



Engineering Solutions & Electromagnetic Compatibility Services

**Certification Application Report  
FCC Part 15.247 & Industry Canada RSS-247**

<b>Test Lab:</b> Rhein Tech Laboratories, Inc. 360 Herndon Parkway Suite 1400 Herndon, VA 20170 E-Mail: atcbinfo@rheintech.com		<b>Applicant:</b> Alarm.com 8150 Leesburg Pike Suite 1400 Vienna, VA 22182	
Tel: 703-689-0368 Fax: 703-689-2056 www.rheintech.com		Tel: 703-584-7319	
<b>FCC ID IC</b>	YL6-143UB100AT 9111A-143UB100AT	<b>Test Report Date</b>	October 16, 2015
<b>Platform</b>	N/A	<b>RTL Work Order #</b>	2015182
<b>Model</b>	ADC-UB-100-AT	<b>RTL Quote #</b>	QRTL15-182A
<b>American National Standard Institute</b>	ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices		
<b>FCC Classification</b>	DTS – Digital Transmission System		
<b>FCC Rule Part(s)/Guidance</b>	FCC Rules Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz Direct Sequence System (10/01/2014)		
<b>Industry Canada</b>	RSS-247 Issue 1 Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices		
<b>Digital Interface Information</b>	Digital Interface was found to be compliant		
<b>Frequency Range (MHz)</b>	<b>Output Power (W)*</b>	<b>Frequency Tolerance</b>	<b>Emission Designator</b>
912 - 924	0.009	N/A	705KF1D

\* power is peak conducted

I, the undersigned, hereby declare that the equipment tested and referenced in this report conforms to the identified standard(s) as described in this test report. No modifications were made to the equipment during testing in order to achieve compliance with these standards. Furthermore, there was no deviation from, additions to, or exclusions from, the applicable parts of FCC Part 2, FCC Part 15, Industry Canada RSS-247, RSS-Gen, and ANSI C63.10.

Signature: 

Date: October 16, 2015

Typed/Printed Name: Desmond A. Fraser

Position: President

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*These test(s) are accredited under Rhein Tech Laboratories, Inc. ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1445.*

## Table of Contents

---

1	General Information .....	5
1.1	Scope .....	5
1.2	Description of EUT .....	5
1.3	Test Facility .....	5
1.4	Related Submittal(s)/Grant(s) .....	5
1.5	Modifications .....	5
2	Test Information .....	6
2.1	Description of Test Modes .....	6
2.2	Exercising the EUT .....	6
2.3	Test Result Summary .....	6
2.4	Test System Details .....	7
2.5	Configuration of Tested System .....	7
3	Peak Output Power - 15.247(b)(3); IC RSS-247 5.4(4), RSS-Gen 6.12 .....	8
3.1	Power Output Test Procedure .....	8
3.2	Peak Output Power Test Data .....	8
4	Peak Power Spectral Density – FCC 15.247(e); IC RSS-247 5.2(2) .....	9
4.1	Peak Spectral Density Test Procedure .....	9
4.2	Peak Spectral Density Test Data .....	9
5	Antenna Conducted Spurious Emissions – FCC 15.247(d), RSS-247 5.5 .....	13
5.1	Antenna Conducted Spurious Emissions Test Procedure .....	13
5.2	Peak Output Power Test Data .....	13
6	Compliance with the Band Edge – FCC 15.247(d); RSS-247 5.5 .....	16
6.1	Band Edge Test Procedure .....	16
6.2	Band Edge Test Results .....	17
6.2.1	Lower Band Edge – Plot .....	17
6.2.2	Upper Band Edge .....	18
7	Bandwidth – FCC 15.247(a)(2); RSS-247 5.2(1) .....	19
7.1	6 dB Bandwidth Test Procedure .....	19
7.2	Bandwidth Test Results .....	19
8	Radiated Emissions - 15.209; RSS-247 2.2; RSS-Gen 6.13/7.1 .....	23
8.1	Limits of Radiated Emissions Measurement .....	23
8.2	Radiated Emissions Measurement Test Procedure .....	23
8.3	Radiated Emissions Test Results .....	25
8.3.1	Unintentional Radiated Emissions Test Data .....	25
8.3.2	Spurious/Harmonics Radiated Emissions Test Data .....	25
9	AC Conducted Emissions - FCC 15.207; RSS-Gen 7.2.4: Conducted Limits .....	27
9.1	Site and Test Description .....	27
9.2	Test Limits .....	27
9.3	Conducted Emissions Test Data .....	28
10	Conclusion .....	30

**Figure Index**

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Figure 2-1:	Configuration of System Under Test .....	8
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**Table Index**

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Table 2-1:	Channels Tested .....	6
Table 2-2:	Test Result Summary – FCC Part 15 Subpart C (Section 15.247) & IC.....	6
Table 2-3:	Equipment Under Test .....	7
Table 3-1:	Power Output Test Equipment .....	8
Table 3-2:	Peak Output Power Test Data .....	8
Table 4-1:	Power Output Test Equipment .....	9
Table 4-2:	Peak Spectral Density Test Data .....	9
Table 5-1:	Antenna Conducted Spurious Emissions Test Equipment .....	13
Table 6-1:	Band Edge Test Equipment .....	16
Table 7-1:	6 dB Bandwidth Test Equipment.....	19
Table 7-2:	6 dB Bandwidth Test Data .....	19
Table 8-1:	Radiated Emissions Test Equipment .....	24
Table 8-2:	Digital Radiated Emissions Test Data.....	25
Table 8-3:	Radiated Emissions Spurious/Harmonics – 912 MHz .....	25
Table 8-4:	Radiated Emissions Spurious/Harmonics - 918 MHz .....	26
Table 8-5:	Radiated Emissions Spurious/Harmonics - 924 MHz .....	26
Table 9-1:	Conducted Emissions Test Equipment .....	27

**Plot Index**

---

Plot 4-1:	Peak Spectral Density – 912 MHz .....	10
Plot 4-2:	Peak Spectral Density – 918 MHz .....	11
Plot 4-3:	Peak Spectral Density – 924 MHz .....	12
Plot 5-1:	Antenna Conducted Spurious Emissions – 912 MHz .....	13
Plot 5-2:	Antenna Conducted Spurious Emissions – 918 MHz .....	14
Plot 5-3:	Antenna Conducted Spurious Emissions – 924 MHz .....	15
Plot 6-1:	Lower Band Edge.....	17
Plot 6-2:	Upper Band Edge.....	18
Plot 7-1:	6 dB Bandwidth – 912 MHz.....	20
Plot 7-2:	6 dB Bandwidth – 918 MHz.....	21
Plot 7-3:	6 dB Bandwidth – 924 MHz.....	22
Plot 9-1:	Conducted Emissions Transmit - Neutral Side – Receive Mode .....	28
Plot 9-2:	Conducted Emissions Transmit - Phase Side – Receive Mode .....	28
Plot 9-3:	Conducted Emissions Transmit - Neutral Side – Transmitting .....	29
Plot 9-4:	Conducted Emissions Transmit - Phase Side – Transmitting.....	29

