

Certification Test Report

FCC ID: SNA-WFC2 IC: 9458A-WFC2

FCC Rule Part: 15.247 IC Radio Standards Specification: RSS-210

ACS Report Number: 11-0003.W06.25.A

Manufacturer: Woodstream Corporation Model: WFC

Test Begin Date: January 4, 2011 Test End Date: January 6, 2011

Report Issue Date: January 17, 2011

FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612-0

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Reviewed by:

Kirby Munroe Director, Wireless Certifications ACS, Inc.

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This report contains 19 pages

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1 GENERAL

1.1 Purpose

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations and Industry Canada's Radio Standards Specification RSS-210.

1.2 Product description

1.2.1 General

The Havahart® Wireless Fence Collar model WFC is a component in the Custom-Shape and Radial-Shape Wireless Dog Fence from Havahart®. The system is driven by a nanoLOC TRX 2.4 GHz transceiver that has been enhanced with complex algorithms, strategic distortion filtering and modular signal amplification to deliver advanced time-of-flight-ranging technology and precision event-stamp mapping.

Technical Details: Frequency Range: 2400-2483.5MHz Operating channels: 1 (2441.7 MHz) Modulation 802.15.4A CSS (Chirp Spread Spectrum) Operating Voltage: 3.0V CR123A Battery

Manufacturer Information: Woodstream Corporation 69 N. Locust St. Lititz, PA 17543

Test Sample Serial Number(s): 1

Test Sample Condition: The test samples were provided in good working order with no visible defects.

1.3 Test Methodology and Considerations

For radiated emissions the EUT was evaluated in multiple orientations. Test orientations consisted of the EUT placed in the X, Y, and Z planes. Test setup photographs accompanying this report provide additional detail.

2 TEST FACILITIES

2.1 Location

The radiated and conducted emissions test sites are located at the following address:

Advanced Compliance Solutions 5015 B.U. Bowman Drive Buford, GA 30518 Phone: (770) 831-8048 Fax: (770) 831-8598

2.2 Laboratory Accreditations/Recognitions/Certifications

ACS is accredited to ISO/IEC 17025 by the National Institute of Standards and Technology under their National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 200612-0. Unless otherwise specified, all tests methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

The Semi-Anechoic Chamber Test Site, Open Area Test Site (OATS) and Conducted Emissions Site have been fully described, submitted to, and accepted by the FCC, Industry Canada and the Japanese Voluntary Control Council for Interference by information technology equipment.

FCC Registration Number: 894540 Industry Canada Lab Code: IC 4175A-1 VCCI Member Number: 1831

- VCCI OATS Registration Number R-1526
- VCCI Conducted Emissions Site Registration Number: C-1608

2.3 Radiated Emissions Test Site Description

2.3.1 Semi-Anechoic Chamber Test Site

The Semi-Anechoic Chamber Test Site consists of a 20' x 30' x 18' shielded enclosure. The chamber is lined with Toyo Ferrite Grid Absorber, model number FFG-1000. The ferrite tile grid is $101 \times 101 \times 19$ mm thick and weighs approximately 550 grams. These tiles are mounted on steel panels and installed directly on the inner walls of the chamber.

The turntable is 150cm in diameter and is located 160cm from the back wall of the chamber. The chamber is grounded via 1 - 8' copper ground rod, installed at the center of the back wall, it is bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is all steel, flush mounted table installed in an all steel frame. The table is remotely operated from inside the control room located 25' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Behind the turntable is a 3' x 6' x 4' deep shielded pit used for support equipment if necessary. The pit is equipped with 1 - 4" PVC chases from the turntable to the pit that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit.

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3-1 below:

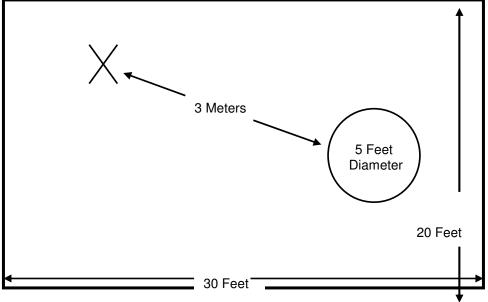


Figure 2.3-1: Semi-Anechoic Chamber Test Site

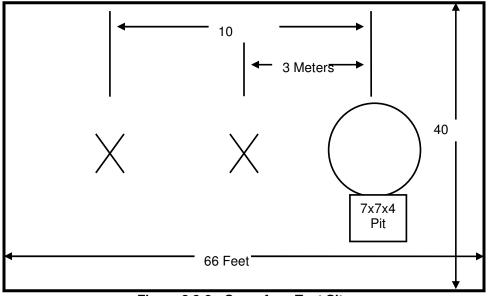
2.3.2 Open Area Tests Site (OATS)

