

Certification Test Report

FCC ID: SNA-5145G IC: 9458A-5145G

FCC Rule Part: 15.209 IC Radio Standards Specification: RSS-210

ACS Report Number: 12-0177.W06.1A

Manufacturer: Woodstream Corporation Model: 5140G

> Test Begin Date: May 11, 2012 Test End Date: May 14, 2012

Report Issue Date: July 19, 2012

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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Model: 5140G

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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

The 5140G is a fence free pet containment system.

Technical Information:

Detail	Description
Frequency Range	10 kHz
Number of Channels	1
Modulation Format	AM
Operating Voltage	12 VDC
Antenna	Wire Loop AWG#18 Solid (Varying Length)

Manufacturer Information:

Woodstream Corporation 69 N. Locust Street Lititz, PA 17543

Test Sample Serial Number(s): 9

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

1.3 Test Methodology and Considerations

The EUT was tested in an orientation of typical installation. The boundary width setting was 5 which produces the maximum field width and highest field strength. A 5m length of solid AWG18 wire was included in the test setup to represent the perimeter boundary. See section 6.0 for additional test setup details.

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: 511277 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:

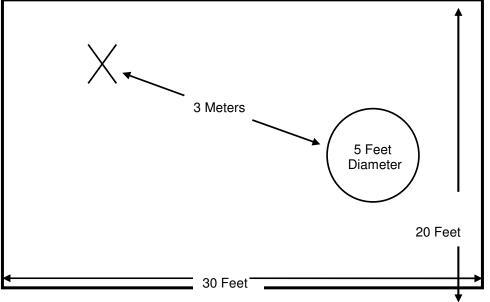


Figure 2.3-1: Semi-Anechoic Chamber Test Site

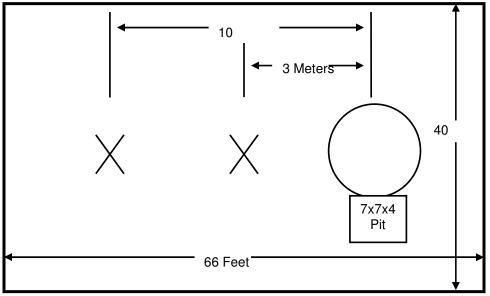
2.3.2 Open Area Tests Site (OATS)

The open area test site consists of a 40' x 66' concrete pad covered with a perforated electro-plated 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 reenforced 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 ground 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:

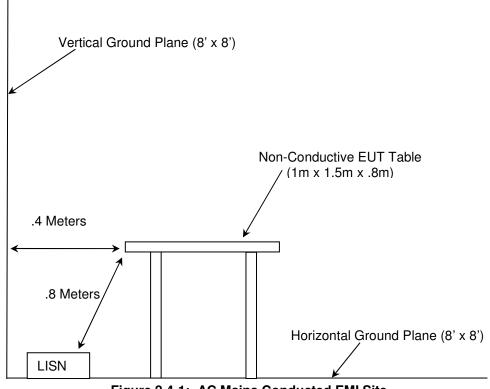


Figure 2.4-1: AC Mains Conducted EMI Site

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, 2012
- US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2012
- 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.

					Last Calibration	Calibration			
AssetID	Manufacturer	Model #	Equipment Type	Serial #	Date	Due Date			
1	Rohde & Schwarz	ESMI - Display	Spectrum Analyzers	833771/007	9/23/2011	9/23/2012			
2	Rohde & Schwarz	ESMI-Receiver	Spectrum Analyzers	839587/003	9/23/2011	9/23/2012			
3	Rohde & Schwarz	ESMI - Display	Spectrum Analyzers	839379/011	5/26/2011	5/26/2013			
4	Rohde & Schwarz	ESMI - Receiver	Spectrum Analyzers	833827/003	5/26/2011	5/26/2013			
40	EMCO	3104	Antennas	3211	2/11/2011	2/11/2013			
73	Agilent	8447D	Amplifiers	2727A05624	9/30/2011	9/30/2012			
78	EMCO	6502	Antennas	9104-2608	1/31/2011	1/31/2013			
152	EMCO	3825/2	LISN	9111-1905	11/2/2010	11/2/2012			
		Chamber EMI							
167	ACS	Cable Set	Cable Set	167	12/21/2011	12/21/2012			
168	Hewlett Packard	11947A	Attenuators	44829	2/1/2012	2/1/2013			
283	Rohde & Schwarz	FSP40	Spectrum Analyzers	1000033	8/26/2011	8/26/2012			
324	ACS	Belden	Cables	8214	7/6/2011	7/6/2012			
412	Electro Metrics	LPA-25	Antennas	1241	7/28/2010	7/28/2012			