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### Appendix Index

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Appendix A:	FCC Part 1.1307, 1.1310, 2.1091, 2.1093; IC RSS-102: RF Exposure.....	31
Appendix B:	ACB Agency Authorization Letter.....	32
Appendix C:	FCC Confidentiality Request Letter.....	33
Appendix D:	IC Letters.....	34
Appendix E:	IC Confidentiality Request.....	35
Appendix F:	Canadian-Based Representative Attestation .....	36
Appendix G:	Label and Label Location .....	37
Appendix H:	Technical Operational Description .....	38
Appendix I:	Schematics.....	39
Appendix J:	Block Diagram .....	40
Appendix K:	Manual.....	41
Appendix L:	Test Photographs .....	42
Appendix M:	External Photographs.....	48
Appendix N:	Internal Photographs .....	52

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### Photograph Index

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Photograph 1:	ID Label Location .....	37
Photograph 2:	Radiated Emissions Testing – Front View (Digital Emissions, <1 GHz) .....	42
Photograph 3:	Radiated Emissions Testing – Back View (Digital Emissions, <1 GHz) .....	43
Photograph 4:	Radiated Emissions Testing – (Spurious Emissions, >1 GHz) .....	44
Photograph 5:	Radiated Emissions Testing – (Spurious Emissions, >1 GHz) .....	45
Photograph 6:	Conducted Emissions Testing – Front View .....	46
Photograph 7:	Conducted Emissions Testing – Back View.....	47
Photograph 8:	Front .....	48
Photograph 9:	Back.....	49
Photograph 10:	Top .....	50
Photograph 11:	Bottom .....	50
Photograph 12:	Left.....	51
Photograph 13:	Right .....	51
Photograph 14:	Inside Casing – Batteries in Place .....	52
Photograph 15:	Inside Casing.....	53
Photograph 16:	PCB – Top.....	54
Photograph 17:	PCB - Bottom .....	55

## 1 General Information

### 1.1 Scope

This is an original FCC and Industry Canada certification application request.

### 1.2 Description of EUT

<b>Equipment Under Test</b>	Multisensor Transceiver
<b>Model</b>	ADC-UB-100-AT
<b>Power Supply</b>	Battery or USB powered
<b>Modulation Type</b>	FSK
<b>Frequency Range</b>	912-924 MHz
<b>Antenna Type</b>	Helical

### 1.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located at 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. This site has been fully described in a report and approved by the Federal Communications Commission to perform AC line conducted and radiated emissions testing.

### 1.4 Related Submittal(s)/Grant(s)

This is an original application for Alarm.com Model ADC-UB-100-AT, FCC ID: YL6-143UB100AT, IC: 9111A-143UB100AT.

### 1.5 Modifications

No modifications were made to the equipment during testing in order to achieve compliance with these standards.

## 2 Test Information

### 2.1 Description of Test Modes

In accordance with FCC 15.31(m), and because the EUT utilizes an operating band greater than 10 MHz, the following frequencies were tested:

**Table 2-1: Channels Tested**

Channel	Frequency
Low	912
Middle	918
High	924

### 2.2 Exercising the EUT

The EUT was supplied with test firmware programmed with a high, mid, and low channel for testing. The EUT was tested in all three orthogonal planes in order to determine worst-case emissions. The EUT was provided with software to continuously transmit during testing. The carrier was also checked to verify that information was being transmitted. There were no deviations from the test standard(s) and/or methods. The test results reported relate only to the item tested.

### 2.3 Test Result Summary

**Table 2-2: Test Result Summary – FCC Part 15 Subpart C (Section 15.247) & IC**

Test	FCC Reference	IC Reference	Result
AC Power Conducted Emissions	FCC 15.207	IC RSS-Gen 8.8	Pass
Radiated Emissions	FCC 15.209	IC RSS-247 5.5; IC RSS-Gen 6.13/7.1	Pass
Maximum Peak Power Output	FCC 15.247(b)(3)	IC RSS-247 5.4(4), IC RSS-Gen 6.12	Pass
Peak Power Spectral Density	FCC 15.247(e)	IC RSS-247 A8.1(b)	Pass
Antenna Conducted Spurious Emissions	FCC 15.247(d)	IC RSS-247 5.5, IC RSS-Gen 6.13	Pass
Band Edge Measurement	FCC 15.247(d)	IC RSS-247 5.5	Pass
Bandwidth	FCC 15.247(a)(2)	IC RSS-247 A8.1(a)(b)(d)	Pass

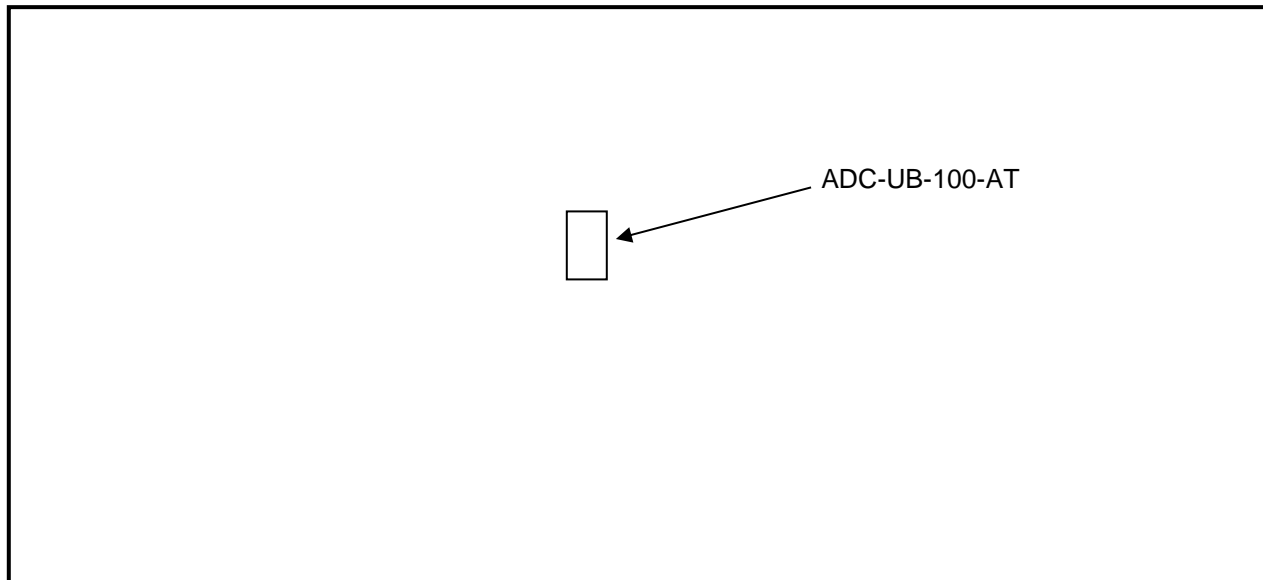
## 2.4 Test System Details

The test samples were received on September 23, 2015. The FCC identifiers for all applicable equipment, plus descriptions of all cables used in the tested system, are identified in the following table.

