

## **Certification Test Report**

**FCC ID: SM6-HOTRODV2PL**  
**IC: 9235A-HOTRODV2PL**

**FCC Rule Part: 15.249**  
**IC Radio Standards Specification: RSS-210**

**ACS Report Number: 12-0415.W04.1A**

Manufacturer: Mueller Systems  
Model: AHRPL-DL

Test Begin Date: October 4, 2012  
Test End Date: October 5, 2012

Report Issue Date: October 16, 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.

A handwritten signature in black ink, appearing to read "Kirby Munroe".

Reviewed by:  
**Kirby Munroe**  
Director, Wireless Certifications  
ACS, Inc.

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**This report contains 12 pages**

## TABLE OF CONTENTS

|          |  |           |
|----------|--|-----------|
| <b>1</b> | <b>GENERAL .....</b>   | <b>3</b>  |
| 1.1      | PURPOSE.....   | 3         |
| 1.2      | PRODUCT DESCRIPTION .....  | 3         |
| 1.3      | TEST METHODOLOGY AND CONSIDERATIONS .....  | 3         |
| <b>2</b> | <b>TEST FACILITIES.....</b>  | <b>4</b>  |
| 2.1      | LOCATION .....   | 4         |
| 2.2      | LABORATORY ACCREDITATIONS/RECOGNITIONS/CERTIFICATIONS .....                            | 4         |
| 2.3      | RADIATED EMISSIONS TEST SITE DESCRIPTION .....   | 5         |
| 2.3.1    | <i>Semi-Anechoic Chamber Test Site .....</i>   | 5         |
| 2.3.2    | <i>Open Area Tests Site (OATS) .....</i>   | 6         |
| 2.4      | CONDUCTED EMISSIONS TEST SITE DESCRIPTION .....  | 7         |
| <b>3</b> | <b>APPLICABLE STANDARD REFERENCES.....</b>   | <b>7</b>  |
| <b>4</b> | <b>LIST OF TEST EQUIPMENT.....</b>   | <b>8</b>  |
| <b>5</b> | <b>SUPPORT EQUIPMENT .....</b>   | <b>9</b>  |
| <b>6</b> | <b>EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM .....</b>                                  | <b>9</b>  |
| <b>7</b> | <b>SUMMARY OF TESTS .....</b>  | <b>10</b> |
| 7.1      | ANTENNA REQUIREMENT – FCC: SECTION 15.203 .....  | 10        |
| 7.2      | POWER LINE CONDUCTED EMISSIONS – FCC: SECTION 15.207 IC: RSS-GEN 7.2.4.....            | 10        |
| 7.2.1    | <i>Measurement Procedure.....</i>  | 10        |
| 7.3      | FUNDAMENTAL FIELD STRENGTH – FCC: SECTION 15.249(A) IC: RSS-210 A2.9(A) .....          | 10        |
| 7.3.1    | <i>Measurement Procedure.....</i>  | 10        |
| 7.3.2    | <i>Measurement Results.....</i>  | 10        |
| 7.4      | RADIATED SPURIOUS EMISSIONS - FCC: SECTION 15.249(A)(D)(E); IC:RSS-210 A2.9(A)(B)..... | 11        |
| 7.4.1    | <i>Measurement Procedure.....</i>  | 11        |
| 7.4.2    | <i>Duty Cycle Correction.....</i>  | 11        |
| 7.4.3    | <i>Measurement Results.....</i>  | 11        |
| 7.4.4    | <i>Sample Calculation: .....</i>   | 12        |
| <b>8</b> | <b>CONCLUSION.....</b>   | <b>12</b> |

## 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 for a Class II Permissive Change.

The purpose of this permissive change is to address component value and tolerance changes in the RF circuitry.

