.147	46.000	9.725	AV
7	*	1.814	45.742	36.027	-10.258	56.000	9.714	QP
8		1.814	29.487	19.772	-16.513	46.000	9.714	AV
9		2.582	43.615	33.869	-12.385	56.000	9.746	QP
10		2.582	26.619	16.873	-19.381	46.000	9.746	AV
11		3.178	43.874	34.112	-12.126	56.000	9.762	QP
12		3.178	26.054	16.292	-19.946	46.000	9.762	AV

4. In-band Emission

4.1. Test Equipment

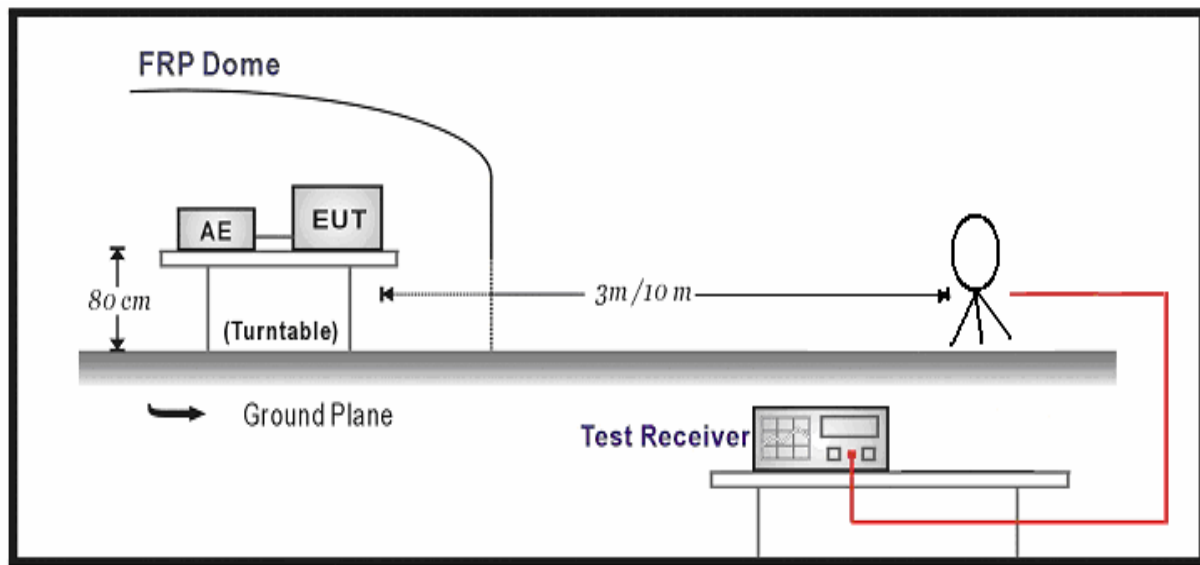
In-band Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2012.04.23
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2011.10.18
Loop Antenna	R&S	HFH2-Z2	833799/003	2011.11.22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012.06.11
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2012.03.08
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2012.01.14

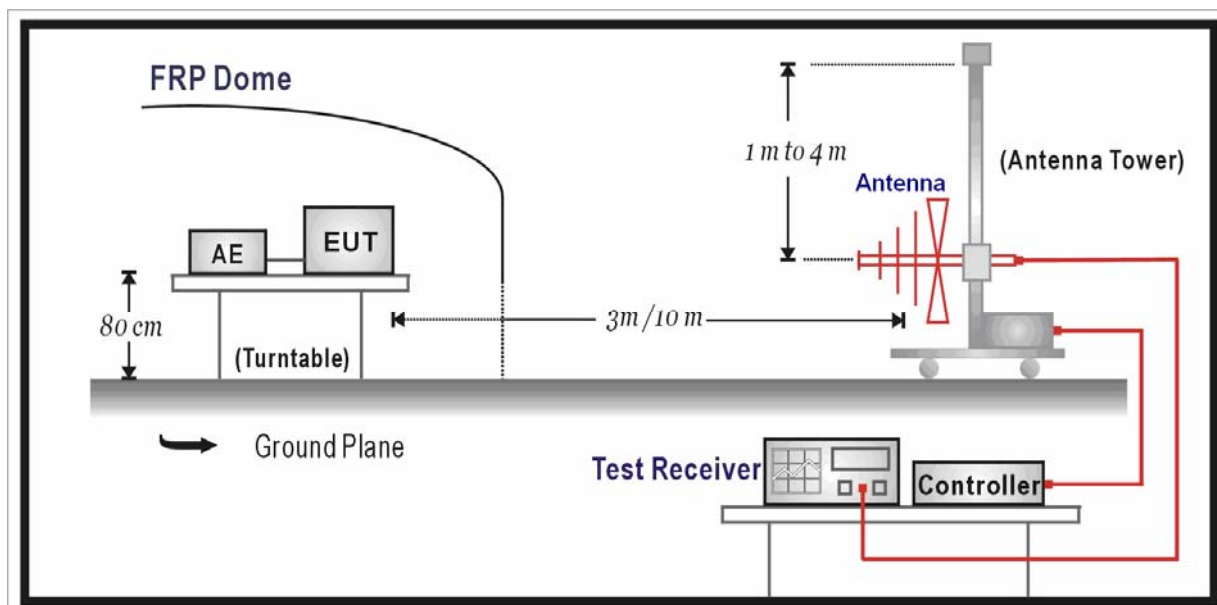
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