**Table 2-3: Equipment Under Test**

Part	Manufacturer	Model	Serial Number	FCC ID	Cable Description	RTL Bar Code
Transceiver (conducted port)	Alarm.com	ADC-UB-100-AT	502710-000	YL6-143UB100AT	N/A	21840
Transceiver	Alarm.com	ADC-UB-100-AT	502710-000	YL6-143UB100AT	N/A	21841
USB/Power Cable (36-in)	StarTech.com	USB	N/A	N/A	Shielded	21896
AC Adapter	PowerGen	H LPG-001-12W	N/A	DoC	N/A	21897

## 2.5 Configuration of Tested System



**Figure 2-1: Configuration of System Under Test**

**3 Peak Output Power - 15.247(b)(3); IC RSS-247 5.4(4), RSS-Gen 6.12**

**3.1 Power Output Test Procedure**

A PCB mounted U.FL connector provided a port for measurement using the automated channel power measurement on the spectrum analyzer, for the low, mid, and high channels.

**Table 3-1: Power Output Test Equipment**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901583	Agilent	EXA N9010A	Spectrum Analyzer	MY51250846	4/21/17

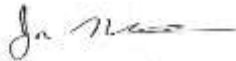
**3.2 Peak Output Power Test Data**

**Table 3-2: Peak Output Power Test Data**

Emission Frequency (MHz)	Peak Detector (dBm)	Peak Detector (W)
912	9.3	0.009
918	9.1	0.008
924	9.1	0.008

Measurement uncertainties shown for these tests are expanded Gaussian uncertainties expressed at 95% confidence level using a coverage factor  $k = 1.96$ . Measurement uncertainty = 0.5 dB.

**Test Personnel:**

Jon Wilson Test Engineer	 Signature	October 9, 2015 Date of Test
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#### 4 Peak Power Spectral Density – FCC 15.247(e); IC RSS-247 5.2(2)

##### 4.1 Peak Spectral Density Test Procedure

Digitally modulated systems shall have conducted peak power spectral density of 8 dBm in any 3 kHz band during any time interval of continuous transmission.

**Table 4-1: Power Output Test Equipment**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901583	Agilent	EXA N9010A	Spectrum Analyzer	MY51250846	4/21/17

##### 4.2 Peak Spectral Density Test Data

**Table 4-2: Peak Spectral Density Test Data**

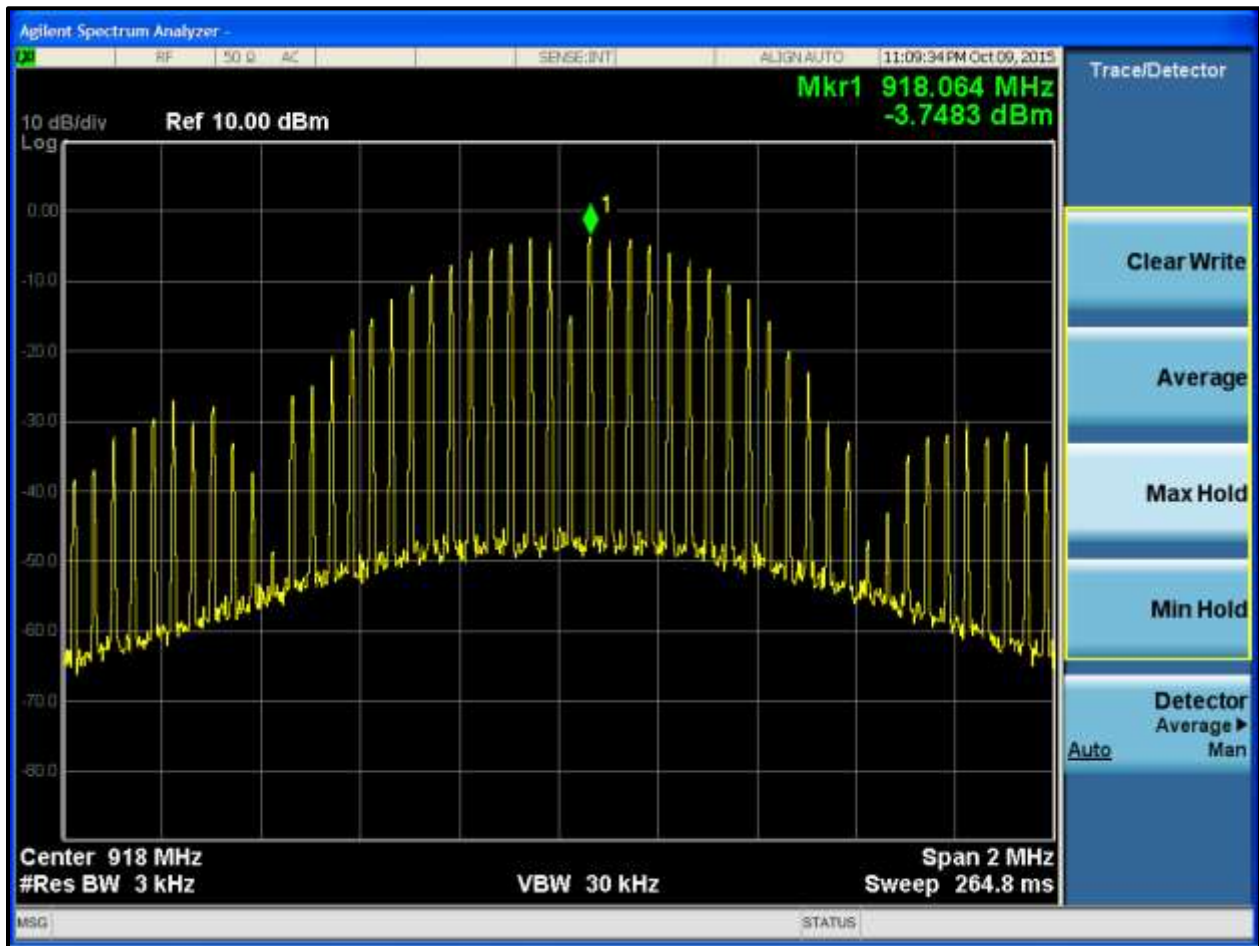
Channels	Frequency (MHz)	Peak Output Power (dBm)
Low	912	-3.9
Mid	918	-3.7
High	924	-3.4

Measurement uncertainties shown for these tests are expanded Gaussian uncertainties expressed at 95% confidence level using a coverage factor  $k = 1.96$ . Measurement uncertainty = 0.5 dB.