### 1.2 Product description

The AHRPL-DL remote meter reading transmitter was designed to allow the utility to receive data from any Mueller water meter equipped with a Translator register. The transmitter collects data from the register and transmits it via radio frequency (RF) to be collected by a mobile receiver. The AHRPL-DL medium power unit is designed for use with the specific meter pit and meter lid described in this report.

Band of operation: 905 – 925 MHz  
Modulation format: GFSK  
Antenna Type/Gain: 1/4 wavelength whip; -0.5dBi  
Operating Voltage: 3.6VDC (Battery)

Manufacturer Information:  
Mueller Systems  
1200 Abernathy Road, NE Suite 1200  
Atlanta, GA 30328

Test Sample Serial Number(s): 1295

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 tested in an orientation representative of typical installation. The EUT is intended for meter pit installation at or below ground level. Testing was performed as typically installed in meter pits described in sections 5.0 – 6.0 (i.e. cast iron pit / composite lid). A 4'x4'x4' dirt filled wooden test fixture (box) was used to simulate typically in-ground in use. The EUT is battery powered therefore AC power line conducted emissions was not performed.

Power setting used for testing: 4

## **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: 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 x 101 x 19mm 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:

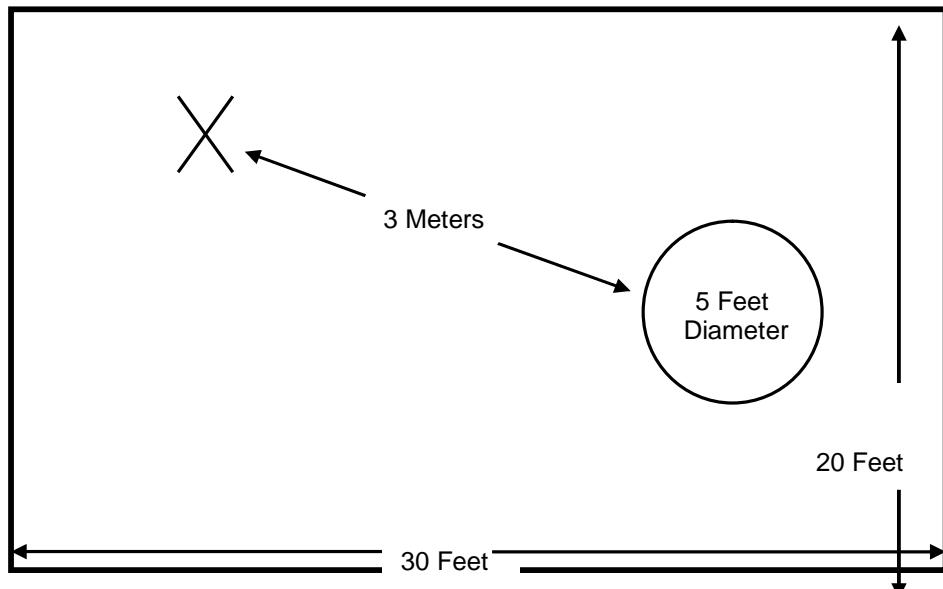


Figure 2.3-1: Semi-Anechoic Chamber Test Site

### 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 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:

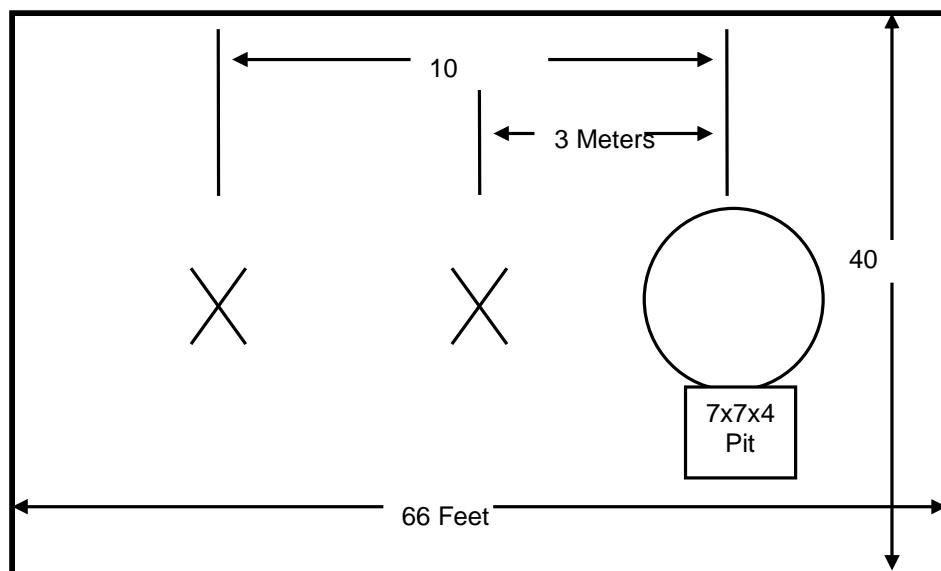


Figure 2.3-2: Open Area Test Site

## 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 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:

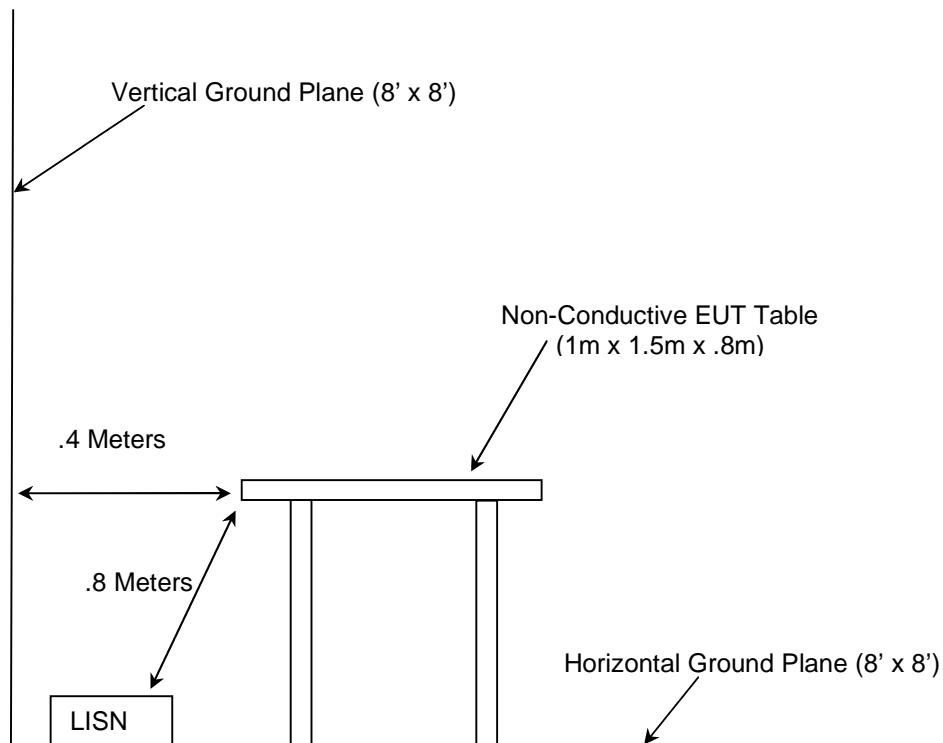


Figure 2.4-1: AC Mains Conducted EMI Site

## 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, 2011
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2011
- ❖ Industry Canada Radio Standards Specification: RSS-210 - Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Issue 8, December 2010
- ❖ Industry Canada Radio Standards Specification: RSS-GEN – General Requirements and Information for the Certification of Radiocommunication Equipment, Issue 3, December 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.