Below 30MHz Test Setup:



Below 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart C Paragraph 15.225		
Frequency (MHz)	Distance (m)	Level (uV/m)
13.553 ~13.567	30	15,848
13.410 ~13.553 13.567 ~13.710	30	334.5
13.110 ~13.410 13.710 ~14.010	30	106

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

The EUT should be operate in transmission mode.

4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB
below 1G is defined as ± 3.8 dB

4.6. Test Result

All of the test result shown indicates the worst case.

Frequency: 13.56MHz

Measurement Distance: 3 Meters

Face On					
Frequency	Reading Level(dBuV/m)	Factor	Measure Level(dBuV/m)	Limit(3m) [dBuV/m]	Margin [dB]
13.130	9.82	20.11	29.93	80.51	-50.58
13.462	6.94	20.15	27.09	90.47	-63.38
13.56012	29.34	20.16	49.50	123.99	-74.49
13.605	21.86	20.16	42.02	90.47	-48.45
13.930	7.80	20.12	27.92	80.51	-52.59
Face Off					
Frequency	Reading Level(dBuV/m)	Factor	Measure Level(dBuV/m)	Limit(3m) [dBuV/m]	Margin [dB]
13.195	8.50	20.12	28.62	80.51	-51.89
13.495	7.21	20.15	27.36	90.47	-63.11
13.56011	28.71	20.16	48.87	123.99	-75.12
13.615	25.42	20.17	45.59	90.47	-44.88
13.792	7.88	20.19	28.07	80.51	-52.44

Notes:

1. All measurements were performed using a loop antenna. The antenna was positioned in two orthogonal (face on and face off) and the position with the highest emission level was recorded.
2. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

$$\text{Extrapolation Factor} = 40 * \text{LOG}(30/3) = 40 \text{ dB}$$
3. All measurements were recorded using a EMI test receiver employing a peak detector.

5. Out-band Spurious

5.1. Test Equipment

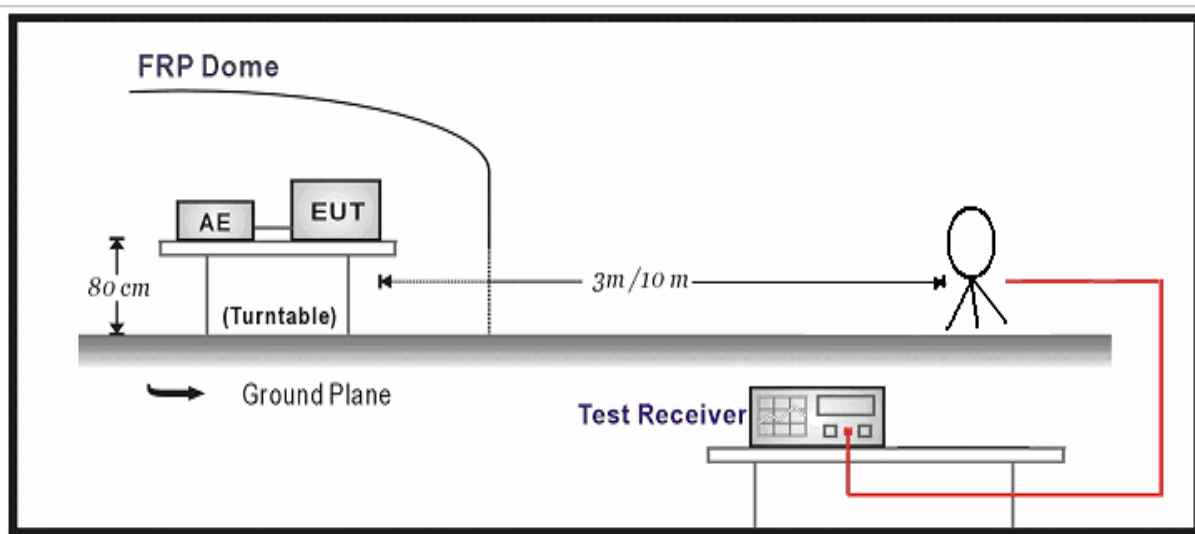
Out-band Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2012.04.23
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2011.10.18
Loop Antenna	R&S	HFH2-Z2	833799/003	2011.11.22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012.06.11
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2012.03.08
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2012.01.14