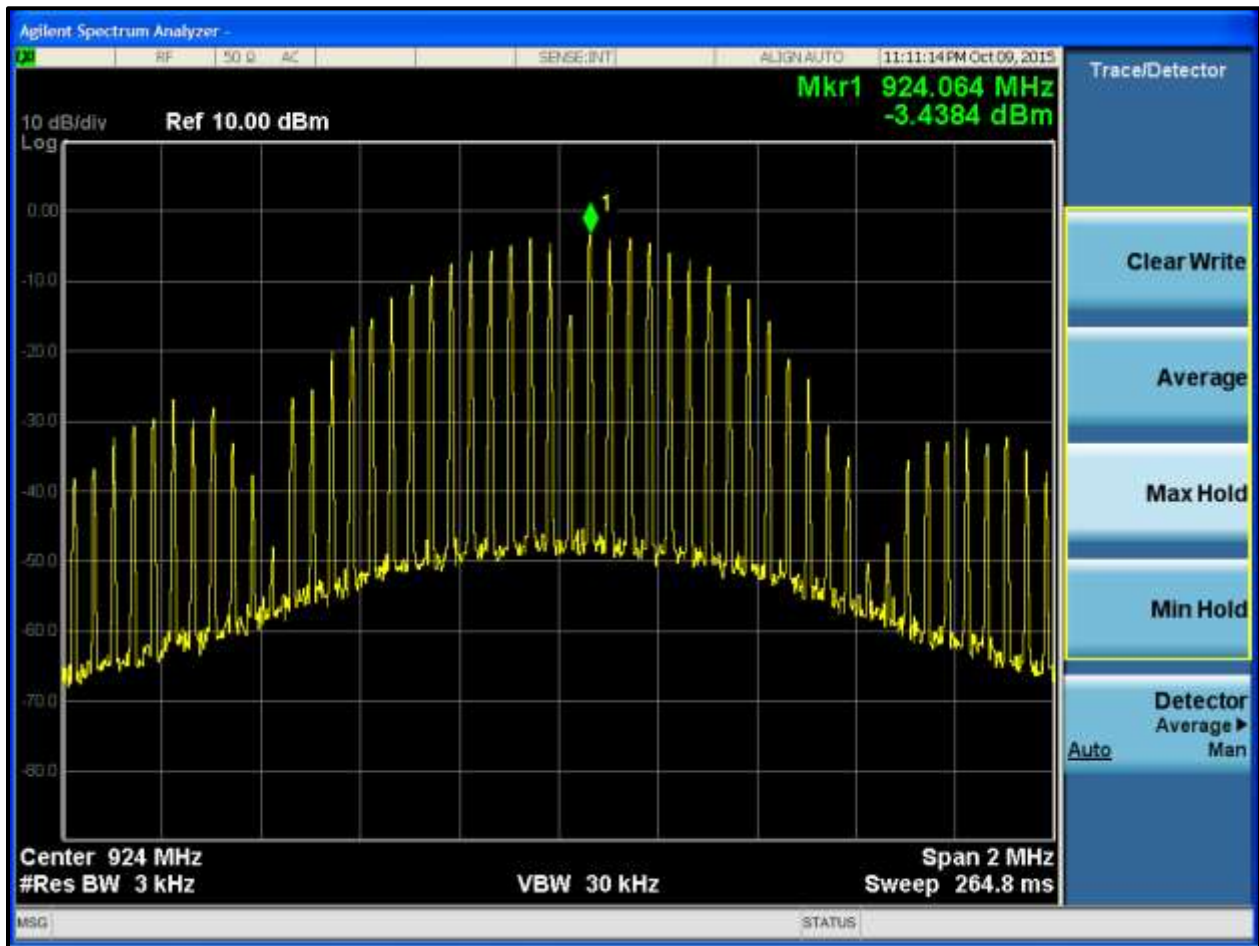
Plot 4-1: Peak Spectral Density – 912 MHz



**Plot 4-2: Peak Spectral Density – 918 MHz**



**Plot 4-3: Peak Spectral Density – 924 MHz**



**Test Personnel:**

Jon Wilson  
Test Engineer

Signature

October 9, 2015  
Date of Test

## 5 Antenna Conducted Spurious Emissions – FCC 15.247(d), RSS-247 5.5

### 5.1 Antenna Conducted Spurious Emissions Test Procedure

A PCB mounted U.FL connector provided a port for measurement from 9 kHz to the 10<sup>th</sup> harmonic with the spectrum analyzer, for the low, mid, and high channels.

**Table 5-1: Antenna Conducted Spurious Emissions Test Equipment**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901583	Agilent	EXA N9010A	Spectrum Analyzer	MY51250846	4/21/17

### 5.2 Peak Output Power Test Data

**Plot 5-1: Antenna Conducted Spurious Emissions – 912 MHz**



**Plot 5-2: Antenna Conducted Spurious Emissions – 918 MHz**



**Plot 5-3: Antenna Conducted Spurious Emissions – 924 MHz**



Measurement uncertainties shown for these tests are expanded Gaussian uncertainties expressed at 95% confidence level using a coverage factor  $k = 1.96$ . Measurement uncertainty = 0.5 dB.

**Test Personnel:**

Jon Wilson  
 Test Engineer

*Jon Wilson*  
 Signature

October 10, 2015  
 Date of Test

## 6 Compliance with the Band Edge – FCC 15.247(d); RSS-247 5.5

### 6.1 Band Edge Test Procedure

Conducted measurements were taken. The span was set wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation. The spectrum analyzer was set to the following:

RBW > = 1 % of span  
VBW > = RBW  
Sweep = auto  
Detector function = peak  
Trace = max hold

The trace was allowed to stabilize. The marker was set on the emission at the band edge. The marker-delta was used to show the delta between the maximum in-band emission and the emission at the band edge, and was compared to the 20 dBc requirement of 15.247(d) (when using peak emissions) or restricted band.

**Table 6-1: Band Edge Test Equipment**

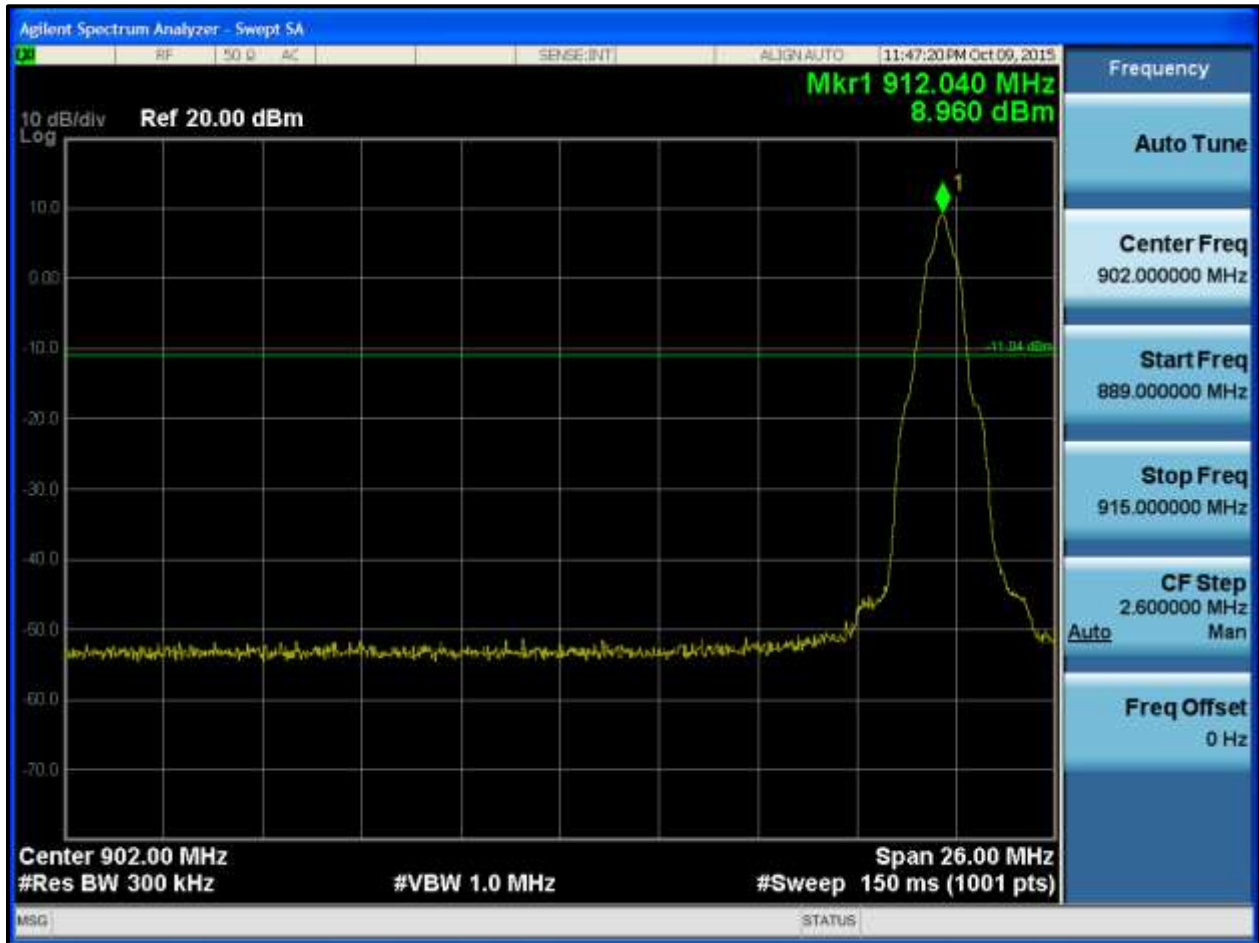
RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901583	Agilent	EXA N9010A	Spectrum Analyzer	MY51250846	4/21/17