**Table 4-1: Test Equipment**

| AssetID | Manufacturer       | Model #           | Equipment Type     | Serial #   | Last Calibration Date | Calibration Due Date |
|---------|--------------------|-------------------|--------------------|------------|-----------------------|----------------------|
| 22      | Agilent            | 8449B             | Amplifiers         | 3008A00526 | 8/2/2012              | 8/2/2013             |
| 40      | EMCO               | 3104              | Antennas           | 3211       | 2/11/2011             | 2/11/2013            |
| 193     | ACS                | OATS cable Set    | Cable Set          | 193        | 7/3/2012              | 1/3/2013             |
| 211     | Eagle              | C7RFM3NFM         | Filters            | HLC-700    | 12/1/2011             | 12/1/2012            |
| 213     | TEC                | PA 102            | Amplifiers         | 44927      | 8/21/2012             | 8/21/2013            |
| 277     | Emco               | 93146             | Antennas           | 9904-5199  | 8/24/2012             | 8/24/2014            |
| 283     | Rohde & Schwarz    | FSP40             | Spectrum Analyzers | 1000033    | 8/1/2012              | 8/1/2013             |
| 329     | A.H.Systems        | SAS-571           | Antennas           | 721        | 6/24/2011             | 6/24/2013            |
| 337     | Microwave Circuits | H1G513G1          | Filters            | 282706     | 7/2/2012              | 7/2/2013             |
|         |                    | SMRE-200W-12.0    |                    |            |                       |                      |
| 343     | Florida RF Cables  | SMRE              | Cables             | N/A        | 4/2/2012              | 4/2/2013             |
| 430     | RF Cables          | SMS-290AW-480-SMS | Cables             | N/A        | 4/2/2012              | 4/2/2013             |
| 430     | RF Cables          | SMS-290AW-480-SMS | Cables             | N/A        | 4/2/2012              | 4/2/2013             |
| 486     | Hewlett Packard    | 8591E             | Analyzers          | 3543A04709 | 6/20/2012             | 6/20/2013            |

## 5 SUPPORT EQUIPMENT

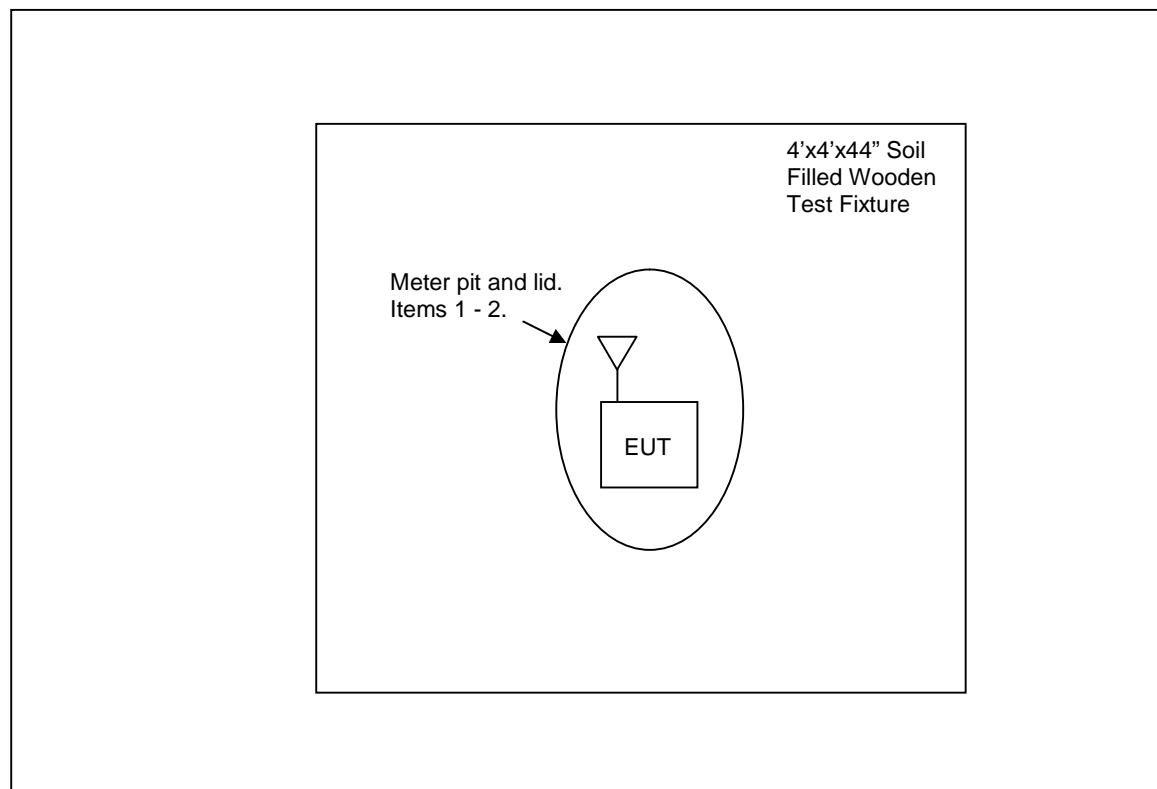
**Table 5-1: Support Equipment**

| Item | Equipment Type        | Manufacturer | Model Number       | Serial Number |
|------|-----------------------|--------------|--------------------|---------------|
| 1    | Meter Pit (Cast Iron) | Mueller      | H-1462 Stretch Box | N/A           |
| 2    | Meter Lid (Composite) | Mueller      | N/A                | N/A           |

Additional lid specifications provided by manufacturer:

The water meter pit composite lids/covers are constructed of high-impact fiber reinforced engineered polymer materials or thermoplastic advanced composites. The minimum lid thickness is 0.13 inches. The polymer/composite lids shall be capable of withstanding a temperature range from -40°F to +190°F and shall be resistant to ultraviolet light degradation.

## 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 AHRPL-DL utilizes a quarter wavelength whip antenna with a gain of -0.5dBi soldered directly to the PCB board thus satisfying the unique antenna coupling specified in Part 15.203.

### 7.2 Power Line Conducted Emissions – FCC: Section 15.207 IC: RSS-Gen 7.2.4

#### 7.2.1 Measurement Procedure

The EUT is a battery operated device therefore AC power line conducted emissions is not applicable.

### 7.3 Fundamental Field Strength – FCC: Section 15.249(a) IC: RSS-210 A2.9(a)

#### 7.3.1 Measurement Procedure

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 fundamentals below 1GHz, quasi-peak measurements were made using a resolution bandwidth (RBW) >> emission bandwidth (EBW). Measurements were made using a resolution bandwidth of 120 kHz and a video bandwidth (VBW) of 300 kHz. For fundamentals above 1GHz, peak and average measurements were made using a resolution bandwidth (RBW) of 1 MHz and a video bandwidth (VBW) of 3 MHz.

#### 7.3.2 Measurement Results

Results are shown below in Table 7.3.2-1.

**Table 7.3.2-1: Fundamental Field Strength**

| Frequency<br>(MHz) | Level<br>(dBuV) |         | Antenna<br>Polarity<br>(H/V) | Correction<br>Factors<br>(dB) | Corrected Level<br>(dBuV/m) |         | Limit<br>(dBuV/m) |         | Margin<br>(dB) |         |
|--------------------|-----------------|---------|------------------------------|-------------------------------|-----------------------------|---------|-------------------|---------|----------------|---------|
|                    | pk              | Qpk/Avg |                              |                               | pk                          | Qpk/Avg | pk                | Qpk/Avg | pk             | Qpk/Avg |
| 905                | -----           | 83.20   | H                            | 3.45                          | -----                       | 86.65   | -----             | 94.0    | -----          | 7.3     |
| 905                | -----           | 85.90   | V                            | 3.45                          | -----                       | 89.35   | -----             | 94.0    | -----          | 4.6     |
| 915                | -----           | 84.70   | H                            | 4.15                          | -----                       | 88.85   | -----             | 94.0    | -----          | 5.1     |
| 915                | -----           | 84.90   | V                            | 4.15                          | -----                       | 89.05   | -----             | 94.0    | -----          | 4.9     |
| 925                | -----           | 83.10   | H                            | 5.10                          | -----                       | 88.20   | -----             | 94.0    | -----          | 5.8     |
| 925                | -----           | 85.20   | V                            | 5.10                          | -----                       | 90.30   | -----             | 94.0    | -----          | 3.7     |

## 7.4 Radiated Spurious Emissions - FCC: Section 15.249(a)(d)(e); IC:RSS-210 A2.9(a)(b)

### 7.4.1 Measurement Procedure

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

All out of band emissions were evaluated, including any emissions at or near the band-edge.

### 7.4.2 Duty Cycle Correction

For average radiated measurements, using a 10% duty cycle, the measured level was reduced by a factor 20dB. The duty cycle correction factor is determined using the formula:  $20\log(10/100) = -20\text{dB}$ .

An analysis of the duty cycle timing is provided in the Theory of Operation accompanying the original certification.

### 7.4.3 Measurement Results

Radiated spurious emissions found in the band of 30MHz to 10GHz are reported in the tables 7.4.3-1 to 7.4.3-3 below.

**Table 7.4.3-1: Radiated Spurious Emissions Tabulated Data – 905MHz**

| Frequency (MHz) | Level (dBuV) |         | Antenna Polarity (H/V) | Correction Factors (dB) | Corrected Level (dBuV/m) |         | Limit (dBuV/m) |         | Margin (dB) |         |
|-----------------|--------------|---------|------------------------|-------------------------|--------------------------|---------|----------------|---------|-------------|---------|
|                 | pk           | Qpk/Avg |                        |                         | pk                       | Qpk/Avg | pk             | Qpk/Avg | pk          | Qpk/Avg |
| 1810            | 62.17        | 62.17   | H                      | -2.11                   | 60.06                    | 40.06   | 74.0           | 54.0    | 13.9        | 13.9    |
| 1810            | 62.90        | 62.90   | V                      | -2.11                   | 60.79                    | 40.79   | 74.0           | 54.0    | 13.2        | 13.2    |
| 2715            | 66.73        | 66.73   | H                      | 1.55                    | 68.28                    | 48.28   | 74.0           | 54.0    | 5.7         | 5.7     |
| 2715            | 68.73        | 68.73   | V                      | 1.55                    | 70.28                    | 50.28   | 74.0           | 54.0    | 3.7         | 3.7     |
| 3620            | 57.72        | 57.72   | H                      | 3.30                    | 61.02                    | 41.02   | 74.0           | 54.0    | 13.0        | 13.0    |
| 3620            | 60.73        | 60.73   | V                      | 3.30                    | 64.03                    | 44.03   | 74.0           | 54.0    | 10.0        | 10.0    |
| 5430            | 48.12        | 48.12   | H                      | 7.69                    | 55.81                    | 35.81   | 74.0           | 54.0    | 18.20       | 18.20   |
| 5430            | 53.29        | 53.29   | V                      | 7.69                    | 60.98                    | 40.98   | 74.0           | 54.0    | 13.00       | 13.00   |

**Table 7.4.3-2: Radiated Spurious Emissions Tabulated Data – 915MHz**

| Frequency (MHz) | Level (dBuV) |         | Antenna Polarity (H/V) | Correction Factors (dB) | Corrected Level (dBuV/m) |         | Limit (dBuV/m) |         | Margin (dB) |         |
|-----------------|--------------|---------|------------------------|-------------------------|--------------------------|---------|----------------|---------|-------------|---------|
|                 | pk           | Qpk/Avg |                        |                         | pk                       | Qpk/Avg | pk             | Qpk/Avg | pk          | Qpk/Avg |
| 1830            | 62.96        | 62.96   | H                      | -1.95                   | 61.01                    | 41.01   | 74.0           | 54.0    | 13.0        | 13.0    |
| 1830            | 62.67        | 62.67   | V                      | -1.95                   | 60.72                    | 40.72   | 74.0           | 54.0    | 13.3        | 13.3    |
| 2745            | 62.83        | 62.83   | H                      | 1.63                    | 64.46                    | 44.46   | 74.0           | 54.0    | 9.5         | 9.5     |
| 2745            | 65.64        | 65.64   | V                      | 1.63                    | 67.27                    | 47.27   | 74.0           | 54.0    | 6.7         | 6.7     |
| 3660            | 56.00        | 56.00   | H                      | 3.49                    | 59.49                    | 39.49   | 74.0           | 54.0    | 14.5        | 14.5    |
| 3660            | 60.85        | 60.85   | V                      | 3.49                    | 64.34                    | 44.34   | 74.0           | 54.0    | 9.7         | 9.7     |
| 5490            | 50.07        | 50.07   | H                      | 7.70                    | 57.77                    | 37.77   | 74.0           | 54.0    | 16.20       | 16.20   |
| 5490            | 53.64        | 53.64   | V                      | 7.70                    | 61.34                    | 41.34   | 74.0           | 54.0    | 12.70       | 12.70   |

**Table 7.4.3-3: Radiated Spurious Emissions Tabulated Data – 925MHz**

| Frequency<br>(MHz) | Level<br>(dBuV) |         | Antenna<br>Polarity<br>(H/V) | Correction<br>Factors<br>(dB) | Corrected Level<br>(dBuV/m) |         | Limit<br>(dBuV/m) |         | Margin<br>(dB) |         |
|--------------------|-----------------|---------|------------------------------|-------------------------------|-----------------------------|---------|-------------------|---------|----------------|---------|
|                    | pk              | Qpk/Avg |                              |                               | pk                          | Qpk/Avg | pk                | Qpk/Avg | pk             | Qpk/Avg |
| 1850               | 60.94           | 60.94   | H                            | -1.79                         | 59.15                       | 39.15   | 74.0              | 54.0    | 14.9           | 14.9    |
| 1850               | 61.79           | 61.79   | V                            | -1.79                         | 60.00                       | 40.00   | 74.0              | 54.0    | 14.0           | 14.0    |
| 2775               | 63.03           | 63.03   | H                            | 1.71                          | 64.74                       | 44.74   | 74.0              | 54.0    | 9.3            | 9.3     |
| 2775               | 63.21           | 63.21   | V                            | 1.71                          | 64.92                       | 44.92   | 74.0              | 54.0    | 9.1            | 9.1     |
| 3700               | 56.34           | 56.34   | H                            | 3.69                          | 60.03                       | 40.03   | 74.0              | 54.0    | 14.0           | 14.0    |
| 3700               | 57.93           | 57.93   | V                            | 3.69                          | 61.62                       | 41.62   | 74.0              | 54.0    | 12.4           | 12.4    |
| 5550               | 52.19           | 52.19   | V                            | 7.77                          | 59.96                       | 39.96   | 74.0              | 54.0    | 14.00          | 14.00   |

**7.4.4 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:  $62.17 - 2.11 = 60.06$  dBuV

Margin:  $74$  dBuV –  $60.06$  dBuV =  $13.9$  dB

**Example Calculation: Average**

Corrected Level:  $62.17 - 2.11 - 20 = 40.06$  dBuV

Margin:  $54$  dBuV –  $40.06$  dBuV =  $13.9$  dB

## 8 CONCLUSION

In the opinion of ACS, Inc. the AHRPL-DL, manufactured by Mueller Systems meets the requirements of FCC Part 15 subpart C and Industry Canada's Radio Standards Specification RSS-210 as applicable to the class II permissive change.

## END REPORT