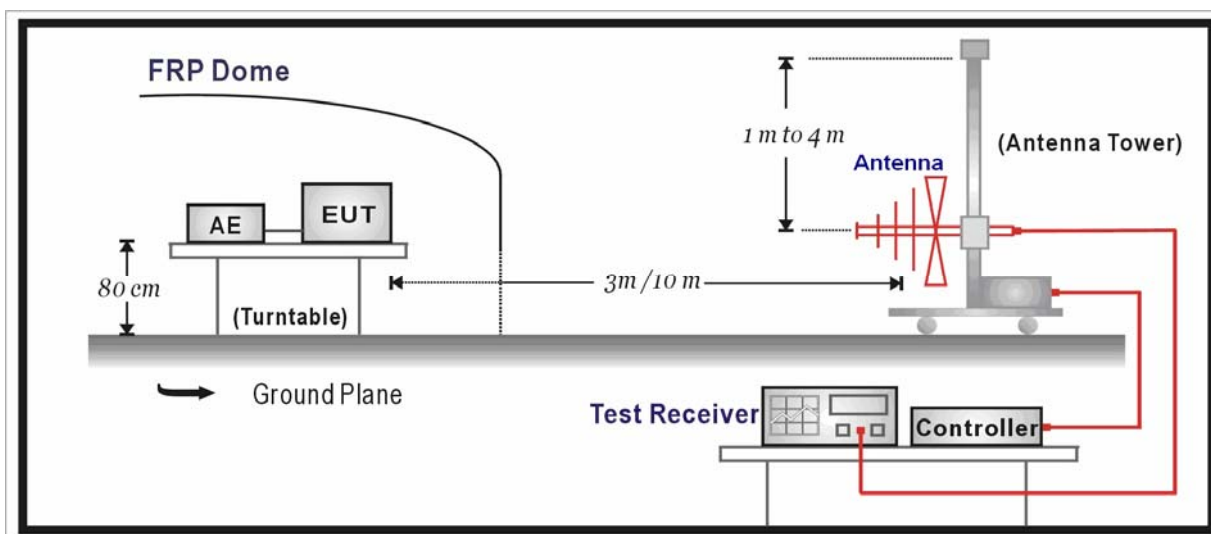
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup

Below 30MHz Test Setup:



Below 1GHz Test Setup:



5.3. Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (uV/m)
0.009 – 0.490	300	2400/F (kHz)
0.490 – 1.705	30	2400/F (kHz)
1.705 – 30	30	30
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
Above 960	3	500

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

5.4. Test Procedure

The EUT was tested from 9kHz up to the 1GHz excluding the band 13.110-14.010 MHz. All measurements were recorded with a spectrum analyzer employing an average detector for emissions below 30MHz. Above 30MHz a Quasi-peak detector was used. All out-of-band emissions must not exceed the limits shown as stated per Section 15.209. A loop antenna was used for searching for emissions below 30MHz.

5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

All of the test result shown indicates the worst case.

Measure Level = Reading Level +Factor.

Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Face On						
27.12	4.93	20.09	25.02	69.54	-44.52	QP
Face Off						
27.12	5.77	20.09	25.86	69.54	-43.68	QP

Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	40.30	4.57	12.55	17.12	40	-22.88	QP
H	54.25	4.50	7.16	11.66	40	-28.34	QP
H	56.79	5.01	6.60	11.61	40	-28.39	QP
H	68.70	4.75	5.85	10.60	40	-29.40	QP
H	91.11	3.56	9.89	13.45	43.5	-30.05	QP
V	40.30	12.28	12.55	24.83	40	-15.17	QP
V	54.25	11.11	7.16	18.27	40	-21.73	QP
V	56.79	10.05	6.60	16.65	40	-23.35	QP
V	68.07	9.63	5.83	15.46	40	-24.54	QP
V	91.11	9.65	9.89	19.54	43.5	-23.96	QP
V	94.74	9.38	10.63	20.01	43.5	-23.49	QP

6. 20dB Bandwidth

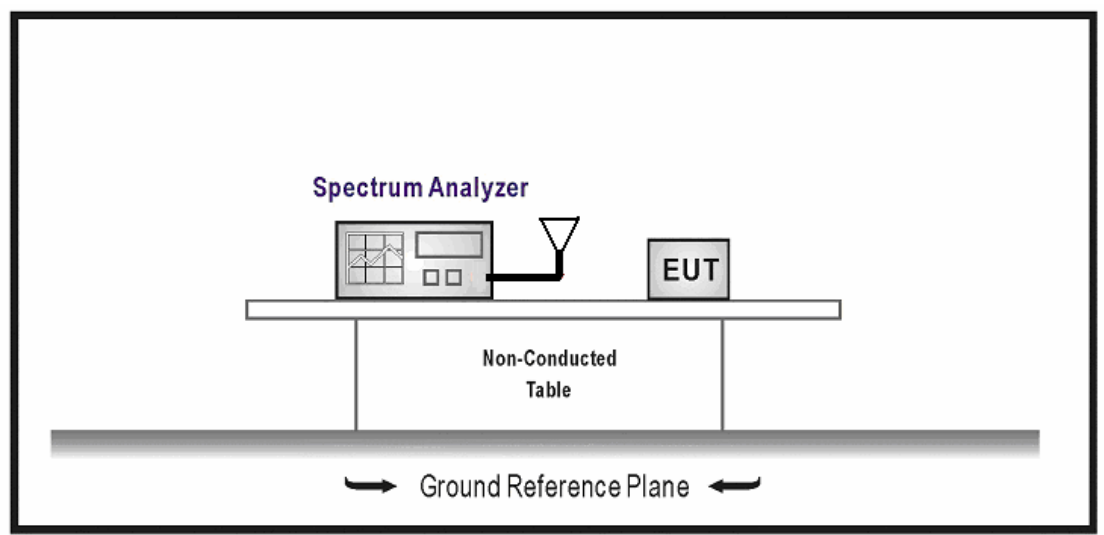
6.1. Test Equipment

20dB Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2012.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2012.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup



6.3. Limit

N/A

6.4. Test Procedure

The 20dB bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

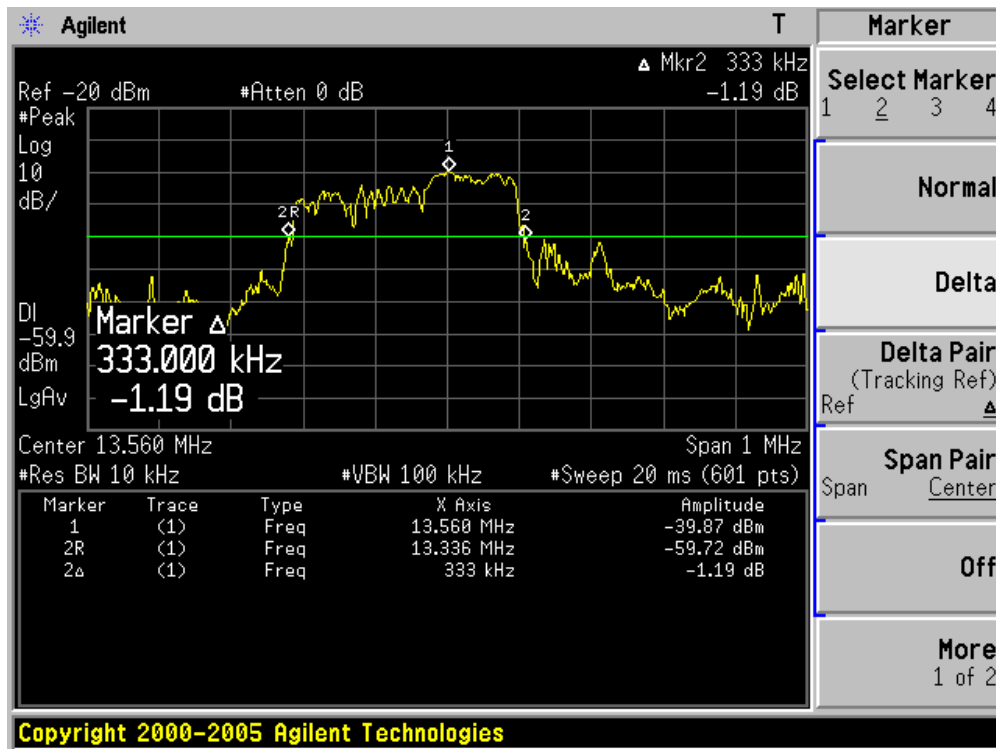
6.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