## 6.2 Band Edge Test Results

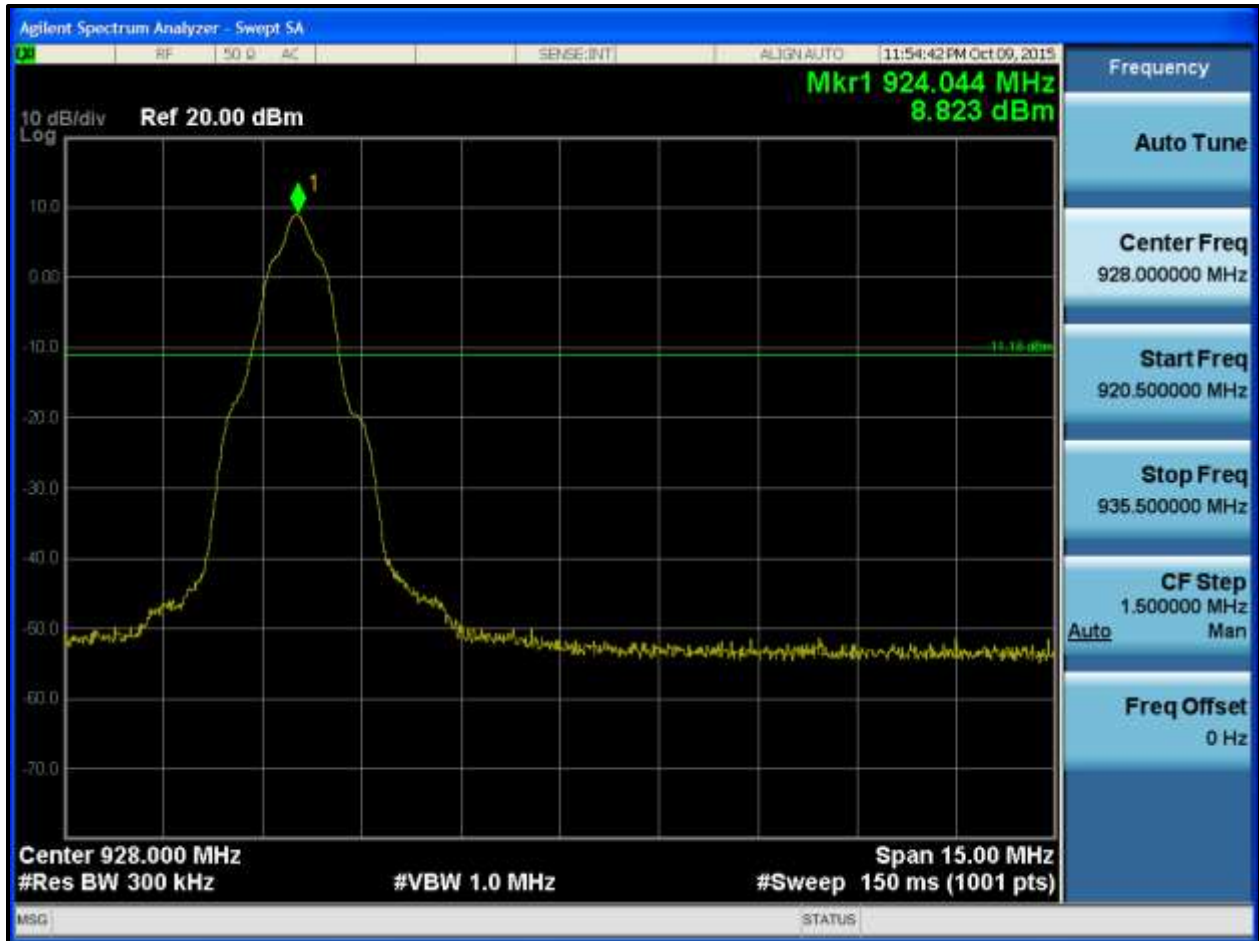
### 6.2.1 Lower Band Edge – Plot

Plot 6-1: Lower Band Edge



### 6.2.2 Upper Band Edge

Plot 6-2: Upper Band Edge



Measurement uncertainties shown for these tests are expanded Gaussian uncertainties expressed at 95% confidence level using a coverage factor  $k = 1.96$ . Measurement uncertainty = 0.5 dB.

**Test Personnel:**

Jon Wilson  
 Test Engineer

Signature

October 9, 2015  
 Date of Test

**7 Bandwidth – FCC 15.247(a)(2); RSS-247 5.2(1)**

**7.1 6 dB Bandwidth Test Procedure**

The minimum 6 bandwidth per FCC 15.247 (a)(1) and RSS-247 were measured using a 50-ohm spectrum analyzer. The carrier was adjusted on the analyzer so that it was displayed entirely on the spectrum analyzer. The sweep time was set to auto and allowed through several sweeps with the max hold function used in peak detector mode. The resolution bandwidth was set to 100 kHz, and the video bandwidth set at 300 kHz.

