

## FCC 15.249 Test Report

Final Model Name: Suunto Foot Pod™

Tested Model Name: Max7NV

FCC ID: o6rm7nv

IC: 3797A-M7NV

Prepared for Dynastream Innovations, Inc.

According to FCC Section 15.249

Test Report #: DYN-0406-4151-FCC

Job Number #: DYN-0407-1001-TCB

Prepared by: Arcelia Maldonado

QC Manager: Tony Wang

Test Report Released by:



Tony Wang

July 23, 2004

Date

## List of Attached Files

<i>Exhibit Type</i>	<i>File Description</i>	<i>File Name</i>
<i>Test Report</i>	<i>Test Report</i>	<i>report.pdf</i>
<i>Operation Description</i>	<i>Technical Description</i>	<i>description.pdf</i>
<i>Test Report</i>	<i>Fundamental Field Strength Plot</i>	<i>fds.pdf</i>
<i>Test Report</i>	<i>Band Edge Plots</i>	<i>be.pdf</i>
<i>Test Report</i>	<i>Out of Band Emissions Plots</i>	<i>obe.pdf</i>
<i>Test Report</i>	<i>6dB Bandwidth Plot</i>	<i>6dB.pdf</i>
<i>Test Report</i>	<i>Duty Cycle Measurement</i>	<i>dcm.pdf</i>
<i>External Photos</i>	<i>External Photos</i>	<i>external-photos.pdf</i>
<i>Internal Photos</i>	<i>Internal Photos</i>	<i>internal-photos.pdf</i>
<i>Set-up Photos</i>	<i>Test Set-up Photos</i>	<i>setup-photos.pdf</i>
<i>Block Diagram</i>	<i>Block Diagram</i>	<i>block.pdf</i>
<i>Schematics</i>	<i>Circuit Diagram</i>	<i>circuit.pdf</i>
<i>ID Label/Location</i>	<i>Label Artwork and Location</i>	<i>label.pdf</i>
<i>User Manual</i>	<i>User Manual</i>	<i>manual.pdf</i>

## Max7NV Model Name

**Attn.:** Arcelia Maldonado  
EMC Compliance Management Group  
670 National Avenue,  
Mountain View, CA 94043

Date: July 23, 2004

To Whom It May Concern:

Concerning the product model name. The Max7NV will be labeled and sold as the "Suunto Foot Pod™".

Please refer to the product labeling for additional information.

Yours Sincerely,

Victor Beda  
EET



## **Test Location**

*EMC Compliance Management Group is located at 670 National Ave., Mountain View, CA 94043, USA.*

## **Accreditation Bodies**

*EMC Compliance Management Group is a fully accredited Test Laboratory for ITE, ISM and Telecommunications Products.*



*In compliance with the site registration requirements of Section 2.948 of the FCC Rules to perform EMI measurements for the general public.*



*Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code # 200068-0.*

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## **ADMINISTRATIVE DATA**

*Test Sample* : *Speed and Distance Monitoring System*

*Model Name* : *Suunto Foot Pod™*

*Tested Model Name* : *Max7NV*

*Serial Number* : *Engineering Sample*

*Date Tested* : *June 10<sup>th</sup> - 14<sup>th</sup>, 2004*

*Manufacturer* : *Dynastream Innovations, Inc.*  
*228 River Avenue, Cochrane, Alberta, Canada*

*Telephone* : *(403) 932-9292*

*Fax* : *(403) 932-6521*

## **EUT Description**

*Dynastream Innovations, Inc., tested model name Max7NV (referred to as the EUT in this report) is a Speed and Distance Monitoring System.*

## Test Summary

The Electromagnetic Compatibility requirements on tested model name Max7NV for this test are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

The Max7NV has been found to conform to the following parts of the 47 CFR FCC as detailed below:

Part 15	Requirement	Result Pass/Fail	Comments
15.15(b)	General technical requirements	Pass	The product contains no user accessible controls that increase transmission power above allowable levels.
15.19	Labeling requirement	Pass	The label is shown in the label exhibit.
15.21	Information to user	Pass	Information to the user is shown in the instruction manual exhibit.
15.27	Special accessories	Pass	No special accessories are required for compliance.
15.203	Antenna requirement	Pass	The antenna is soldered to the transmitter board, which is not used accessible, and there is no external antenna connection
15.209(a)	Radiated Emissions limits, general requirements	Pass	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209.
15.207(a)	AC conducted Emissions	N/A	The unit with AAA battery pack no conducted emission test required.
15.249(a)	Field Strength of Fundamental & Harmonics	Pass	The unit complies with the field strength limits of 15.249.
15.249 (d)	Band Edge & out of band measurements	Pass	The unit complies with the band edge emissions limits of 15.249.
15.249 (d)	6 dB Bandwidth	Pass	The unit complies with the 6 dB bandwidth limits
15.35 (b)(c)	Duty cycle	Pass	Duty cycle calculation

This report is an application for Certification of a Transmitter operation pursuant to FCC part 15.249, code of federal regulations 47. The product covered by this report is the Dynastream tested model name: Max7NV. This report is designed to demonstrate the compliance of this



*device with the requirements outlined in 47 CFR Part 15 using the methods in CFR 47 Part 2.*

### ***Test Mode Justification***

*The EUT exercise program used during radiated testing was designed to exercise the various system components in a manner similar to a typical use.*

*For emission testing, the unit was setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.*

### ***Equipment Modification***

*Any modifications installed previous to testing by Dynastream Innovations, Inc. will be incorporated in each production model sold or leased in United States.*

*There were no modifications installed by EMC Compliance Management Group.*

## ***Test System Details***

<b><i>EUT</i></b>	
<b><i>Model Name:</i></b>	<b><i>Suunto Foot Pod™</i></b>
<b><i>Tested Model Name:</i></b>	<b><i>Max7NV</i></b>
<b><i>Serial Number:</i></b>	<b><i>Engineering Sample</i></b>
<b><i>Description:</i></b>	<b><i>Speed and Distance Monitoring System</i></b>
<b><i>Manufacturer:</i></b>	<b><i>Dynastream Innovations, Inc.</i></b>
<b><i>Support Equipment</i></b>	
<b><i>None</i></b>	
<b><i>Cable Description</i></b>	
<b><i>None</i></b>	

## Test Methodology

Radiated emissions' testing was performed according to the procedures specified in ANSI C63.4-2001.

**Frequency Range investigated:** 30 MHz to 25 GHz

### Measurement setup:

Frequency	RBW	VBW	Sweep	Detector	Distance	Antenna polarization	Antenna height
30 - 1000 MHz	120 KHz	≥RBW	Auto	Peak	3 m	Vertical & Horizontal	1 m - 4 m
Above 1 GHz	1 MHz	≥RBW	Auto	Peak	3m / 1m	Vertical & Horizontal	1 m - 4 m

### Radiated emission limits:

Frequency MHz	3m Field Strength (uV/m)	3m Field Strength QP (dBuV/m)
30 - 88	100	40.00
88 - 216	150	43.52
216 - 960	200	46.02
960 Above	500	53.98

Frequency (MHz)	Fundamental mV/m (Ave)	Fundamental dBuV/m (Ave)	Harmonics uV/m (Ave)	Harmonics dBuV/m (Ave)
2400 -2483.5	50	93.98	500	53.98

**EUT power Source:** Fresh AAA battery pack

**Emission Maximization:** Antenna (1m to 4m) height and Horizontal/Vertical polarization 360-degree turntable rotated and EUT rotated three orthogonal axes.

## 1. FCC 15.249 (a) Fundamental Frequency Measurement

### Test Procedure:

a. The field strength of emissions from Intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
2400 - 2483.5 MHz	50	500

- b. The EUT was placed on a 1m x 1.5m wide and 0.8m high nonconductive table that is placed on a flush mounted metal turntable. The turntable can rotate 360 degree to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.
- c. The EUT equipment was performed using a new battery.
- d. Field strength limits were specified at a distance of 3 meters.
- e. The EUT was situated in three orthogonal planes.

### Radiated Emissions Limit (Section 15.249 (a)):

Frequency (MHz)	Fundamental mV/m (Ave)	Fundamental dBuV/m (Ave)	Harmonics uV/m (Ave)	Harmonics dBuV/m (Ave)
2400 -2483.5	50	93.98	500	53.98

### Fundamental Frequency Test Data:

Frequency (MHz)	Raw reading (dBuV)	Antenna Factor (dB/m)	Cable loss (dB)	Preamp Gain (dB)	Duty cycle	Corrected Reading (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Plot #
2465	62.55	30	2.0	0	20	74.55	93.98	-19.43	1

**Note:** If Peak measurements meet average limits, then average measurements are not required.

Corrected reading=Raw reading + AF + Cable loss - Duty cycle

## 2. FCC Part 15.249 (b) and (d) Harmonic Frequency Measurements

### Test Procedures:

- The EUT was tested for radiated emissions in the restricted bands of operation. The EUT was replaced on a non-conductive table at a height of 0.8 meter above the ground plane of a 3 meter chamber test site. For each frequency investigated, the turntable was rotated 360 degrees. And the antenna was raised and lowered in both horizontal and vertical polarizations, in an attempt to maximize the received emissions.
- The EUT was also placed in the three orthogonal axes.
- The spurious measurements of the harmonic were performed to the 10<sup>th</sup> harmonic of the fundamental.
- A pre-amp and a high pass filter were required for this test, in order to provide the measuring system with sufficient sensitivity.

The spurious measurements of the harmonic were performed to the 10<sup>th</sup> harmonic of the fundamental.

A pre-amp and a high pass filter were required for this test, in order to provide the measuring system with sufficient sensitivity.

### Radiated Emissions Limit (Section 15.249 (a)):

Frequency (MHz)	Fundamental mV/m (Ave)	Fundamental dBuV/m (Ave)	Harmonics uV/m (Ave)	Harmonics dBuV/m (Ave)
2400 -2483.5	50	93.98	500	53.98

### Antenna Orientation: Horizontal

Frequency (MHz)	Raw reading (dBuV)	Antenna Factor (dB/m)	Cable loss (dB)	Preamp Gain (dB)	Duty Cycle (dB)	High pass filter (dB)	Distance Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)
4930	62.55	33	1.42	43.4	20	1	0	34.57	54	-19.43
7395	52.97	36.4	3	43.8	20	1	0	29.57	54	-24.43
9865	43.68	38	2.52	40.85	20	1	0	24.35	54	-29.65
*12325	41.1	39.1	3.43	40.14	20	1	9.54	14.95	54	-39.05
*14790	44.2	41.6	2.94	41.8	20	1	9.54	18.4	54	-35.6
*17255	44.3	41.7	2.9	43	20	1	9.54	17.36	54	-36.64
*19720	48.9	40.2	3.9	38	20	1	9.54	26.46	54	-27.54
*22185	48.3	40.3	4.6	38	20	1	9.54	26.66	54	-27.34
*24650	49.1	40.4	5.1	38	20	1	9.54	28.06	54	-25.94

\* Noise Floor measured at 1 meter distance.

**Antenna Orientation: Vertical**

Frequency (MHz)	Raw reading (dBuV)	Antenna Factor (dB/m)	Cable loss (dB)	Preamp Gain (dB)	Duty Cycle (dB)	High pass filter (dB)	Distance Factor (dB)	Corrected Reading (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4930	63.55	33	1.42	43.4	20	1	0	35.57	54	-18.43
7395	54.1	36.4	3	43.8	20	1	0	30.7	54	-23.3
9865	45.3	38	2.52	40.85	20	1	0	25.97	54	-28.03
*12325	43.8	39.1	3.43	40.14	20	1	9.54	17.65	54	-36.35
*14790	45.1	41.6	2.94	41.8	20	1	9.54	19.3	54	-34.7
*17255	44.6	41.7	2.9	43	20	1	9.54	17.66	54	-36.34
*19720	48.3	40.2	3.9	38	20	1	9.54	25.86	54	-28.14
*22185	48.1	40.3	4.6	38	20	1	9.54	26.46	54	-27.54
*24650	49.3	40.4	5.1	38	20	1	9.54	28.26	54	-25.74

\* Noise Floor measured at 1 meter distance.

*Corrected reading=Raw reading + AF + Cable loss - Preamp gain - Duty cycle + Hi-pass filter*

**Note:** *If Peak measurements meet average limits, then average measurements are not required.*

**Distance Extrapolation Factor calculation:**

*For test distance other than what is specified, but fulfilling the requirements of section 15.31(f)(1) the field strength was calculated by adding additionally an extrapolation factor of 20 dB/decade.*

*The basic equation with a sample calculation is as follows:*

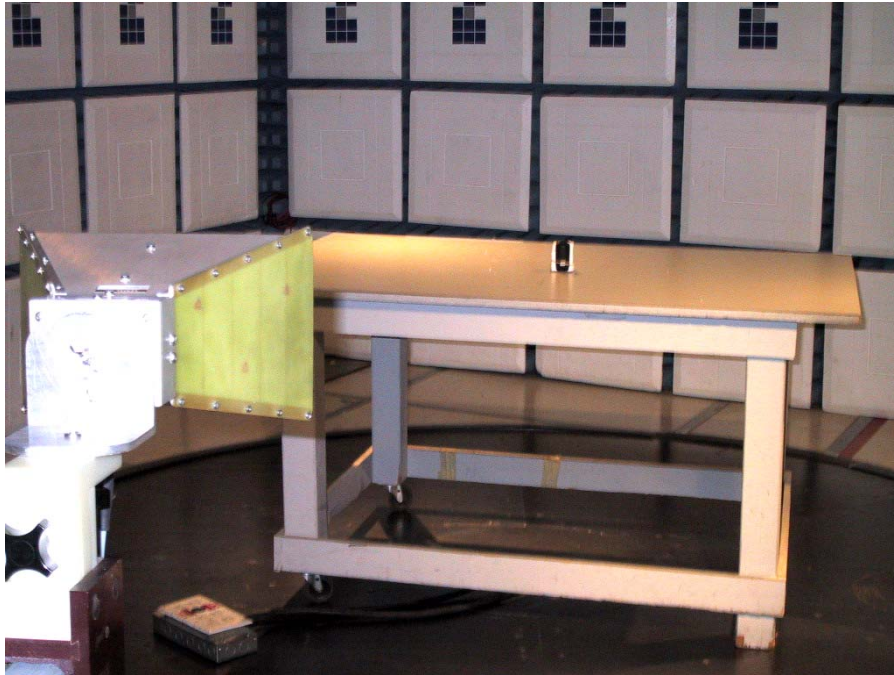
*DF = Distance Extrapolation Factor in dB*

*Where DF=20 log(Dt/Ds) = 20 log(1m/3m)= -9.54 dB*

*Dt=Test Distance (1 m)*

*Ds=Specified Distance (3m)*

*EUT Setup Photos for Tested Model Name: Max7NV*



*Harmonic Frequency Measurements Test Set-Up*



*Close-Up View*

### 3. FCC 15.249 (d) Band Edge and Out of Band Measurements

**Test procedures:**

Set the marker on the emission at the band-edge, or on the highest modulation product outside of the band, if this level is greater than that at the band-edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this section.

**Band Edge Limits of 15.249 (d):**

50 dB below level of Fundamental or general radiated emission limits of 15.209

**Note:** If Peak measurements meet average limits, then average measurements are not required.

**Use the following spectrum analyzer settings:**

Resolution bandwidth	Video Bandwidth	Sweep time	Span	Detector	Trace
≥1% of the Span	≥RBW	Auto	Wide enough to capture the peak level of the emission operating on the channel closest to the band edge	Peak	Max Hold

**Band Edges Test Data:**

Frequency (MHz)	Limits dBc	Delta, dBc	Plot #
2402	50	62	2
2480	50	58	2

**Out of Band Test Data:**

Frequency (MHz)	Plot #
1 MHz - 24 GHz	3, 4, 5, 6, 7, 8, 9



**Test Equipment List:**

<i>Test Equipment</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Serial No.</i>	<i>Last Cal.</i>	<i>Cal. Due</i>
<i>EMI Receiver</i>	<i>R&amp;S</i>	<i>ESMI-RF</i>	<i>849937/006</i>	<i>04/25/04</i>	<i>04/25/05</i>
<i>EMI Receiver</i>	<i>R&amp;S</i>	<i>ESAI-D</i>	<i>825035/005</i>	<i>04/25/04</i>	<i>04/25/05</i>
<i>Spectrum Analyzer</i>	<i>HP</i>	<i>8566B</i>	<i>2410A00224</i>	<i>06/07/04</i>	<i>06/07/05</i>
<i>Quasi Peak Adapter</i>	<i>HP</i>	<i>85650A</i>	<i>3145A01658</i>	<i>06/07/04</i>	<i>06/07/05</i>
<i>Bi-log Antenna</i>	<i>CHASE</i>	<i>CBL6112A</i>	<i>2257</i>	<i>07/14/03</i>	<i>07/14/04</i>
<i>Horn Antenna</i>	<i>EMCO</i>	<i>3115</i>	<i>001</i>	<i>06/04/04</i>	<i>06/04/05</i>
<i>Horn Antenna</i>	<i>EMCO</i>	<i>3160-09</i>	<i>20372</i>	<i>06/04/04</i>	<i>06/04/05</i>
<i>Pre-Amplifier</i>	<i>MITEQ</i>	<i>AFS44-00102650-42-10P-44</i>	<i>969305</i>	<i>03/10/04</i>	<i>03/10/05</i>
<i>Pre-Amplifier</i>	<i>TEC</i>	<i>PA-102</i>	<i>44054</i>	<i>09/03/03</i>	<i>09/03/04</i>
<i>High Pass Filter</i>	<i>REACTEL</i>	<i>7HS-4/18 S11</i>	<i>942</i>	<i>No Cal required</i>	<i>No Cal required</i>
<i>High Pass Filter</i>	<i>Mini-circuits</i>	<i>NHP-900</i>	<i>1-9752</i>	<i>No Cal required</i>	<i>No Cal required</i>
<i>Plotter</i>	<i>HP</i>	<i>7470A</i>	<i>2308A27405</i>	<i>No Cal required</i>	<i>No Cal required</i>

**Test Result:** *EUT Pass, Meets Requirement.*

**Tested by:** *Richard Lee*

**Date:** *June 10<sup>th</sup> - 14<sup>th</sup>, 2004*

#### 4. FCC 15.249 (d) Occupied 6 dB Bandwidth Measurements

##### Test Procedures:

Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

##### Use the following spectrum analyzer settings:

Resolution bandwidth	Video Bandwidth	Sweep time	Span	Detector	Trace
≥1% of the 6 dB bandwidth	≥RBW	Auto	2 to 3 times the 6 dB bandwidth, centered on a peak of the emission	Peak	Max Hold

##### Test Data:

Frequency (MHz)	6 dB bandwidth >500 KHz	Plot #
2465	535 KHz	10

##### Test Equipment List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum Analyzer	HP	8566B	2410A00224	06/07/04	06/07/05
Quasi Peak Adapter	HP	85650A	3145A01658	06/07/04	06/07/05
Horn Antenna	EMCO	3115	001	06/04/04	06/04/05
Plotter	HP	7470A	2308A27405	No Cal required	No Cal required

**Test Result:** EUT Pass, Meets Requirement.

**Tested by:** Richard Lee

**Date:** June 10<sup>th</sup> - 14<sup>th</sup>, 2004

## 5. FCC 15.35 (b) and (c) Duty Cycle Calculation

The EUT was orientated so that its maximum emissions were aligned toward the horn antenna. The horn antenna was connected to the input of the spectrum analyzer. The analyzer center frequency was to EUT RF channel carrier. The sweep function on the analyzer was set to ZERO SPAN. The transmitter ON time was determined from the resultant time-amplitude display.

Duty Cycle Data	Plot # 11, and 12
-----------------	-------------------

The transmitter pulse is 200 microsecond  
The pulse width is 200 msec.

Equipment Under Test

Duty Cycle Calculation:  $20 \log(200\mu\text{s}/200\text{ms})$

Duty cycle correction = -60 dB

Per FCC 15.35 (c): the pulse train not exceed 0.1 sec

Therefore: Duty Cycle =  $20 \log(200\mu\text{s}/100\text{ms}) = -57\text{dB}$

Per FCC 15.35 (b): the maximum allowed is -20 dB

## 6. FCC 15.209 Radiated Emissions Limit

### Test Procedure:

a. EUT was replaced on a non-conductive table at a height of 0.8 meter above the ground plane of a 3 meter chamber test site. For each frequency investigated, the turntable was rotated 360 degrees. And the antenna was raised and lowered in both horizontal and vertical polarizations, in an attempt to maximize the received emissions.

b. Emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at 3 meter separation distance to determine whether these emissions complied with the general radiated emissions requirement.

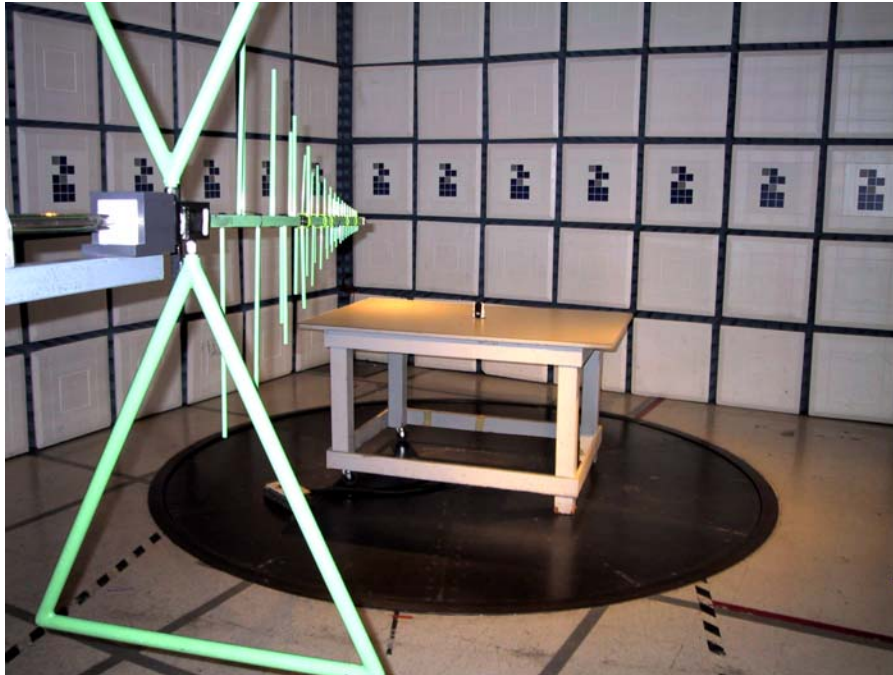
Frequency MHz	3m Field Strength (uV/m)	3m Field Strength QP (dBuV/m)
30 - 88	100	40.00
88 - 216	150	43.52
216 - 960	200	46.02
960 Above	500	53.98