Product	:	Sonim XPand NFC
Test Item	:	20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit

Frequency (MHz)	Occupied Bandwidth (kHz)
13.56	333



7. Frequency Tolerance

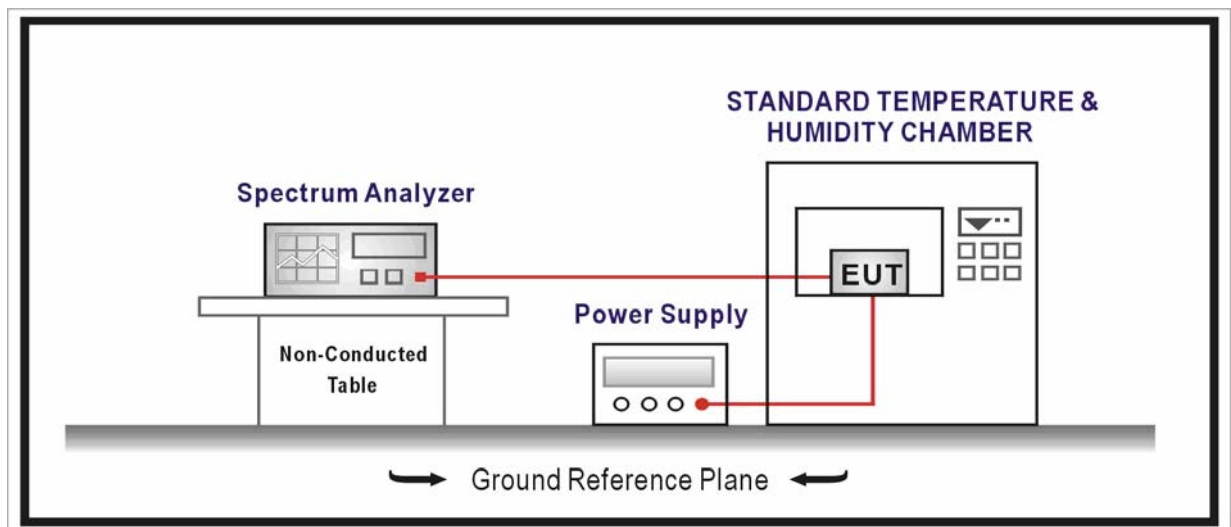
7.1. Test Equipment

Frequency Tolerance / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2012.04.30
AC Power Supply	IDRC	CF-500TP	979422	2011.09.27
DC Power Supply	IDRC	CD-035-020PR	977272	2011.09.27
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2012.01.19
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2012.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

7.4. Test Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

7.6. Test Result

Product	:	Sonim XPand NFC
Test Item	:	Transmitter carrier output levels
Test Site	:	AC-1
Test Mode	:	Mode 1: Transmit

Operating Frequency: 13.56MHz					
Reference Voltage: 3.7Vdc					
Deviation Limit: +/- 0.01% = 1356Hz					
Voltage (%)	Power Battery	TEMP (°C)	FREQ. (Hz)	FREQ.Dev. (Hz)	Deviation (%)
100%	3.70	+20(Ref)	13,560,106	106	0.000782
100%		-20	13,560,113	113	0.000833
100%		-10	13,560,122	122	0.000900
100%		0	13,559,940	-60	-0.000442
100%		+10	13,560,096	96	0.000708
100%		+20	13,559,926	-74	-0.000546
100%		+30	13,560,085	85	0.000627
100%		+40	13,560,119	119	0.000878
100%		+50	13,559,913	-87	-0.000642