**Table 7-1: 6 dB Bandwidth Test Equipment**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901583	Agilent	EXA N9010A	Spectrum Analyzer	MY51250846	4/21/17

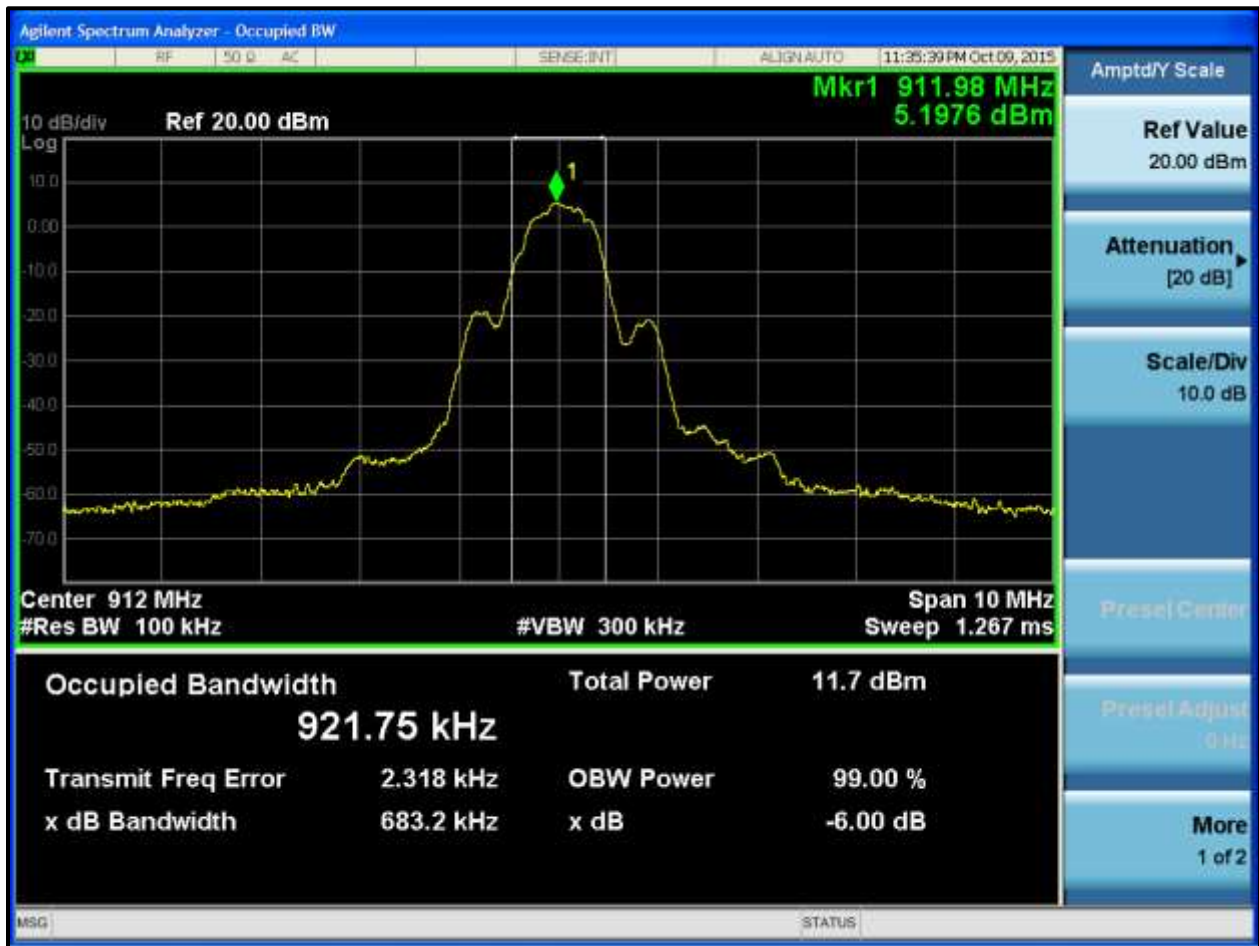
**7.2 Bandwidth Test Results**

**Table 7-2: 6 dB Bandwidth Test Data**

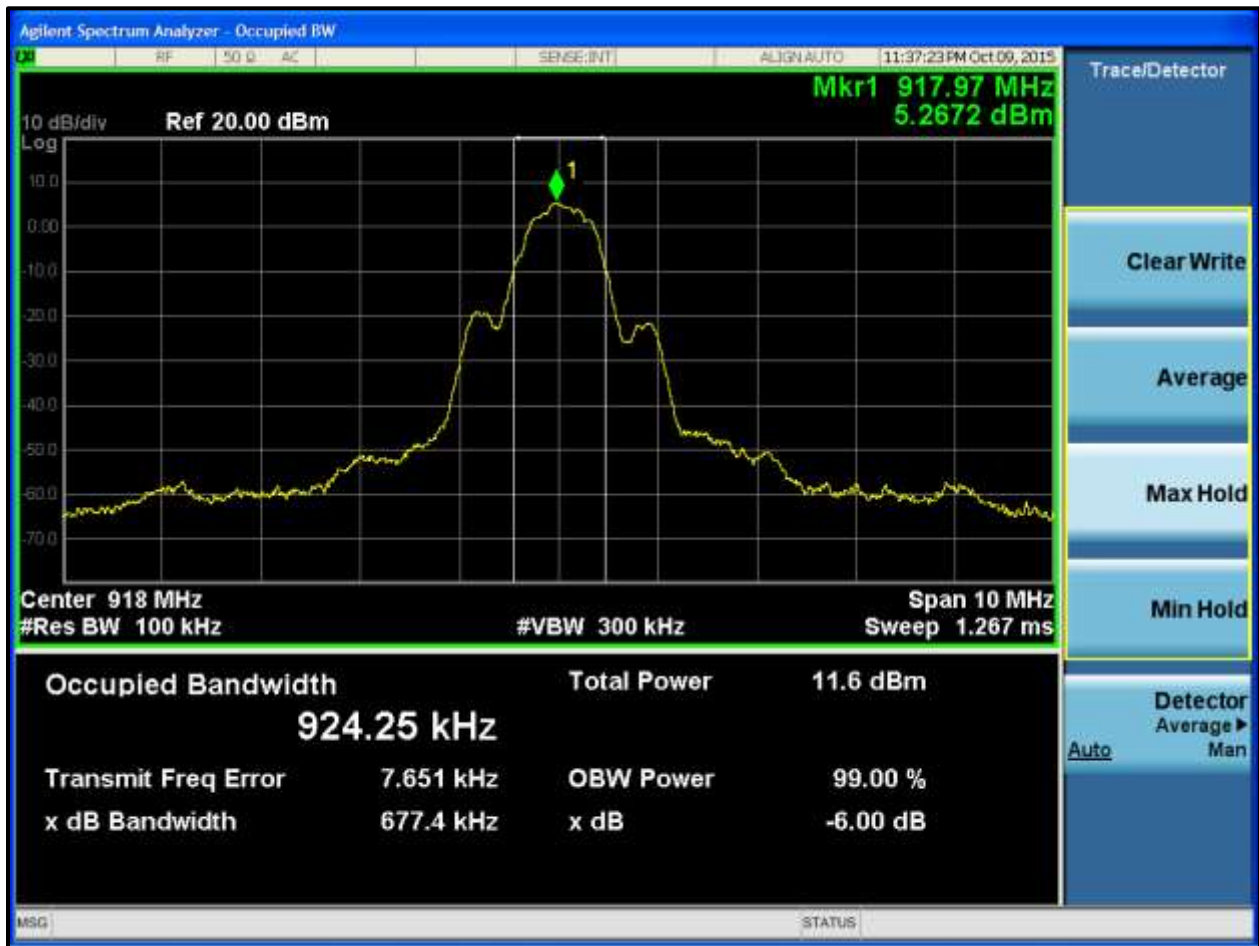
Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (MHz)	Pass/Fail
912	683.2	0.5	Pass
918	677.4	0.5	Pass
924	680.0	0.5	Pass

Measurement uncertainties shown for these tests are expanded Gaussian uncertainties expressed at 95% confidence level using a coverage factor  $k = 1.96$ . Measurement uncertainty = 12 Hz.