The open area test site consists of a 40' x 66' concrete pad covered with a perforated electroplated galvanized sheet metal. The perforations in the sheet metal are 1/8" holes that are staggered every 3/16". The individual sheets are placed to overlap each other by 1/4" and are riveted together to provide a continuous seam. Rivets are spaced every 3" in a 3 x 20 meter perimeter around the antenna mast and EUT area. Rivets in the remaining area are spaced as necessary to properly secure the ground plane and maintain the electrical continuity.

The entire ground plane extends 12' beyond the turntable edge and 16' beyond the antenna mast when set to a 10 meter measurement distance. The ground plane is grounded via 4 - 8' copper ground rods, each installed at a corner of the ground plane and bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is an all aluminum 10' flush mounted table installed in an all aluminum frame. The table is remotely operated from inside the control room located 40' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Adjacent to the turntable is a 7' x 7' square and 4' deep concrete pit used for support equipment if necessary. The pit is equipped with 5 - 4" PVC chases from the pit to the control room that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit. The pit is covered with 2 sheets of 1/4" diamond style re-enforced steel sheets. The sheets are painted to match the perforated steel ground plane; however the underside edges have been masked off to maintain the electrical continuity of the ground plane. All reflecting objects are located outside of the ellipse defined in ANSI C63.4.



A diagram of the Open Area Test Site is shown in Figure 2.3-2 below:

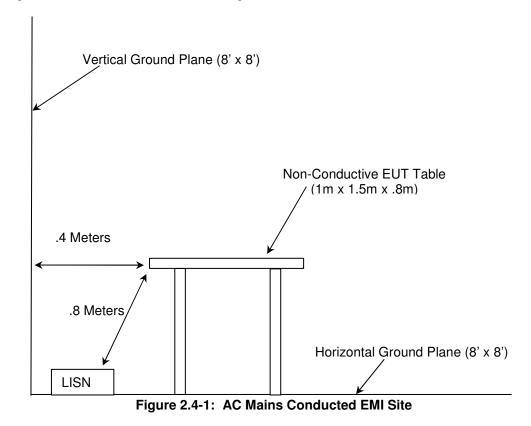
Figure 2.3-2: Open Area Test Site

2.4 Conducted Emissions Test Site Description

The AC mains conducted EMI site is located in the main EMC lab. It consists of an 8' x 8' solid aluminum horizontal group reference plane (GRP) bonded every 3" to an 8' X 8' vertical ground plane.

The site is of sufficient size to test table top and floor standing equipment in accordance with section 6.1.4 of ANSI C63.4.

A diagram of the room is shown below in figure 4.1.3-1:



3 APPLICABLE STANDARD REFERENCES

The following standards were used:

- ANSI C63.4-2003: Method of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the 9KHz to 40GHz
- US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2010
- US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2010
- FCC KDB Publication No. 558074 Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247), March 2005
- Industry Canada Radio Standards Specification: RSS-210 Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Issue 8 Dec 2010
- Industry Canada Radio Standards Specification: RSS-GEN General Requirements and Information for the Certification of Radiocommunication Equipment, Issue 3, Dec 2010.

4 LIST OF TEST EQUIPMENT

The calibration interval of test equipment is annually or the manufacturer's recommendations. Where the calibration interval deviates from the annual cycle based on the instrument manufacturer's recommendations, it shall be stated below.