Table 4-1: Test Equipment

Model: 5140G

5 SUPPORT EQUIPMENT

Table 5-1:	Support	Equipment
	Support	Equipment

lte	em	Equipment Type	Manufacturer	Model Number	Serial Number
1	1	AC Adaptor - 12VDC 500mA	DVE	DV-1250	NA

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM

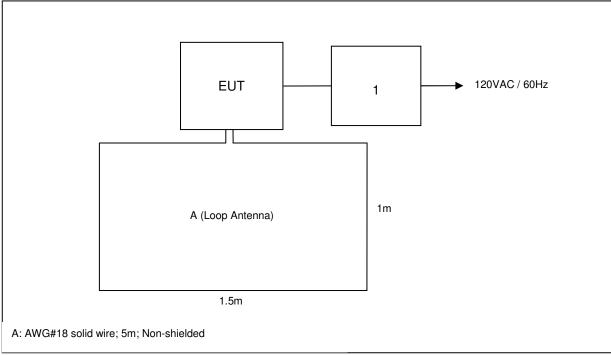


Figure 6-1: Test Setup Block Diagram

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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 antenna is a solid AWG#18 wire loop designed to be buried under ground to create a boundary perimeter.

7.2 Power Line Conducted Emissions – FCC: CFR 47 Part 15.207/ IC: RSS-GEN 7.2.4

7.2.1 Measurement Procedure

ANSI C63.4 sections 6 and 7 were the guiding documents for this evaluation. Conducted emissions were performed from 150kHz to 30MHz with the spectrum analyzer's resolution bandwidth set to 9kHz and the video bandwidth set to 30kHz. The calculation for the conducted emissions is as follows:

Corrected Reading = Analyzer Reading + LISN Loss + Cable Loss Margin = Applicable Limit - Corrected Reading

7.2.2 Measurement Results

Results of the test are shown below in and Tables 7.2.2-1 to 7.2.2-2.

Frequency (MHz)	Level (dBuV)	Transducer (dB)	Limit (dBuV)	Margin (dB)	Line	PE	Detector
0.264000	41.30	10.0	61	20.0	L1	FLO	QP
0.360000	41.60	10.0	59	17.1	L1	FLO	QP
0.438000	40.80	10.0	57	16.3	L1	FLO	QP
0.522000	30.70	10.0	56	25.3	L1	FLO	QP
0.702000	31.00	10.1	56	25.0	L1	FLO	QP
0.780000	29.00	10.1	56	27.0	L1	FLO	QP
0.912000	18.70	10.0	56	37.3	L1	FLO	QP
1.152000	15.90	10.0	56	40.1	L1	FLO	QP
1.236000	12.40	10.0	56	43.6	L1	FLO	QP
27.276000	10.70	9.4	60	49.3	L1	FLO	QP
0.264000	14.60	10.0	51	36.7	L1	FLO	AVG
0.360000	14.50	10.0	49	34.3	L1	FLO	AVG
0.462000	12.90	10.0	47	33.7	L1	FLO	AVG
0.498000	11.20	10.0	46	34.8	L1	FLO	AVG
0.702000	10.00	10.1	46	36.0	L1	FLO	AVG
0.744000	9.90	10.1	46	36.1	L1	FLO	AVG
0.900000	7.90	10.0	46	38.1	L1	FLO	AVG
1.182000	7.50	10.0	46	38.5	L1	FLO	AVG
1.206000	7.50	10.0	46	38.5	L1	FLO	AVG
26.946000	7.50	9.4	50	42.5	L1	FLO	AVG