8. Appendix 1 – Test Setup Photograph

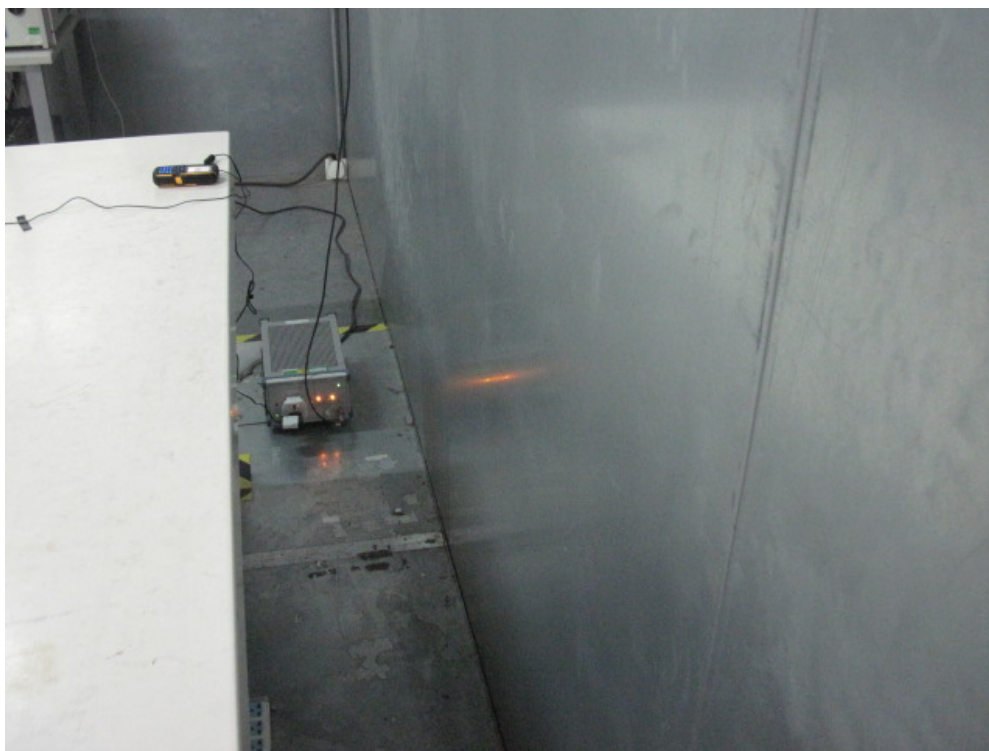
Test Mode: Mode 1: Transmit

Description: Front View of Conducted Emission Test Setup



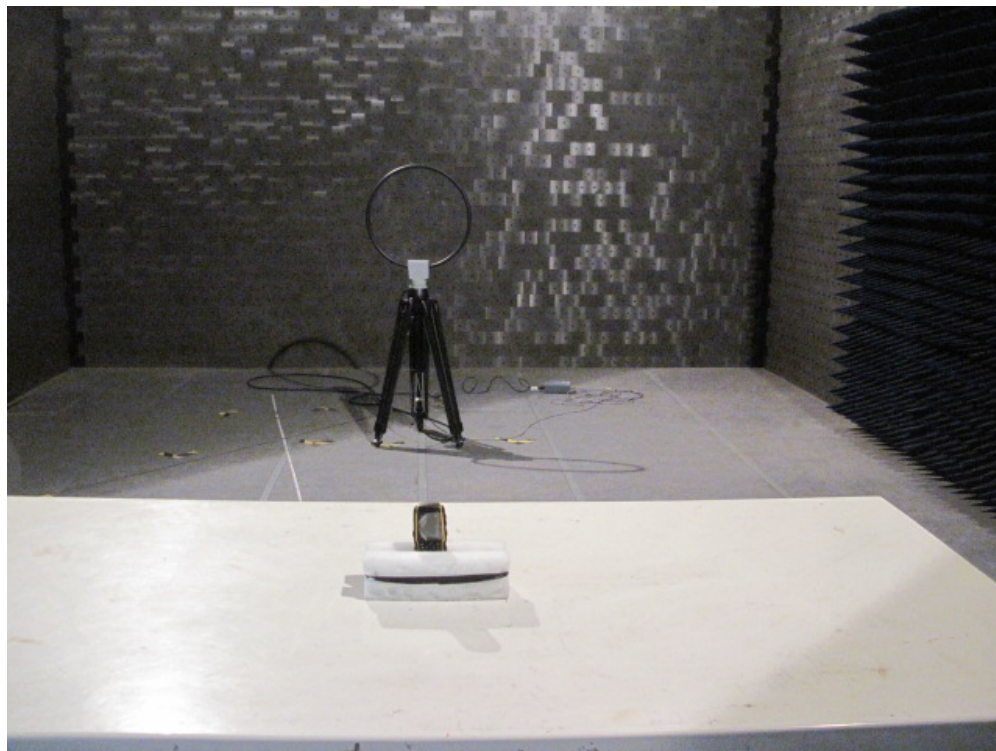
Test Mode: Mode 1: Transmit