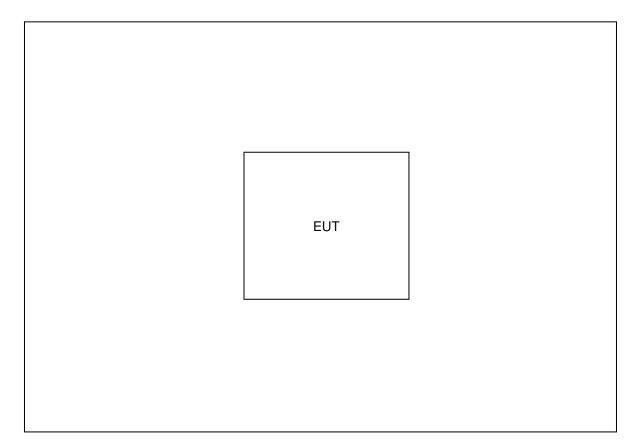
						Calibration
AssetID	Manufacturer	Model #	Equipment Type	Serial #	Last Calibration Date	Due Date
1	Rohde & Schwarz	ESM - Display	Spectrum Analyzers	833771/007	9/23/2010	9/23/2012
2	Rohde & Schwarz	ESM-Receiver	Spectrum Analyzers	839587/003	9/23/2010	9/23/2012
3	Rohde & Schwarz	ESM - Display	Spectrum Analyzers	839379/011	2/2/2009	2/2/2011
4	Rohde & Schwarz	ESM - Receiver	Spectrum Analyzers	833827/003	2/2/2009	2/2/2011
25	Chase	OBL6111	Antennas	1043	9/13/2010	9/13/2012
30	SpectrumTechnologies	DRH-0118	Antennas	970102	5/8/2009	5/8/2011
73	Agilent	8447D	Amplifiers	2727A05624	5/26/2010	5/26/2011
152	EMCO	3825/2	LISN	9111-1905	11/2/2010	11/2/2012
		Chamber EM				
167	ACS	Cable Set	Cable Set	167	1/25/2010	1/25/2011
168	Hewlett Packard	11947A	Attenuators	44829	2/4/2010	2/4/2011
267	Agilent	N1911A	Meters	MY45100129	11/2/2010	11/2/2011
268	Agilent	N1921A	Sensors	MY45240184	12/2/2010	12/2/2011
283	Rohde & Schwarz	FSP40	Spectrum Analyzers	1000033	8/31/2010	8/31/2011
291	Florida RF Cables	SMRE-200W-120 SMRE	Cables	None	12/7/2010	12/7/2011
		SVR-290AW-				
292	Florida RF Cables	480.0-SMR	Cables	None	12/7/2010	12/7/2011
324	ACS	Belden	Cables	8214	7/9/2010	7/9/2011
338	Hewlett Packard	8449B	Amplifiers	3008A01111	10/29/2010	10/29/2011
340	Aeroflex/Weinschel	AS-20	Attenuators	7136	10/5/2010	10/5/2011
422	Florida RF Cables	SM5-200AW-72.0- SMR	Cables	0805	12/29/2010	12/29/2011
432	Marowave Circuits	H3G020G4	Filters	264066	7/16/2010	7/16/2011

5 SUPPORT EQUIPMENT

Table 5-1: Support Equipment

Item	Equipment Type	Manufacturer	Model Number	Serial Number
	The EUT was tested	stand-alone and required	d no external support	equipment.

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM



7 SUMMARY OF TESTS

Along with the tabular data shown below, plots were taken of all signals deemed important enough to document.

7.1 Antenna Requirement – FCC: Section 15.203

The EUT utilizes an integral Skywave dipole antenna part number 81-3000-A with 3dBi gain. The antenna is non-detachable which meets the requirements of 15.203 for unique antenna coupling.

7.2 Power Line Conducted Emissions – FCC: Section 15.207 IC: RSS-Gen 7.2.2

The EUT is battery operated therefore the requirements for AC power line conducted emissions are not applicable.

7.3 Radiated Emissions – FCC: Section 15.109(Unintentional Radiation) IC: RSS-210 2.6

7.3.1 Measurement Procedure

Radiated emissions tests were performed over the frequency range of 30MHz to 12.5GHz. Measurements of the radiated field strength were made at a distance of 3m from the boundary of the equipment under test (EUT) and the receiving antenna. The antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. Radiated measurements above 30MHz and below 1GHz were made with the Spectrum Analyzer's resolution bandwidth set to 120 KHz using a Quasi-peak detector. Above 1GHz, peak and average measurements were taken with the RBW and VBW set to 1MHz and 3MHz respectively.