Table 7.2.2-1: Conducted EMI Results – Line 1

Table 7.2.2-2: Conducted EMI Results – Line 2										
Frequency (MHz)	Level (dBuV)	Transducer (dB)	Limit (dBuV)	Margin (dB)	Line	PE	Detector			
0.252000	39.60	10.0	62	22.1	L2	FLO	QP			
0.360000	38.40	10.0	59	20.3	L2	FLO	QP			
0.486000	27.70	10.0	56	28.5	L2	FLO	QP			
0.588000	25.80	10.0	56	30.2	L2	FLO	QP			
0.774000	18.70	10.1	56	37.3	L2	FLO	QP			
0.972000	11.10	10.0	56	44.9	L2	FLO	QP			
1.104000	11.50	10.0	56	44.5	L2	FLO	QP			
1.428000	10.30	10.0	56	45.7	L2	FLO	QP			
1.500000	10.30	10.0	56	45.7	L2	FLO	QP			
0.264000	13.80	10.0	51	37.5	L2	FLO	AVG			
0.354000	12.90	10.0	49	36.0	L2	FLO	AVG			
0.492000	9.30	10.0	46	36.9	L2	FLO	AVG			
0.594000	9.00	10.0	46	37.0	L2	FLO	AVG			
0.726000	8.80	10.1	46	37.2	L2	FLO	AVG			
0.948000	7.40	10.0	46	38.6	L2	FLO	AVG			
1.044000	7.50	10.0	46	38.5	L2	FLO	AVG			
1.182000	7.30	10.0	46	38.7	L2	FLO	AVG			
1.440000	7.20	10.0	46	38.8	L2	FLO	AVG			
1.530000	7.20	10.0	46	38.8	L2	FLO	AVG			

 Table 7.2.2-2:
 Conducted EMI Results – Line 2

7.3 Radiated Emissions – FCC CFR 47 Part 15.209 / RSS-210 Section 2.5

7.3.1 Measurement Procedure

Section 15.33(a)(4) specifies, if the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to frequency specified in 15.33(b)(1) for unintentional radiators. The upper frequency range measured was 1000MHz.

Measurements below 30MHz were performed in a semi-anechoic chamber with a 3 meter separation distance between the EUT and measurement antenna. The EUT was rotated 360[°] and the loop antenna rotated about the vertical axis to maximize each emission. The magnetic loop receiving antenna was positioned with its center 1 meter above the ground.

The spectrum analyzer's resolution and video bandwidth was set to 200 Hz and 1 kHz respectively for frequencies below 150 kHz and 9 kHz and 30 kHz respectively for frequencies above 150 kHz and below 30 MHz. For measurements in the frequency bands 9-90 kHz and 110-490 kHz, an average detector was used. When average measurements are specified, the peak emissions were also compared to a limit corresponding to 20 dB above the maximum permitted average limit according to Part 15.35. All other emissions were measured using a Quasi-peak detector. The final measurements were then corrected by antenna correction factors and cable loss for comparison to the limits.

Measurements above 30 MHz were performed in a semi-anechoic chamber with a 3 meter separation distance between the EUT and measurement antenna. 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 1000 MHz, quasi-peak measurements were made using a resolution bandwidth (RBW) of 120 kHz and a video bandwidth (VBW) of 300 kHz.

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7.3.2 Distance Correction for Measurements Below 30 MHz – Part 15.31

Radiated measurements were performed at a distance closer than 300m and 30m as required, according to Part 15.209. Therefore a correction factor was applied to account for propagation loss at the specified distance. The propagation loss was determined by using the square of an inverse linear distance extrapolation factor (40dB/decade) according to 15.31. A sample calculation of the distance correction factor is shown below for limits expressed at a 300m measurement distance and a 30m measurement distance.

Distance correction factor (300m Specified Test Distance) = 40*Log (Test Distance/300) = 40*Log (3/300) = - 80 dB

Distance correction factor (30m Specified Test Distance) = 40*Log (Test Distance/30) = 40*Log (3/30) = - 40 dB

7.3.3 Measurement Results

Results of the test are given in Table 7.3.3-1.