Description: Back View of Conducted Emission Test Setup



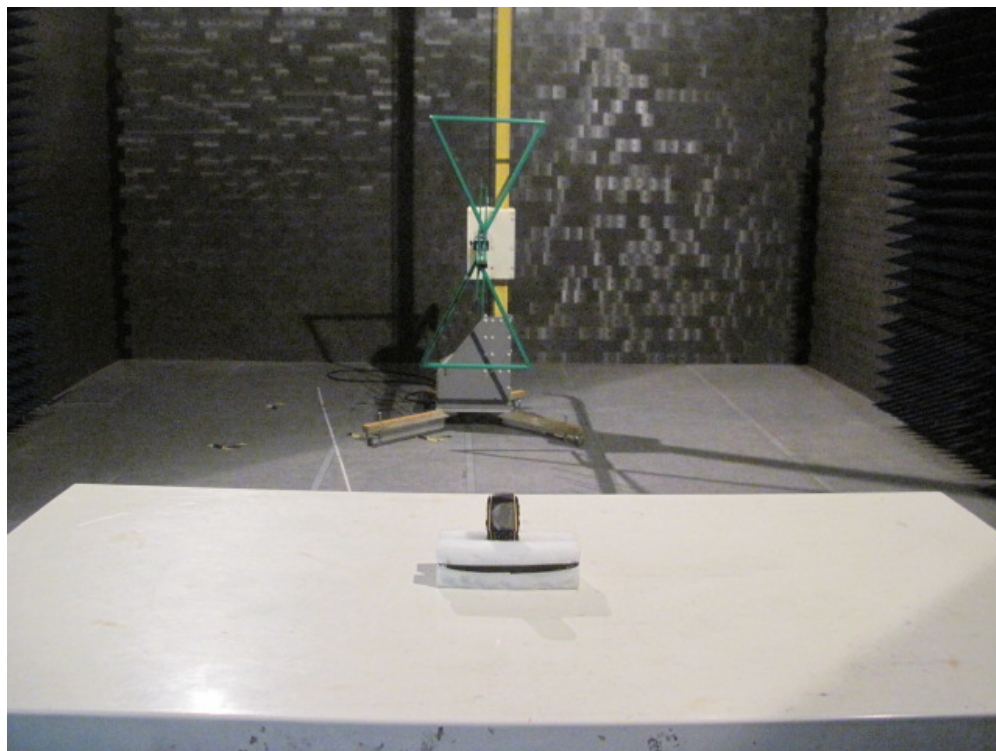
Test Mode : Mode 1: Transmit

Description : Radiated Emission Test Setup for Below 30MHz



Test Mode : Mode 1: Transmit