7.3.2 Measurement Results

Results of the test are given in Table 7.3.2-1:

Frequency (MHz)	Level (dBuV)		Antenna Polarity					imit uV/m)		argin dB)
(1112)	pk	Qpk/Avg	(H/V)	(dB)	pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
31.08		17.06	V	-7.38		9.68		40.0		30.3
105.44		18.54	Н	-14.17		4.37		43.5		39.1
324.23		18.49	V	-10.42		8.07		46.0		37.9
487.137		41.26	Н	-5.54		35.72		46.0		10.3
703.61		20.29	V	-0.88		19.41		46.0		26.6
945.03		19.76	V	2.45		22.21		46.0		23.8

 Table 7.3.2-1: Radiated Emissions Tabulated Data

* Note: All emissions above 945.03 MHz were attenuated below the permissible limit.

7.4 6dB / 99% Bandwidth – FCC: Section 15.247(a)(2) IC: RSS-210 A8.2(a)

7.4.1 Measurement Procedure

The 6dB bandwidth was measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)". The RBW of the spectrum analyzer was set to 100 kHz and VBW 300 kHz. Span was set large enough to capture the entire emissions and >> RBW.

The 99% occupied bandwidth was measured with the spectrum analyzer span set to fully display the emission and approximately 20 dB below the peak level. The RBW was to 1% - 3% of the estimated emission bandwidth. The trace was set to max hold with a sample detector active. The occupied bandwidth measurement function of the analyzer was used for the 99% bandwidth.

7.4.2 Measurement Results

Results are shown below in table 7.4.2-1 and figure 7.4.2-1 to 7.4.2-2:

Table	7.4.2-1: 6dB / 99% Band	width
Frequency	6dB Bandwidth	99% Bandwidth
[MHz]	[MHz]	[MHz]
2441.7	58.24	57.20

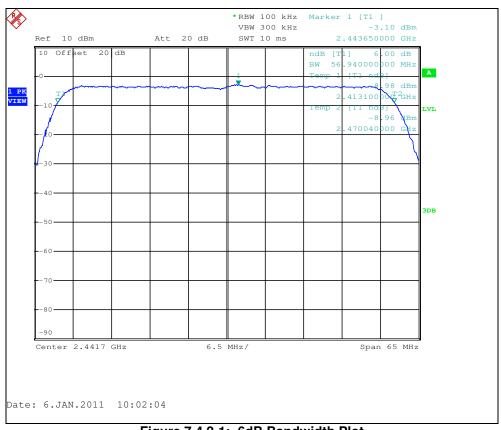


Figure 7.4.2-1: 6dB Bandwidth Plot



Figure 7.4.2-2: 99% Bandwidth Plot

7.5 Peak Output Power Requirement - FCC Section 15.247(b)(3) IC: RSS-210 A8.4(4)

7.5.1 Measurement Procedure

The Peak Output Power was measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)" Power Option 1. The RF output of the equipment under test was directly connected to the input of the power meter. The insertion loss for all cables and attenuators was included as an offset value.

Data was collected with the EUT operating at maximum power.

7.5.2 Measurement Results

Results are shown below in Table 7.5.2-1.

Frequency	Output Power
(MHz)	(dBm)
2441.7	20.7

Table 7.5.2-1: Peak Out	put Power
-------------------------	-----------

7.6 Spurious Emissions - FCC 15.247d IC:RSS-210 2.6, A8.5

7.6.1 RF Conducted Spurious Emissions

7.6.1.1 Measurement Procedure

The RF Conducted Spurious Emissions were measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)". The RF output of the equipment under test was directly connected to the input of the Spectrum Analyzer. The EUT was investigated for conducted spurious emissions from 30MHz to 25GHz, 10 times the highest fundamental frequency. For each measurement, the spectrum analyzer's RBW was set to 100 kHz and the VBW was set to 300 kHz. The peak detector and Max Hold function of the analyzer were utilized.

7.6.1.2 Measurement Results

In a 100 kHz bandwidth, the radio frequency power that was produced by the EUT emissions is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. RF Conducted Emissions are displayed in Figures 7.6.1.2-1 through 7.6.1.2-4.