Level Antenno Correction Corrected Louis Limit Margin										
Frequency		BuV)	Antenna	Correction		ted Level		imit		argin
(MHz)	(dBdV)		Polarity Factors		(dBuV/m)		(dBuV/m)		(dB)	
(11112)	pk	Qpk/Avg	(H/V)	(dB)	pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
0.00996	78.55	78.32	V	19.80	98.35	98.12	147.6	127.6	49.30	29.50
0.01991	59.02	58.34	V	15.04	74.06	73.38	141.6	121.6	67.50	48.2
0.02986	74.90	74.26	V	14.01	88.91	88.27	138.1	118.1	49.20	29.8
0.03981	58.48	57.15	V	12.63	71.11	69.78	135.6	115.6	64.50	45.8
0.04977	64.95	64.32	V	11.53	76.48	75.85	133.7	113.7	57.20	37.8
0.05971	56.67	55.89	V	11.50	68.17	67.39	132.1	112.1	63.90	44.7
0.06968	75.26	74.05	V	11.11	86.37	85.16	130.7	110.7	44.30	25.6
0.07963	65.27	64.11	V	11.00	76.27	75.11	129.6	109.6	53.30	34.5
0.08961	73.61	73.03	V	11.10	84.71	84.13	128.6	108.6	43.90	24.4
0.09959		58.83	V	10.72		69.55		107.6		38.1
0.10952		62.73	V	10.68		73.41		106.8		33.4
0.11945	60.40	58.58	V	10.66	71.06	69.24	126.1	106.1	55.00	36.8
0.12942	64.03	63.15	V	10.64	74.67	73.79	125.4	105.4	50.70	31.6
0.13938	53.13	51.45	V	10.62	63.75	62.07	124.7	104.7	60.90	42.6
0.14934	55.19	54.16	V	10.60	65.79	64.76	124.1	104.1	58.30	39.4
0.16997	56.91	52.45	V	10.56	67.47	63.01	123.0	103.0	55.50	40.00
0.1901	52.80	47.46	V	10.52	63.32	57.98	122.0	102.0	58.70	44.00
0.22994	53.21	43.22	V	10.50	63.71	53.72	120.4	100.4	56.70	46.70
30		17.16	Н	-12.60		4.56		40.0		35.40
56.67		17.26	Н	-13.37		3.89		40.0		36.10
87.61		18.13	Н	-15.02		3.11		40.0		36.90
115		18.00	Н	-8.60		9.40		43.5		34.10
165.06		17.92	V	-9.49		8.43		43.5		35.10
420.44		18.97	Н	-7.10		11.87		46.0		34.10
615.11		19.73	Н	-3.70		16.03		46.0		30.00
681.78		20.11	Н	-0.64		19.47		46.0		26.50
773.33		20.64	V	-0.2997		20.3403		46.0		25.7
941.33		20.18	Н	1.4532		21.6332		46.0		24.4

7.3.4 Sample Calculation

Example Calculation – Average/Quasi-Peak Limit < 30MHz

Measurement Distance 300m @ 10kHz

Limit (dBuV/m) = 20*Log(2400/F(kHz)) - Distance Correction Factor (Section 7.3.2) Limit (dBuV/m) = 20*Log(2400/10) + 80 Limit (dBuV/m) = 147.6

Example Calculation – Field Strength (See Table 7.3.3-1)

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

Where:

CF_T	=	Total Correction Factor (AF+CA+AG)
Rυ	=	Uncorrected Reading
R _c	=	Corrected Level
AF	=	Antenna Factor
CA	=	Cable Attenuation
AG	=	Amplifier Gain
R _C AF CA		Corrected Level Antenna Factor Cable Attenuation

Peak:

Corrected Level: 78.55 + 19.80 = 98.35dBuV Margin: 147.6dBuV - 98.35dBuV = 49.3 dB

Average:

Corrected Level: 78.32 + 19.80 = 98.12dBuV Margin: 127.6dBuV – 98.12dBuV = 29.5 dB

7.4 20dB / 99% Bandwidth – FCC: Section 15.215, IC: RSS-Gen 4.6.1

7.4.1 Measurement Procedure

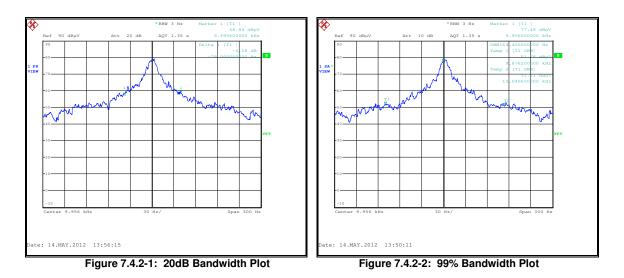
The span of the spectrum analyzer display was set between two times and five times the occupied bandwidth (OBW) of the emission. The RBW of the spectrum analyzer was set to approximately 1 % to 5 % of the OBW. The trace was set to max hold with a peak detector active. The Delta function of the analyzer was utilized to determine the 20 dB bandwidth of the emission.

The occupied bandwidth measurement function of the analyzer was used for the 99% bandwidth. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. A sampling detector was used.

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: 20dB / 99% Bandwidth							
Frequency 20dB Bandwidth 99% Bandwidth [kHz] [Hz] [Hz]							
10	78.0	164.4					



8 CONCLUSION

In the opinion of ACS, Inc., the 5140G, manufactured by Woodstream Corporation meet the requirements of FCC Part 15 subpart C and Industry Canada's Radio Standards Specification RSS-210.

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END REPORT