Description : Radiated Emission Test Setup for Below 1GHz

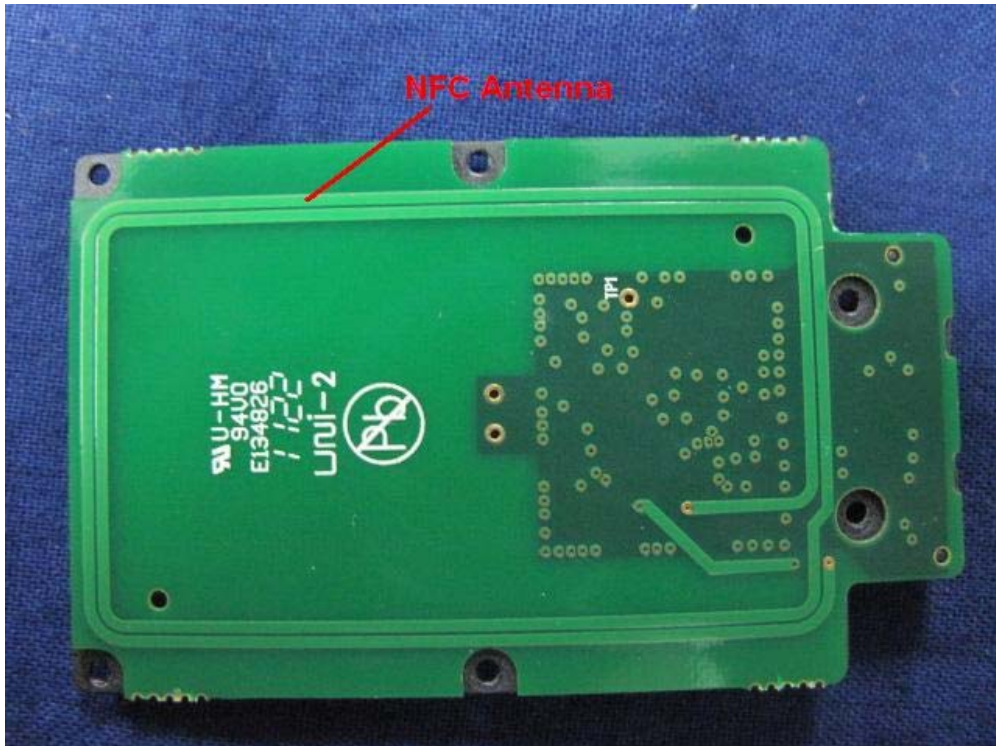


9. Appendix 2 – EUT Photograph

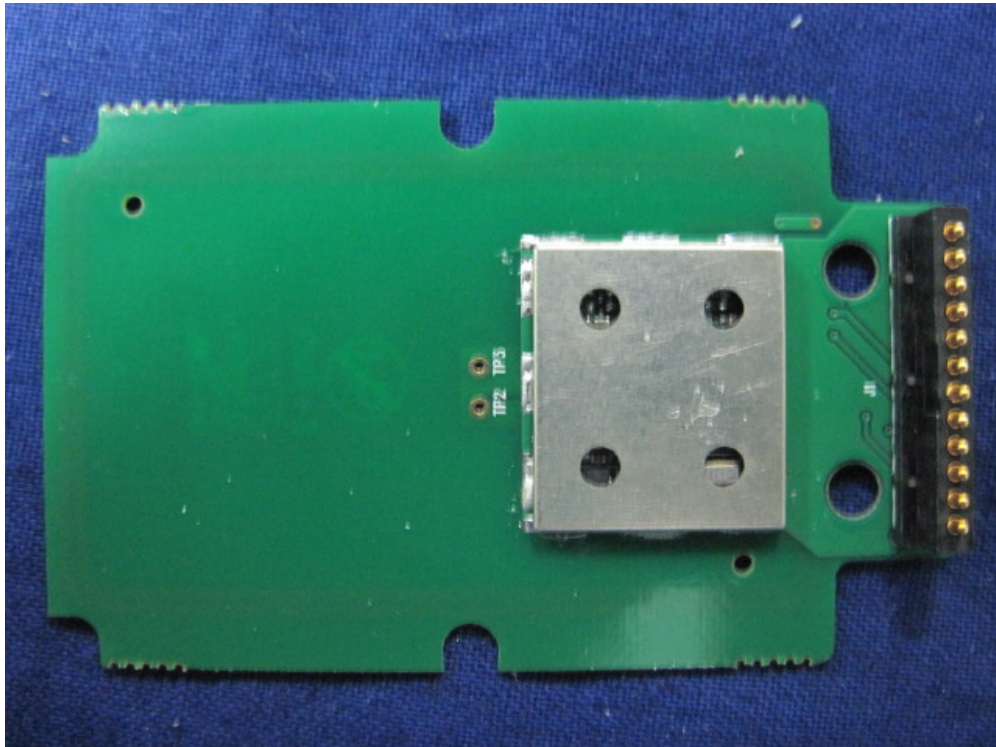
(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo