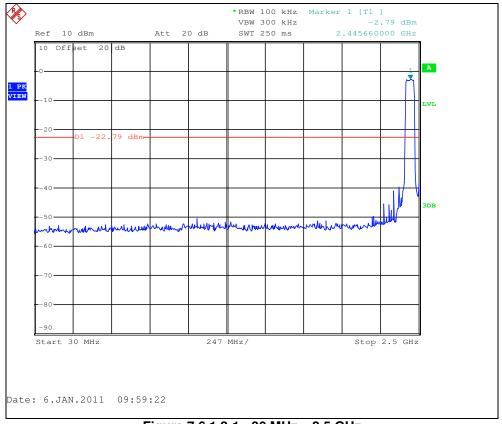
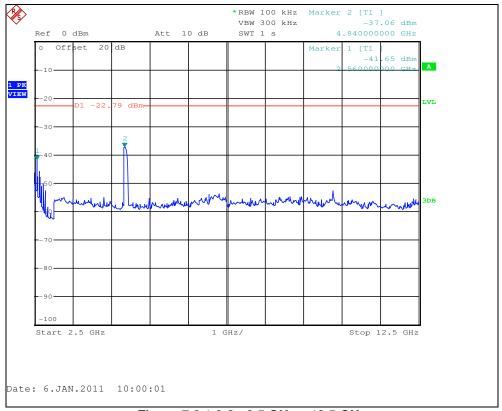
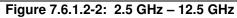
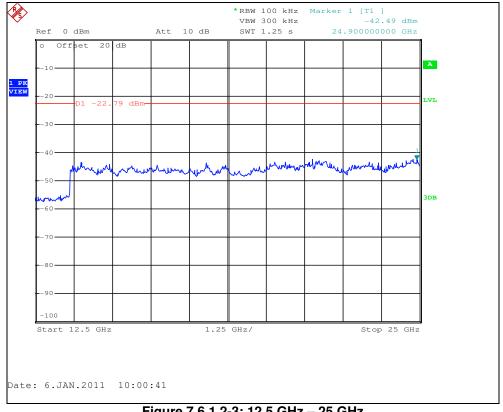


Figure 7.6.1.2-1: 30 MHz – 2.5 GHz









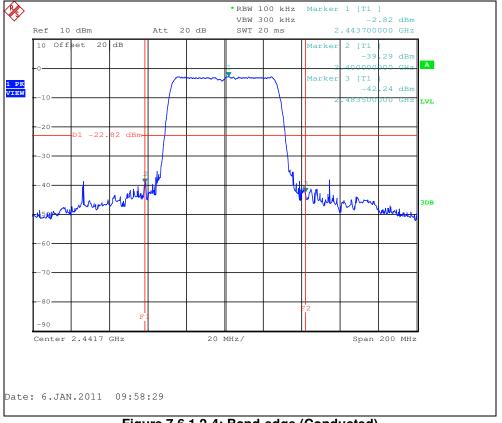


Figure 7.6.1.2-4: Band-edge (Conducted)

7.6.2 Radiated Spurious Emissions (Restricted Bands) - FCC Sec. 15.205 IC: RSS-210 2.6

7.6.2.1 Measurement Procedure

Radiated emissions tests were made over the frequency range of 30MHz to 25GHz, 10 times the highest fundamental frequency.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 120 kHz and a video bandwidth VBW of 300 kHz. For frequencies above 1000MHz, peak and average measurements were made with RBW and VBW of 1 MHz and 3 MHz respectively. The average emissions were further corrected by applying the duty cycle correction of the EUT for comparison to the average limit.

Each emission found to be in a restricted band as defined by section 15.205 was compared to the radiated emission limits as defined in section 15.209.

7.6.2.2 Duty Cycle Correction

For average radiated measurements, using a 18% duty cycle, the measured level was reduced by a factor 14.89dB. The duty cycle correction factor is determined using the formula: 20log (18/100) = -14.89dB.

A detailed analysis of the duty cycle timing is provided in the Theory of Operation accompanying this report.

7.6.2.3 Measurement Results

Radiated spurious emissions found in the band of 30MHz to 25GHz are reported in the table 7.6.3.2-1 below.