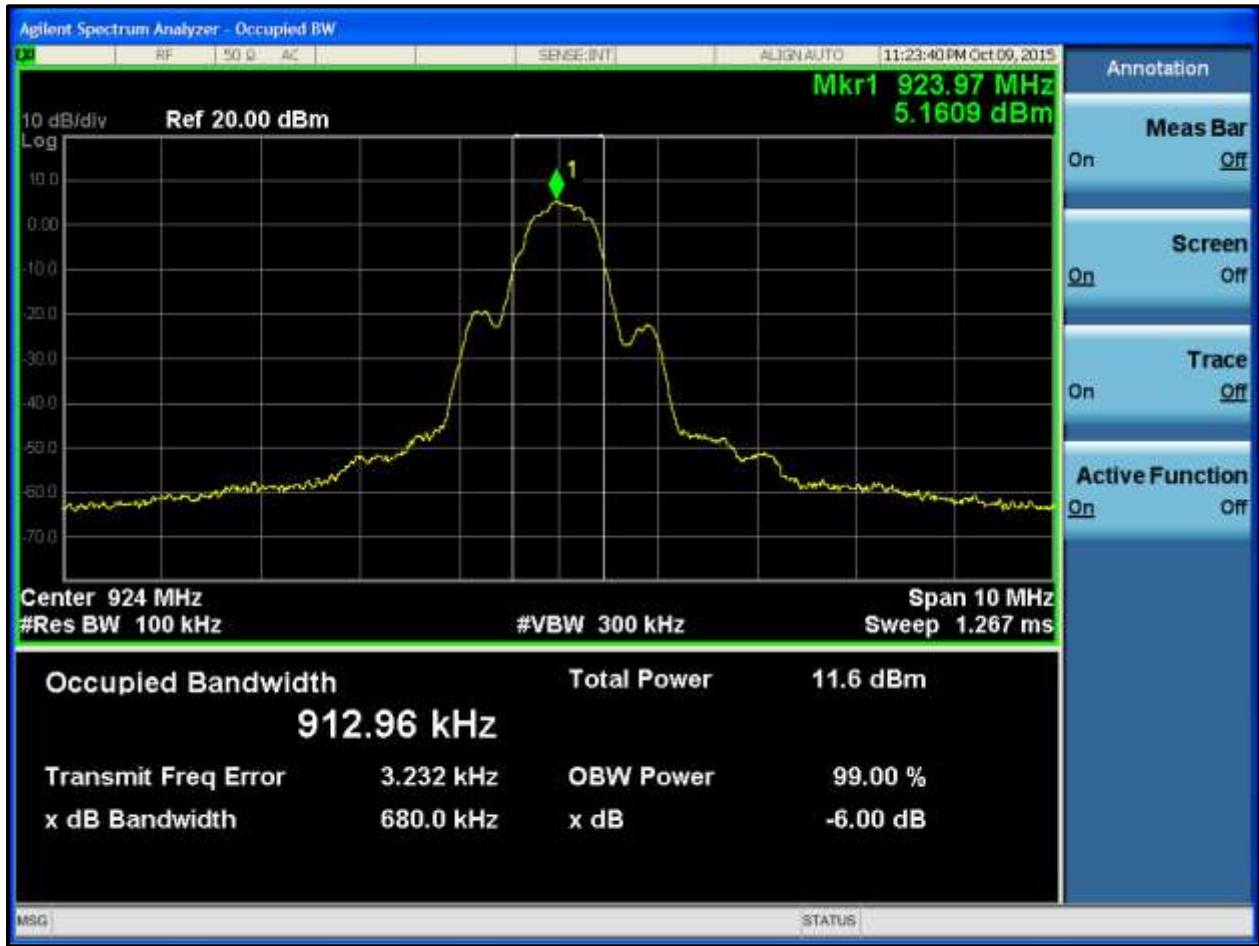
**Plot 7-1: 6 dB Bandwidth – 912 MHz**



**Plot 7-2: 6 dB Bandwidth – 918 MHz**



**Plot 7-3: 6 dB Bandwidth – 924 MHz**



**Test Personnel:**

Jon Wilson  
 Test Engineer

Signature

October 9, 2015  
 Date of Test

## 8 Radiated Emissions - 15.209; RSS-247 2.2; RSS-Gen 6.13/7.1

### 8.1 Limits of Radiated Emissions Measurement

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009-0.490	2400/f (kHz)	300
0.490-1.705	2400/f (kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any circumstances of modulation.

### 8.2 Radiated Emissions Measurement Test Procedure

Before final measurements of radiated emissions were made on the open-field three/ten meter range, the EUT was scanned indoors at one and three meter distances. This was done in order to determine its emissions spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to ensure that maximum emission amplitudes were attained.

Final radiated emissions measurements were made on the three/ten-meter, open-field test site. The EUT was placed on a nonconductive turntable 0.8 meters above the ground plane. The spectrum was examined from 9 kHz to the 10<sup>th</sup> harmonic of the highest fundamental transmitter frequency (10 GHz).

At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations. For frequencies between 30 and 1000 MHz, the spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. For emissions above 1000 MHz, emissions are measured using a VBW of 10 Hz, with a minimum resolution bandwidth of 1 MHz. No video filter less than 10 times the resolution bandwidth was used. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

**Table 8-1: Radiated Emissions Test Equipment**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900905	Rhein Tech Laboratories, Inc.	PR-1040	Amplifier (20 MHz - 2 GHz)	900905	9/11/16
900791	Chase	CBL6112	Antenna (30 MHz - 2 GHz)	2099	6/11/17
900913	Hewlett Packard	85462A	EMI Receiver RF Section (9 kHz - 6.5 GHz)	3325A00159	12/11/15
900914	Hewlett Packard	85460A	RF Filter Section (100 kHz - 6.5 GHz)	3330A00107	12/11/15
N/A	Rhein Tech Laboratories, Inc.	Automated Emission Tester	Emissions Testing Software	Rev. 14.0.2	N/A
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16
900932	Rhein Tech Laboratories	8449B OPT H02	Amplifier (1 - 26.5 GHz)	3008A00505	9/11/16
901262	ETS	3115	Double Ridge-Guide Horn Antenna (1 - 18 GHz)	6748	7/29/17



### 8.3 Radiated Emissions Test Results

#### 8.3.1 Unintentional Radiated Emissions Test Data

**Table 8-2: Digital Radiated Emissions Test Data**

Temperature: 70°F Humidity: 51%										
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pass/Fail
89.725	Qp	V	280	1.0	51.0	-22.6	28.4	43.5	-15.1	Pass
108.800	Qp	V	90	1.0	40.1	-20.4	19.7	43.5	-23.8	Pass
148.190	Qp	H	220	1.2	41.2	-20.9	20.3	43.5	-23.2	Pass
158.000	Qp	H	155	1.5	42.5	-21.1	21.4	43.5	-22.1	Pass
167.000	Qp	V	290	1.0	43.9	-21.4	22.5	43.5	-21.0	Pass
195.000	Qp	V	35	1.0	41.0	-21.6	19.4	43.5	-24.1	Pass
238.744	Qp	H	320	1.0	37.4	-19.4	18.0	46.0	-28.0	Pass

