

## TEST REPORT

Report Number: 3167659ATL-001

November 24, 2008

### Product Designation: Inteli-Touch Transmitter

Standard: 47 CFR Part 15, Subpart C (15.231 - Periodic operation in the band 40.66-  
40.70 MHz and above 70 MHz)  
RSS-210, Issue 7, June 2007

Tested by:  
Intertek Testing Services NA Inc.  
1950 Evergreen Blvd., Suite 100  
Duluth, GA 30096

Client:  
Hunter Fan  
2500 Frisco Avenue  
Memphis, TN 38114  
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Tests performed by:



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## 1.0 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 3.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested complies with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

## 2.0 Test Summary

Section	Test Full Name	Test Date	Result
4.0	System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)		
5.0	Overview of EUT (Low Power Transmitters) (FCC 15C - EUT Overview)	11/20/2008	PASS
6.0	Restrictions (FCC 15C - 15.231(a))	11/20/2008	PASS
7.0	Duty Cycle Determination (FCC 15A - 15.35(c))	11/20/2008	PASS
8.0	Radiated Emissions (FCC 15C - 15.231(b))	11/20/2008	PASS
9.0	Conducted emissions on AC power lines (Conducted Emissions)	11/20/2008	PASS
10.0	Bandwidth Requirements (FCC 15C - 15.231(c))	11/20/2008	PASS
NA	Conducted Emissions for Intentional Radiators (FCC 15C - 15.207) was waived due to The EUT is powered thru the receiver assembly		

### 3.0 Description of Equipment Under Test

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Fan Control Switch	Hunter Fan	Inteli Touch Transmitter	NA

EUT receive date:	11/17/2008
EUT receive condition:	Good

Description of EUT provided by Client:

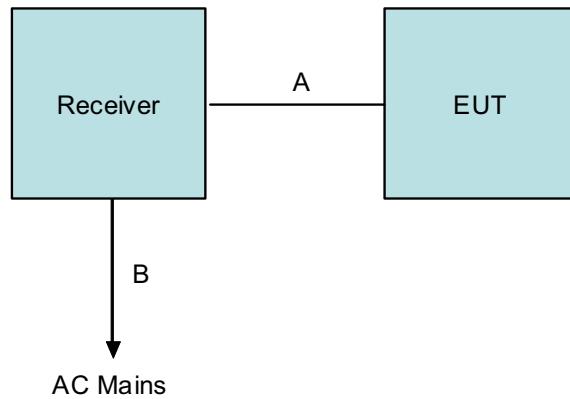
The device is a 3 button RF control switch with a power control. The Switch controls the Fan and the Lighting for the Fan assembly.

Description of EUT exercising:

The device was placed in a continuous transmit state for the emissions testing. The modulation was present for all the scans and plots.

**4.0 System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)****Method:**

Record the details of EUTcabling, document the support equipment, and show the interconnections in a block diagram.

**Drawing:**

System Block Diagram

**4.0 System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)****Data:**

EUT Cabling						
ID	Description	Length	Shielding	Ferrites	Connection	
					From	To
A	Harness	1.0m	No	No	EUT	Receiver
B	Power Cord	1.5m	No	No	Receiver	AC Mains

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
Reciever	Hunter Fan	W63	NA

## 5.0 Overview of EUT (Low Power Transmitters) (FCC 15C - EUT Overview)

**Method:**

Complete the overview spreadsheet.

Related Submittal(s) Grants: This report is for use with an application for certification of a low power transmitter. One transmitter is included in the application.

**Results: The sample tested was found to Comply.**

**Data:**

Applicant	Hunter Fan 2500 Frisco Ave. Memphis TN 38114
Trade Name & Model No.	Inteli Touch
FCC Identifier	H2WCASA9T
Use of product	Remote Ceiling Fan Switch
Transmitter activation	<input checked="" type="checkbox"/> Manual and automatically deactivate within 5 seconds of being released <input type="checkbox"/> Periodic transmissions
Frequency Range (MHz)	303
Antenna Type (15.203)	Permanently Attach
Manufacturer name & address	Hunter Fan 2500 Frisco Ave. Memphis TN 38114

Related Submittals and Grants:	This report is for use with an application for certification of a low power transmitter. One transmitter is included in the application.
Additions, deviations and exclusions from standards	None

## 6.0 Restrictions (FCC 15C - 15.231(a))

### Method:

15.231(a) The provisions of this section are restricted to periodic operation within the band 40.66-40.70 MHz and above 70 MHz. Except as shown in paragraph (e) of this section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Continuous transmissions, voice, video and the radio control of toys are not permitted. Data is permitted to be sent with a control signal. The following conditions shall be met to comply with the provisions for this periodic operation:

(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

(3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

(4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition

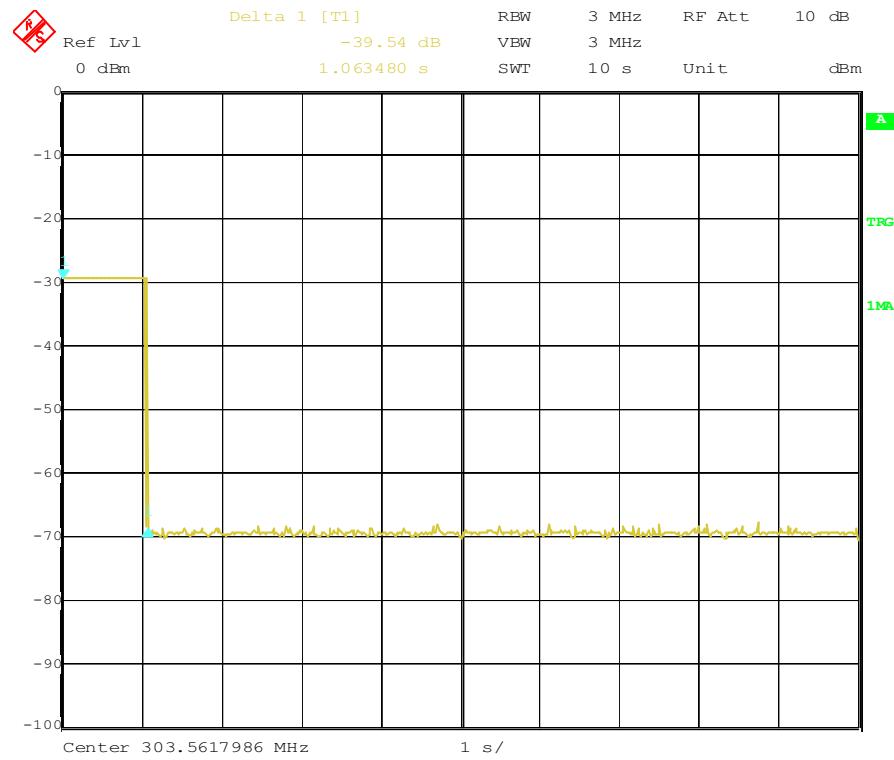
(5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmissions are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

### Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Cable E05, <18GHz	Huber-Suhner	Sucoflex 104PEA	E05	05/05/2008	05/05/2009
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/11/2008	10/11/2009

**Results: The sample tested was found to Comply.**

### Plot:



Date: 20.NOV.2008 09:55:51

5 Second Shutoff Plot

## 6.0 Restrictions (FCC 15C - 15.231(a))

**Data:**

## 15.231(a)

## Response

## Requirement

Frequency Range (Mhz, max)	303	40.66-40.70 MHz and > 70MHz
Frequency Range (MHz, min)	303	40.66-40.70 MHz and > 70MHz
Transmit only control signal?	Yes	Only control signal allowed
Continuous transmission?	No	No
Voice transmission?	No	No
Video transmission?	No	No
Radio control of toy?	No	No

## 15.231(a)(1)

Manually operated?	Yes	
Deactivates within 5 seconds?	Yes	Yes
Show plot (10 second sweep)	Yes	

## 15.231(a)(2)

Automatically operated?	No	
Deactivates within 5 seconds?	NA	
Show plot (10 second sweep)	NA	

## 15.231(a)(3)

Periodically transmits at predetermined intervals?	No	No
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## 7.0 Duty Cycle Determination (FCC 15A - 15.35(c))

### Method:

(c) Unless otherwise specified, e.g. §15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

Determine the period of the pulse train, T, in mSec and record the results. T is defined as the time from the beginning of one pulse train to the beginning of the next pulse train.

Count the number of different types of pulses, N and record the results.

For each of the different types of pulses, count the number of occurrences within one pulse train.

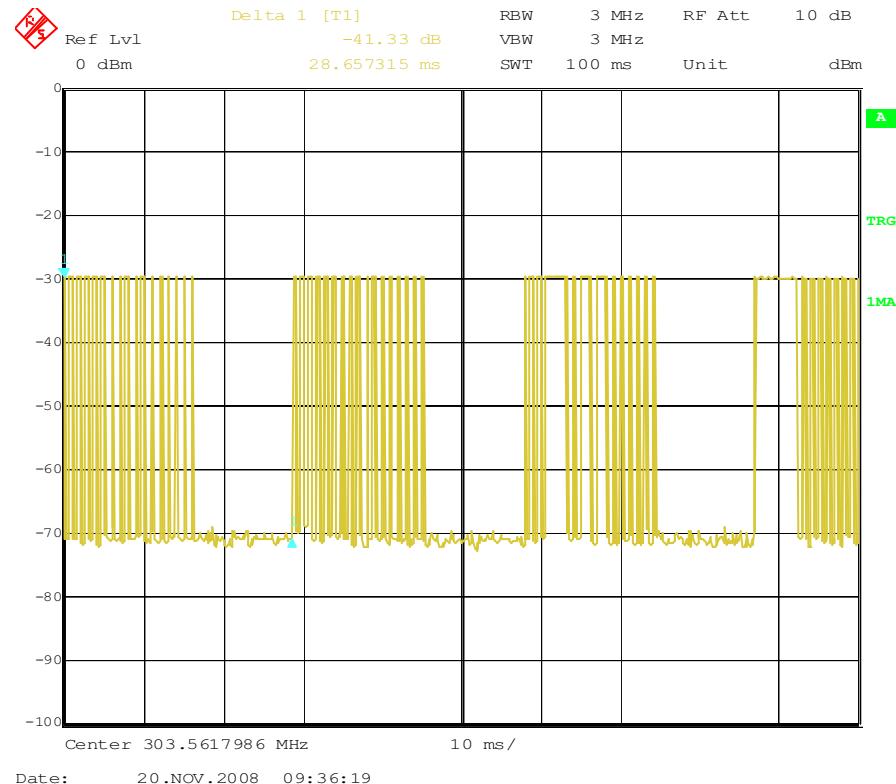
Use the Duty Cycle Correction Factor, DCCF, from the results table and use it to adjust the field strength measurements recorded for radiated emissions.

### Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Cable E05, <18GHz	Huber-Suhner	Sucoflex 104PEA	E05	05/05/2008	05/05/2009
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/11/2008	10/11/2009

### Results: The sample tested was found to Comply.

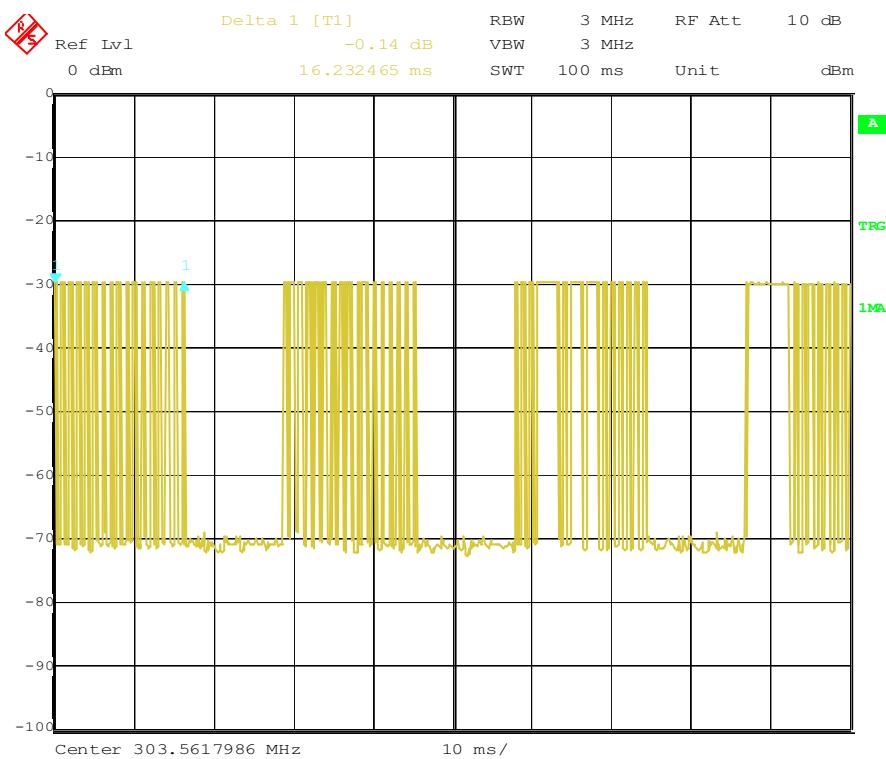
### Plot:



Complete Pulse Train

## 7.0 Duty Cycle Determination (FCC 15A - 15.35(c))

### Plot:

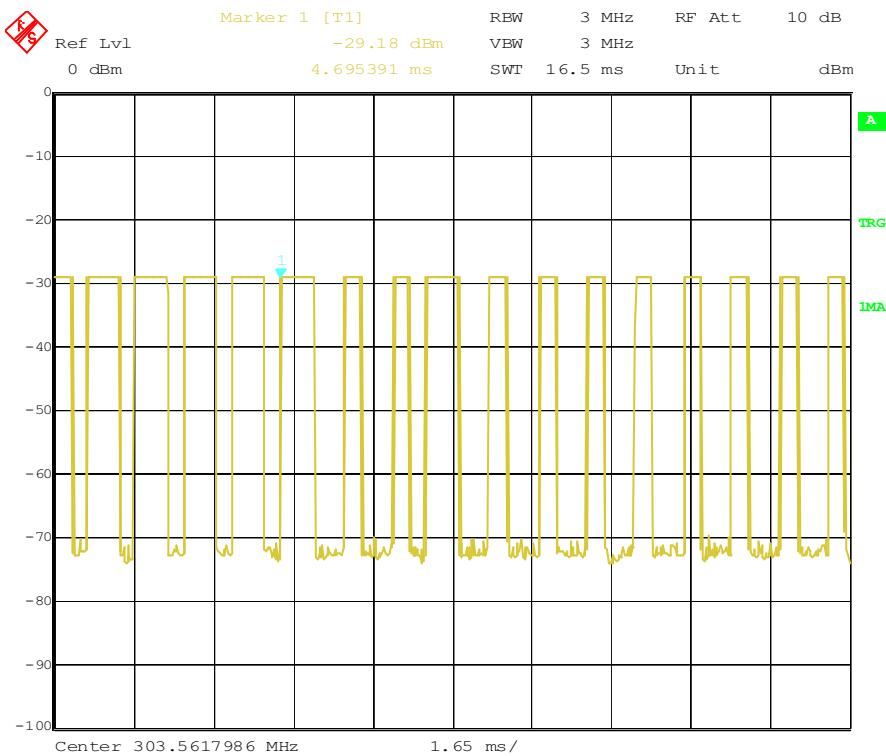


Date: 20.NOV.2008 09:37:03

Complete On-Time Pulse Train

## 7.0 Duty Cycle Determination (FCC 15A - 15.35(c))

### Plot:

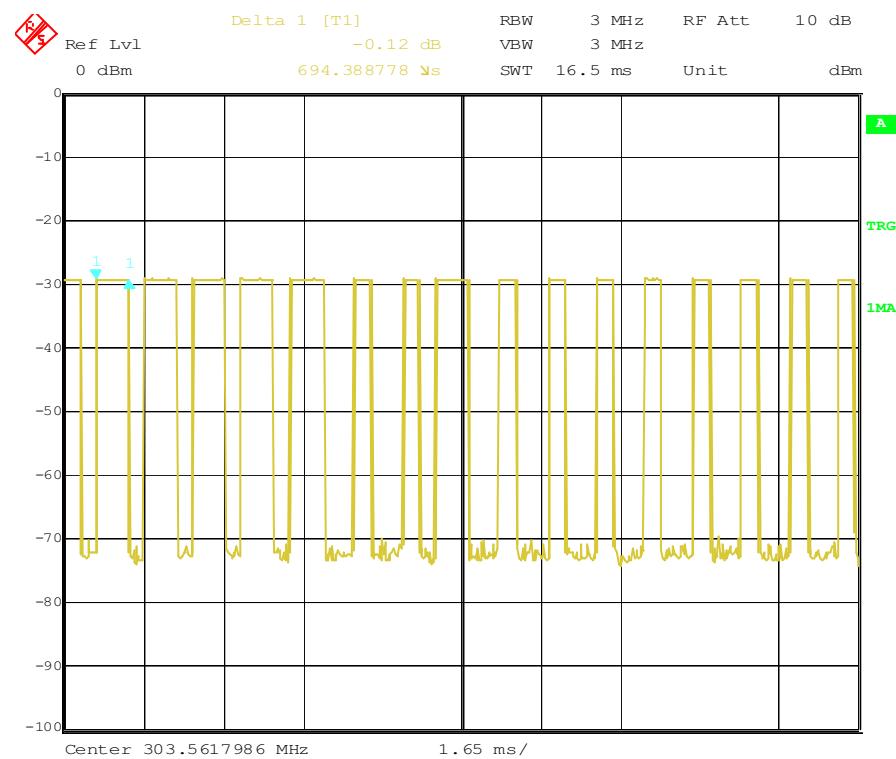


Date: 20.NOV.2008 09:38:16

16.5ms Single On-Time Pulse

## 7.0 Duty Cycle Determination (FCC 15A - 15.35(c))

### Plot:

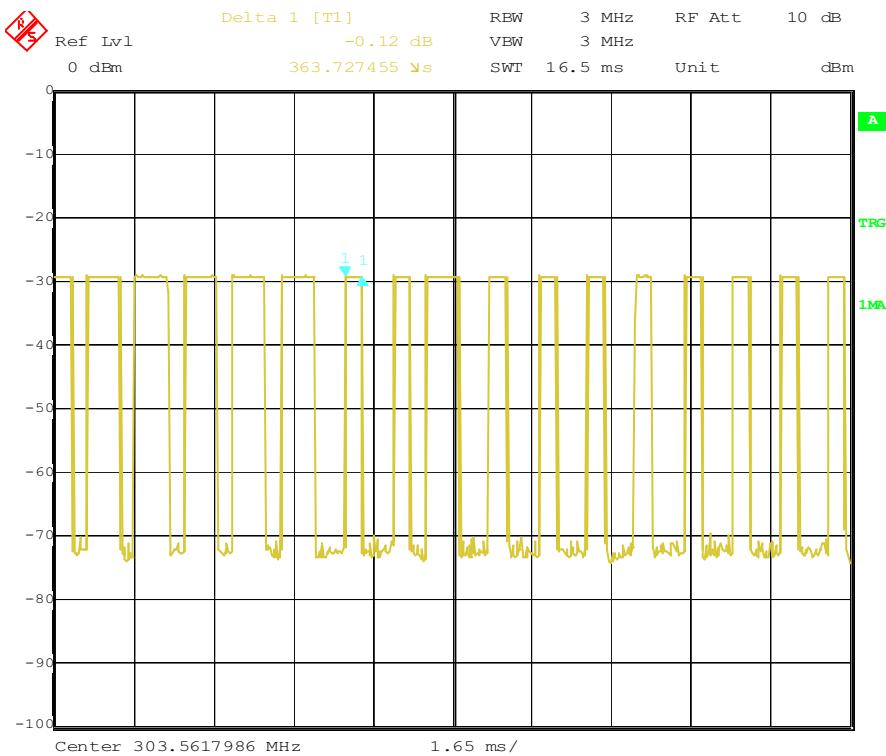


Date: 20.NOV.2008 09:42:59

0.694uS Pulse

## 7.0 Duty Cycle Determination (FCC 15A - 15.35(c))

### Plot:



Date: 20.NOV.2008 09:41:48

0.364uS Pulse

## 7.0 Duty Cycle Determination (FCC 15A - 15.35(c))

## Data:

Duration of Pulse Train, T (mSec):	28.66
Averaging Interval, A <sub>I</sub> (mSec):	28.66
Number of different Pulses, N:	2

	Number (#P <sub>x</sub> )	Pulse Width, mSec (PW <sub>x</sub> )	Product (#P <sub>x</sub> )*(PW <sub>x</sub> )
Pulse Width 1	6	0.694388	4.166328
Pulse Width 2	11	0.363727	4.000997
Pulse Width 3			
Pulse Width 4			
Pulse Width 5			
Pulse Width 6			
Pulse Width 7			
Pulse Width 8			
Pulse Width 9			
Pulse Width 10			

Duty Cycle:	0.284972959
Duty Cycle Correction Factor, dB:	-10.9

$$T_{on} = (PW_1 * \#P_1) + (PW_2 * \#P_2) + \dots + (PW_n * \#P_n)$$

$$DutyCycle = T_{on} \div A_I$$

$$DCCF = 20 * \log_{10}(DutyCycle)$$

## 8.0 Radiated Emissions (FCC 15C - 15.231(b))

### Method:

(b) In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the limits specified in FCC Part 15.231(b).

Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in §15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

For radiated emission measurements, the EUT is attached to a styro-foam block and placed on a non-conductive table whose top is 80cm above the ground plane. If the EUT is handheld, the signal shall be maximized through rotation and placement in the three orthogonal axes.

During the test the EUT is rotated and the antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 3 meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. All readings are extrapolated back to the equivalent 3-meter reading using inverse scaling with distance.

Radiated emission measurements were performed from 30 MHz to 10 times the highest frequency generated in the EUT.

Analyzer resolution is:

100 kHz or greater for frequencies 1000 MHz and below,  
1 MHz for frequencies above 1000 MHz.

The Peak value of the Field Strength was measured. The Average value was obtained from the Peak by subtracting the Duty Cycle Correction Factor.

### Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Antenna, BiLog, 20-2000MHz	Chase	CBL6112B	211386	09/26/2008	09/26/2009
Antenna, Horn, <18 GHz	EMCO	3115	BOX-HORN1	08/08/2008	08/08/2009
Cable E01, <18GHz	Pasternack	RG214/U	E01	05/05/2008	05/05/2009
Cable E05, <18GHz	Huber-Suhner	Sucoflex 104PEA	E05	05/05/2008	05/05/2009
Cable E201, 18 GHz, N, 3m	Megaphase	TM18 NKNK 118	E201	01/16/2008	01/16/2009
Cable MP3, 18 GHz, N, 10m	Megaphase	G919-NKNK-394	MP3	05/05/2008	05/05/2009
Cable ST1, 7m, N-N, 18 GHz	Storm Products Co.	PR90-206-7MTR	ST1	01/16/2008	01/16/2009
EMI Receiver	Hewlett Packard	8546A	213109	09/29/2008	09/29/2009
EMI Receiver, Preselector section	Hewlett Packard	85460A	213108	09/29/2008	09/29/2009
Preamplifier, 20 MHz to 18 GHz, 40 dB	A.H. Systems	PAM-0118	200108	03/27/2008	03/27/2009
Preamplifier, 20MHz to 2GHz, 30 dB	A.H. Systems	PAM-0202	200082	11/26/2007	11/26/2008
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/11/2008	10/11/2009

**Results: The sample tested was found to Comply.**

## 8.0 Radiated Emissions (FCC 15C - 15.231(b))

### Photo:



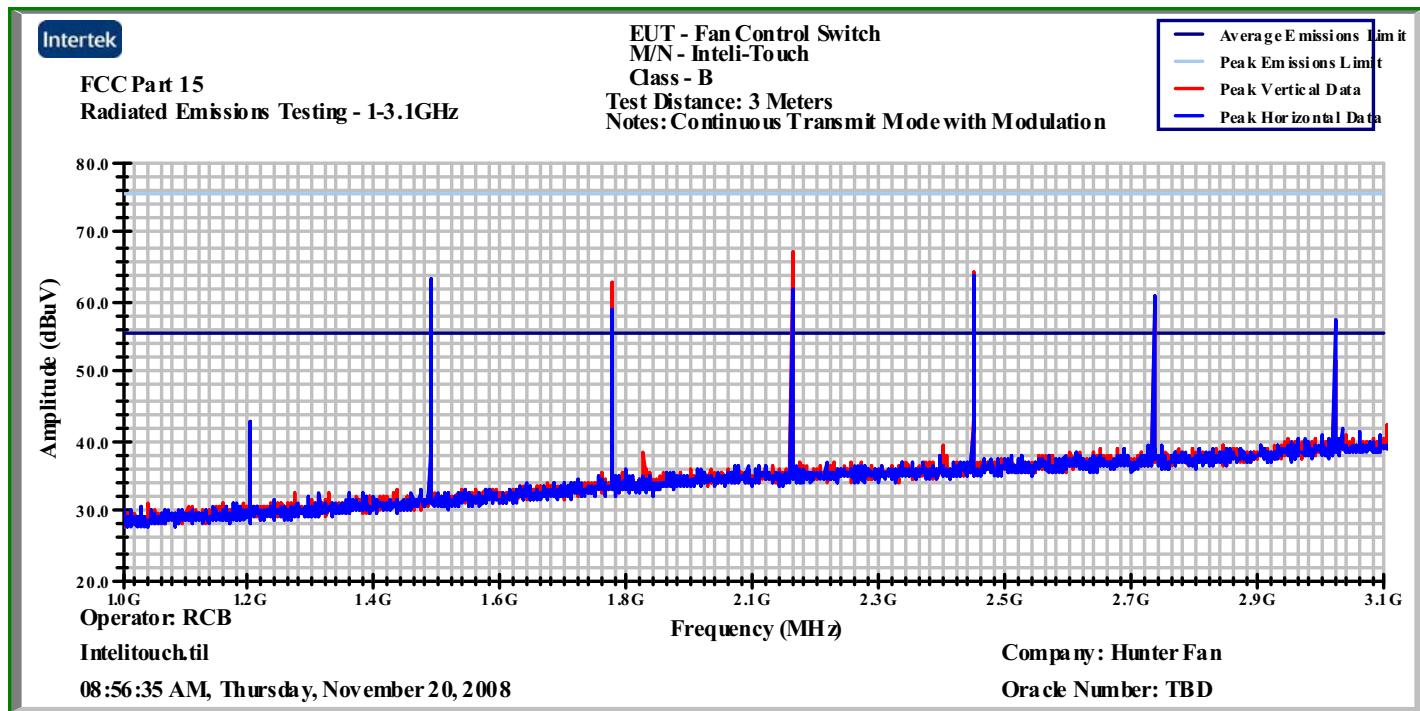
Test Setup - Front View

**8.0 Radiated Emissions (FCC 15C - 15.231(b))****Photo:**

Test Setup - Rear View

## 8.0 Radiated Emissions (FCC 15C - 15.231(b))

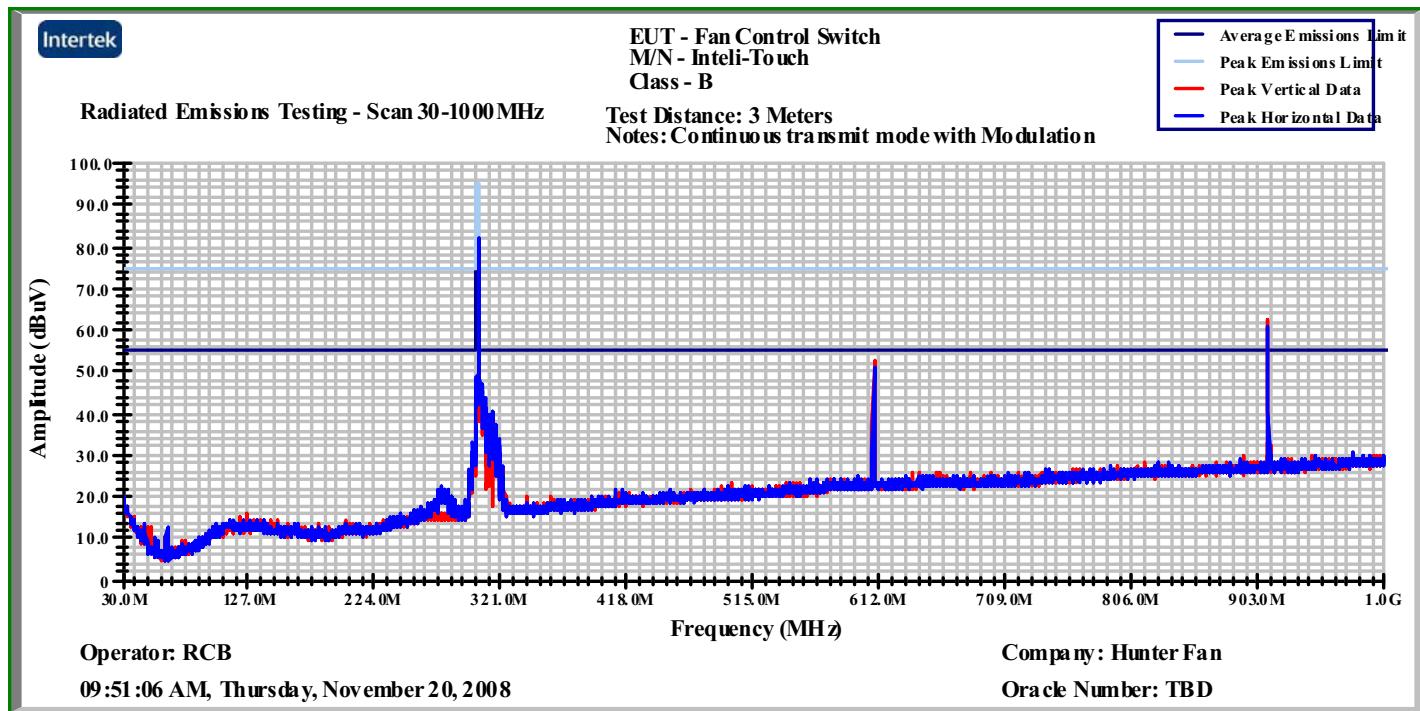
Plot:



Radiated Emissions from 1-3.1GHz

## 8.0 Radiated Emissions (FCC 15C - 15.231(b))

Plot:



Radiated Emissions from 30-1000MHz

## 8.0 Radiated Emissions (FCC 15C - 15.231(b))

### Data:

Frequency Range (MHz): 1000-3500

Input power: Internal

Test Distance (m): 3

Modifications for compliance (y/n): n

#### Notes:

A	B	C	D	E	F	G	H	I	J	K
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Duty Cycle Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Axis / Detector
H	1517.810	70.4	25.1	6.2	40.6	0.0	61.1	74.8	-13.7	NA
H	1517.810	70.4	25.1	6.2	40.6	10.9	50.2	54.8	-4.6	NA
V	1517.810	70.1	25.2	6.2	40.6	0.0	60.9	74.8	-13.9	NA
V	1517.810	70.1	25.2	6.2	40.6	10.9	50.0	54.8	-4.8	NA
H	1821.358	67.0	25.1	6.2	40.7	0.0	57.6	74.8	-17.2	NA
H	1821.358	67.0	25.1	6.2	40.7	10.9	46.7	54.8	-8.1	NA
V	1821.358	68.4	25.2	6.2	40.7	0.0	59.0	74.8	-15.8	NA
V	1821.358	68.4	25.2	6.2	40.7	10.9	48.1	54.8	-6.7	NA
H	2124.908	68.5	27.3	9.1	40.8	0.0	64.1	74.8	-10.7	NA
H	2124.908	68.5	27.3	9.1	40.8	10.9	53.2	54.8	-1.6	NA
V	2124.908	69.5	27.1	9.1	40.8	0.0	64.9	74.8	-9.9	NA
V	2124.908	69.5	27.1	9.1	40.8	10.9	54.0	54.8	-0.8	NA
H	2428.483	68.3	27.3	9.1	40.9	0.0	63.8	74.8	-11.1	NA
H	2428.483	68.3	27.3	9.1	40.9	10.9	52.9	54.8	-1.9	NA
V	2428.483	68.6	27.1	9.1	40.9	0.0	63.9	74.8	-10.9	NA
V	2428.483	68.6	27.1	9.1	40.9	10.9	53.0	54.8	-1.8	NA
H	2732.028	67.2	28.1	9.1	40.9	0.0	63.4	74.8	-11.4	NA
H	2732.028	67.2	28.1	9.1	40.9	10.9	52.5	54.8	-2.3	NA
V	2732.028	63.8	28.0	9.1	40.9	0.0	60.0	74.8	-14.8	NA
V	2732.028	63.8	28.0	9.1	40.9	10.9	49.1	54.8	-5.7	NA
H	3035.553	55.5	29.9	10.6	40.9	0.0	55.2	74.8	-19.6	NA
H	3035.553	55.5	29.9	10.6	40.9	10.9	44.3	54.8	-10.5	NA
V	3035.553	54.1	29.8	10.6	40.9	0.0	53.7	74.8	-21.1	NA
V	3035.553	54.1	29.8	10.6	40.9	10.9	42.8	54.8	-12.0	NA
<b>Calculations</b>			G=C+D+E-F		I=G-H					

Radiated Emissions from 1-3.1GHz

## 8.0 Radiated Emissions (FCC 15C - 15.231(b))

## Data:

Frequency Range (MHz): 30-1000

Input power: Internal

Test Distance (m): 3

Modifications for compliance (y/n): n

## Notes:

A	B	C	D	E	F	G	H	I	J	K
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Duty Cycle Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Axis / Detector
H	303.563	96.3	13.9	3.5	30.8	0.0	82.8	94.8	-12.0	NA
H	303.563	96.3	13.9	3.5	30.8	10.9	71.9	74.8	-2.9	NA
V	303.563	94.4	13.6	3.5	30.8	0.0	80.6	94.8	-14.2	NA
V	303.563	94.4	13.6	3.5	30.8	10.9	69.7	74.8	-5.1	NA
H	607.126	63.6	19.3	5.2	30.7	0.0	57.4	74.8	-17.4	NA
H	607.126	63.6	19.3	5.2	30.7	10.9	46.5	54.8	-8.3	NA
V	607.126	61.9	19.0	5.2	30.7	0.0	55.4	74.8	-19.4	NA
V	607.126	61.9	19.0	5.2	30.7	10.9	44.5	54.8	-10.3	NA
H	910.687	64.9	21.7	6.3	30.5	0.0	62.4	74.8	-12.4	NA
H	910.687	64.9	21.7	6.3	30.5	10.9	51.5	54.8	-3.3	NA
V	910.687	64.7	20.5	6.3	30.5	0.0	61.0	74.8	-13.8	NA
V	910.687	64.7	20.5	6.3	30.5	10.9	50.1	54.8	-4.7	NA
Calculations		G=C+D+E-F			I=G-H					

Radiated Emissions from 30-1000MHz

## 9.0 Conducted emissions on AC power lines (Conducted Emissions)

### Method:

Equipment setup for conducted disturbance tests shall follow the guidelines of ANSI C63.4:2003.

Measurements in the frequency range of 150kHz to 30 MHz shall be performed with a quasi-peak or average detector instrument that meets the requirements of Section One of CISPR 16. An AMN shall be used to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN defined in CISPR 16 shall be used.

In the frequency range of 150 kHz to 30 MHz, a resolution/video bandwidth of 9kHz/30kHz or greater shall be used.

The EUT shall be located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

If a flexible mains cord is provided by the manufacturer that is in excess of 1m, the excess cable shall be folded back and forth as far as possible to form a bundle not exceeding 0.4m in length.

The EUT shall be arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance shall be measured between each current carrying conductor and the reference ground. Each measured values shall be reported.

If EUT is intended for tabletop use, the EUT shall be placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is to be placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table shall be constructed of non-conductive materials. Its dimensions are at least 1m by 1.5m, but may be extended for larger EUT.

If EUT is floor standing, the floor standing EUT shall be placed on a horizontal metal ground plane and isolated from the ground plane by up to 12 mm of insulating material. The metal ground plane shall extend at least 0.5m beyond the boundaries of the EUT and had minimum dimensions of 2m by 2m.

### TEST SITE

The test site for conducted emissions is located at 1950 Evergreen Blvd, Suite 100, Duluth, Georgia 30096. The VCCI Registration Number for this site is C-2818.

### MEASUREMENT UNCERTAINTY

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes. The values given are the measurement uncertainty values with an expanded uncertainty of k=2.

150 kHz to 30 MHz: +/- 2.8 dB

### Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Cable TT1, 6ft, N(Male) to N(Male)	Mini-Circuits	CBL-6FT-NMNM	TT1	05/05/2008	05/05/2009
Cable TT4	Andrews	Cable TT4	TT4 211404	05/05/2008	05/05/2009
EMI Receiver	Hewlett Packard	8546A	213109	09/29/2008	09/29/2009
EMI Receiver, Preselector section	Hewlett Packard	85460A	213108	09/29/2008	09/29/2009
LISN	Fischer Custom Comm	FCC-LISN-50/250-	213182	05/06/2008	05/06/2009

**Results: The sample tested was found to Comply.**

**9.0 Conducted emissions on AC power lines (Conducted Emissions)****Data:**

There were no conducted emissions generated by the transmitter board within 20dB of the limit.

## 10.0 Bandwidth Requirements (FCC 15C - 15.231(c))

### Method:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

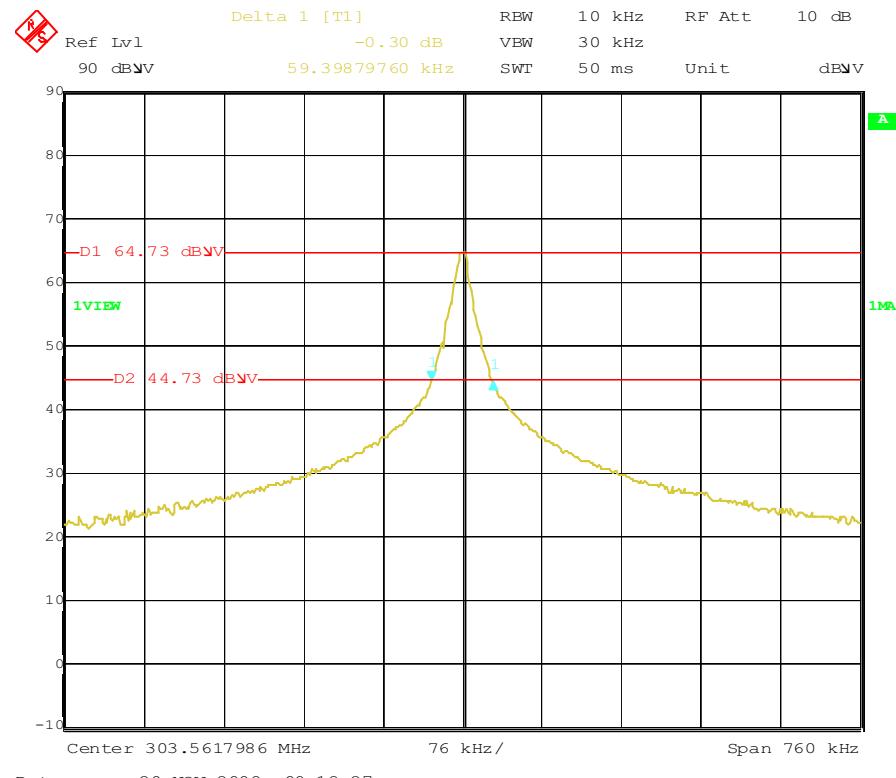
- Center Frequency is set to the fundamental of transmitter.
- Resolution Bandwidth is set to approximately 1% of the emission bandwidth.
- Video Bandwidth is set greater than or equal to the Resolution Bandwidth.

### Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Cable E05, <18GHz	Huber-Suhner	Sucoflex 104PEA	E05	05/05/2008	05/05/2009
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/11/2008	10/11/2009

**Results: The sample tested was found to Comply.**

### Plot:



Bandwidth plot at 20dB down from the carrier

**10.0 Bandwidth Requirements (FCC 15C - 15.231(c))****Data:**

Fundamental Frequency MHz	Measured Bandwidth MHz	Bandwidth Limit MHz
303	0.059398	0.7575

Suggested Instrument Settings	
RBW (kHz):	8
VBW (kHz):	23
Span (MHz):	0.758
Sweep time (s):	>1