Frequency		evel BuV)	Antenna Polarity	Correction Factors		ted Level SuV/m)	Limit (dBuV/m)			largin (dB)
(MHz)	pk	Qpk/Avg	(H/V)	(dB)	pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
			2	X Postion (Flat)					
2495.8	64.01	55.52	Н	-4.79	59.22	35.83	74.0	54.0	14.8	18.2
2495.8	60.27	51.72	V	-4.79	55.48	32.03	74.0	54.0	18.5	22.0
4883.4	57.81	45.06	Н	2.12	59.93	32.28	74.0	54.0	14.1	21.7
4883.4	61.04	48.39	V	2.12	63.16	35.61	74.0	54.0	10.8	18.4
12208.5	53.16	40.03	Н	16.35	69.51	41.48	83.5	63.5	14.0	22.1
12208.5	51.64	38.87	V	16.35	67.99	40.32	83.5	63.5	15.5	23.2
			YF	Position (Uprig	ht)					
2495.8	60.07	52.05	Н	-4.79	55.28	32.36	74.0	54.0	18.7	21.6
2495.8	67.71	59.23	V	-4.79	62.92	39.54	74.0	54.0	11.1	14.5
4883.4	55.68	43.11	Н	2.12	57.80	30.33	74.0	54.0	16.2	23.7
4883.4	63.02	50.24	V	2.12	65.14	37.46	74.0	54.0	8.9	16.5
12208.5	48.01	36.25	Н	16.35	64.36	37.70	83.5	63.5	19.1	25.8
			z	Position (Side	e)					
2495.8	60.91	52.38	Н	-4.79	56.12	32.69	74.0	54.0	17.9	21.3
2495.8	54.86	44.22	V	-4.79	50.07	24.53	74.0	54.0	23.9	29.5
4883.4	63.57	50.92	Н	2.12	65.69	38.14	74.0	54.0	8.3	15.9
4883.4	57.94	44.96	V	2.12	60.06	32.18	74.0	54.0	13.9	21.8
12208.5	50.32	37.67	Н	16.35	66.67	39.12	83.5	63.5	16.8	24.4
12208.5	50.14	37.42	V	16.35	66.49	38.87	83.5	63.5	17.0	24.7

Table 7.6.2.3-1: Radiated Spurious Emissions Tabulated Data

* Note: All emissions above 12208.5 MHz were attenuated below the permissible limit.

7.6.2.4 Sample Calculation:

 $R_{C} = R_{U} + CF_{T}$

Where:

- CF_T = Total Correction Factor (AF+CA+AG)-DC (Average Measurements Only)
- R_U = Uncorrected Reading
- R_C = Corrected Level
- AF = Antenna Factor
- CA = Cable Attenuation
- AG = Amplifier Gain
- DC = Duty Cycle Correction Factor

Example Calculation: Peak

Corrected Level: 64.01 - 4.79 = 59.22dBuV/m Margin: 74dBuV/m - 59.22dBuV/m = 14.8dB

Example Calculation: Average

Corrected Level: 55.52 - 4.79 - 14.89 = 35.83dBuV Margin: 54dBuV - 35.83dBuV = 18.2dB

7.7 Peak Power Spectral Density- FCC Section 15.247(e) IC: RSS-210 A8.2(b)

7.7.1 Measurement Procedure

The power spectral density was measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)". The emission peaks within the pass band were located and zoomed in on. The spectrum analyzer RBW was set to 3 kHz and VBW 10 kHz. Span was adjusted to 500 kHz and the sweep time was calculated to be 170s (Span/3 kHz).

7.7.2 Measurement Results

Results are shown below in table 7.7.2-1 and figure 7.7.2-1.

		requency (MHz) 2441.7		PSD Level (dBm) -15.80	-
Ref 10 c		Att 20 dB	*RBW 3 kHz VBW 10 kHz *SWT 170 s	Marker 1 [T1] -15.80 dBm 2.442614000 GHz	
10 Offse	t 20 dB				A
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www.www.wt	mmmm	munn	LVL
-30					-
- 40					3DB
-50					-
70					-
-80					-
-90 Center 2.	44262 GHz	50 k	Hz/	Span 500 kH:	z

 Table 7.7.2-1: Peak Power Spectral Density

Figure 7.7.2-1: Power Spectral Density Plot

# 8 CONCLUSION

In the opinion of ACS, Inc. the Havahart® Wireless Fence Collar model WFC, manufactured by Woodstream Corporation meets the requirements of FCC Part 15 subpart C and Industry Canada's Radio Standards Specification RSS-210.

# **END REPORT**