### ANSI C63.4: 2001, CISPR 16-1:1999 Frequency From 30MHz to 1000MHz

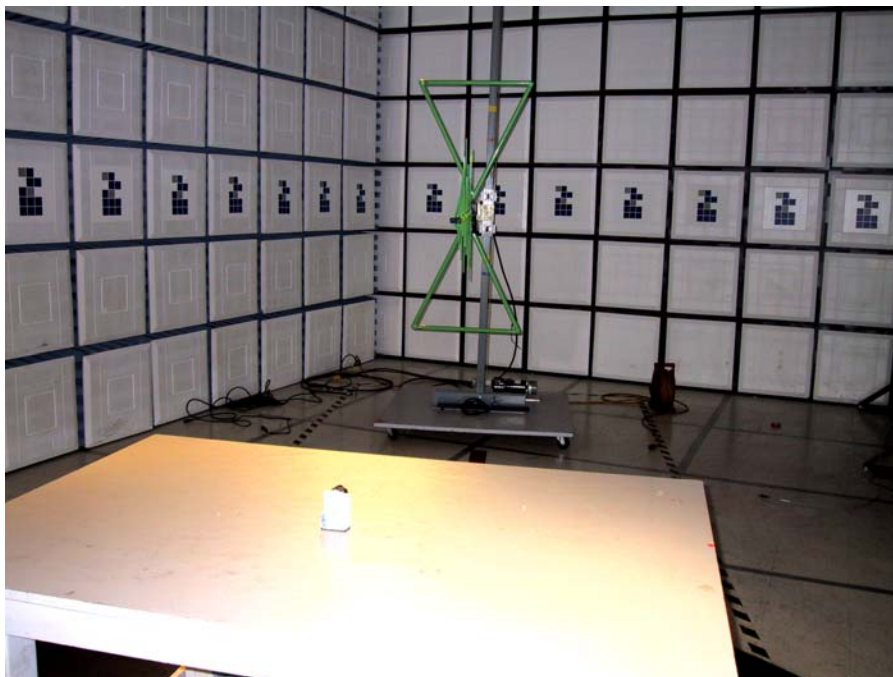
Frequency (MHz)	Ant. Pol	Raw reading (dBuV)	AF (dB/m)	Cable loss (dB)	Preamp Gain (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Delta, (dB)
32.16	H	30.0	-4.4	0.5	0	26.2	40.0	-13.8
604.46	V	32.9	-3.9	2.3	0	31.4	46.0	-14.6
33.23	V	29.6	-5.0	0.5	0	25.2	40.0	-14.8
159.33	H	34.5	-12	1.2	0	23.8	43.5	-19.7
97.90	H	35.1	-12.3	0.9	0	23.7	43.5	-19.8
116.22	H	32.8	-10.3	1.0	0	23.5	43.5	-20.0
47.24	V	29.4	-12.5	0.7	0	17.6	40.0	-22.4

**Corrected reading=Raw reading + AF + Cable loss - Preamp gain**

*EUT Setup Photos for Tested Model Name: Max7NV*



*Radiated Emissions Test Set-up*



*Close-Up View*

## 7. FCC 15.207 (a) Conducted Emission Measurement

### **Test Procedures:**

The EUT was placed on a non-conductive table at 0.8 meter above the ground plane of a shielded enclosure, and 40 cm away from the shielded enclosure wall. The AC power cord of the EUT was plugged into a 50 ohm, 50 uH LISN.

RF emissions on the AC power line were measured using the spectrum analyzer connected to the LISN RF port via coaxial cable.

Frequency (MHz)	QP (dBuV)	Average (dBuV)
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5.0	56	46
5.0 - 30	60	50

*\*Decreases with the Logarithm of the Frequency.*

**Test Results:** EUT was Battery operated, No test required.

**Tested by:** Richard Lee

**Date:** June 10<sup>th</sup> - 14<sup>th</sup>, 2004