#### 8.3.2 Spurious/Harmonics Radiated Emissions Test Data

**Table 8-3: Radiated Emissions Spurious/Harmonics – 912 MHz**

Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2736.0	Pk	48.6	3.8	52.4	74.0	-21.6
2736.0	Av	36.4	3.8	40.2	54.0	-13.8
3648.0	Pk	47.6	3.2	50.8	74.0	-23.2
3648.0	Av	40.0	3.2	43.2	54.0	-10.8
4560.0	Pk	31.6	12.3	43.9	74.0	-30.1
4560.0	Av	23.5	12.3	35.8	54.0	-18.2
7296.0	Pk	32.5	8.9	41.4	74.0	-32.6
7296.0	Av	20.7	8.9	29.6	54.0	-24.4
8208.0	Pk	33.4	9.8	43.2	74.0	-30.8
8208.0	Av	22.2	9.8	32.0	54.0	-22.0
9120.0	Pk	25.2	18.8	44.0	74.0	-30.0
9120.0	Av	14.1	18.8	32.9	54.0	-21.1

**Table 8-4: Radiated Emissions Spurious/Harmonics - 918 MHz**

Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2754.0	Pk	34.1	7.6	41.7	74.0	-32.3
2754.0	Av	25.5	7.6	33.1	54.0	-20.9
3672.0	Pk	47.9	3.0	50.9	74.0	-23.1
3672.0	Av	41.7	3.0	44.7	54.0	-9.3
4590.0	Pk	31.1	7.8	38.9	74.0	-35.1
4590.0	Av	20.0	7.8	27.8	54.0	-26.2
7344.0	Pk	32.3	13.4	45.7	74.0	-28.3
7344.0	Av	23.9	13.4	37.3	54.0	-16.7
8262.0	Pk	32.9	11.0	43.9	74.0	-30.1
8262.0	Av	21.8	11.0	32.8	54.0	-21.2
9180.0	Pk	27.9	15.6	43.5	74.0	-30.5
9180.0	Av	18.7	15.6	34.3	54.0	-19.7

**Table 8-5: Radiated Emissions Spurious/Harmonics - 924 MHz**

Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2772.0	Pk	44.4	6.2	50.6	74.0	-23.4
2772.0	Av	33.7	6.2	39.9	54.0	-14.1
3696.0	Pk	48.9	4.1	53.0	74.0	-21.0
3696.0	Av	42.1	4.1	46.2	54.0	-7.8
4620.0	Pk	33.2	10.9	44.1	74.0	-29.9
4620.0	Av	24.8	10.9	35.7	54.0	-18.3
7392.0	Pk	32.9	14.0	46.9	74.0	-27.1
7392.0	Av	23.3	14.0	37.3	54.0	-16.7
8316.0	Pk	30.9	11.1	42.0	74.0	-32.0
8316.0	Av	28.2	11.1	39.3	54.0	-14.7

Measurement uncertainty: Measurement uncertainties shown for these tests are expanded uncertainties expressed at 95% confidence level using a coverage factor k = 2. +4.0 dB / -2.65 dB

**Test Personnel:**

Jon Wilson Test Engineer	 Signature	October 6-7, 2015 Dates of Test
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## 9 AC Conducted Emissions - FCC 15.207; RSS-Gen 7.2.4: Conducted Limits

### 9.1 Site and Test Description

The power line conducted emissions measurements were performed in a Series 81 type shielded enclosure manufactured by Rayproof. The EUT was assembled on a wooden table 80 centimeters high. Power was fed to the EUT through a 50-ohm/50 microhenry Line Impedance Stabilization Network (LISN). The EUT LISN was fed power through an A.C. filter box on the outside of the shielded enclosure. The filter box and EUT LISN housing are bonded to the ground plane of the shielded enclosure. A second LISN, the peripheral LISN, provides isolation for the EUT test peripherals. This peripheral LISN was also fed A.C. power. A metal power outlet box, which is bonded to the ground plane and electrically connected to the peripheral LISN, powers the EUT host peripherals.

The spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the EUT LISN was connected to the spectrum analyzer input through a Solar 100 kHz high-pass filter. The filter is used to prevent overload of the spectrum analyzer from noise below 100 kHz. Conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable).

The analyzer's 6 dB bandwidth was set to 9 kHz. Video filter less than 10 times the resolution bandwidth is not used. Average measurements are performed in linear mode using a 10 kHz resolution bandwidth, a 1 Hz video bandwidth, and by increasing the sweep time in order to obtain a calibrated measurement. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded.

### 9.2 Test Limits

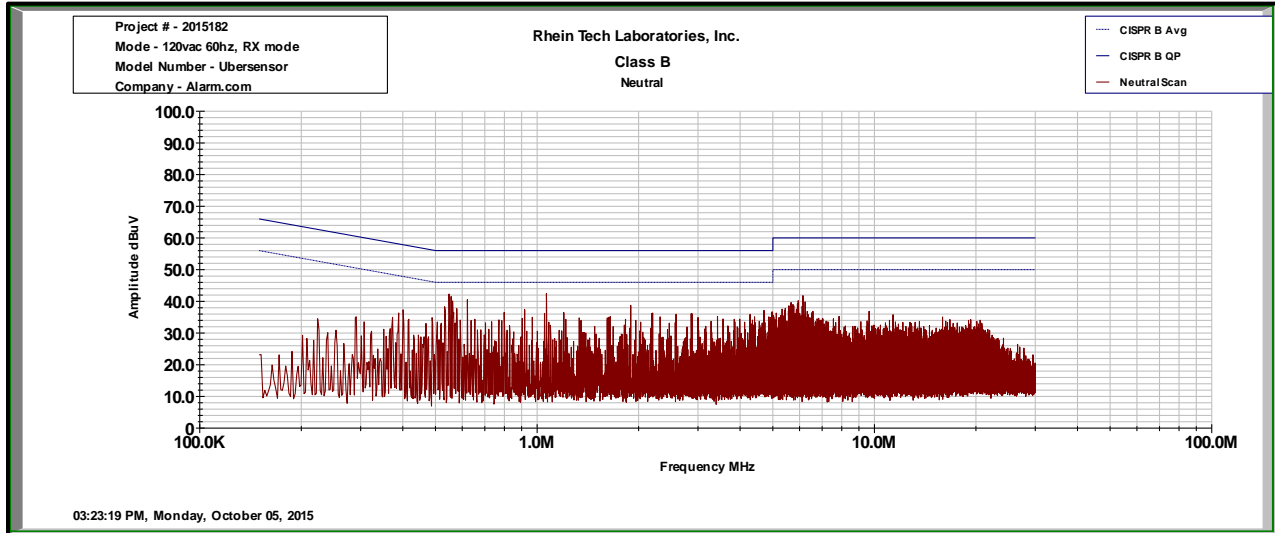
Line-Conducted Emissions		
Limit (dBµV)		
Frequency (MHz)	Quasi-Peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.00	56	46
5.00 to 30.00	60	50

Table 9-1: Conducted Emissions Test Equipment

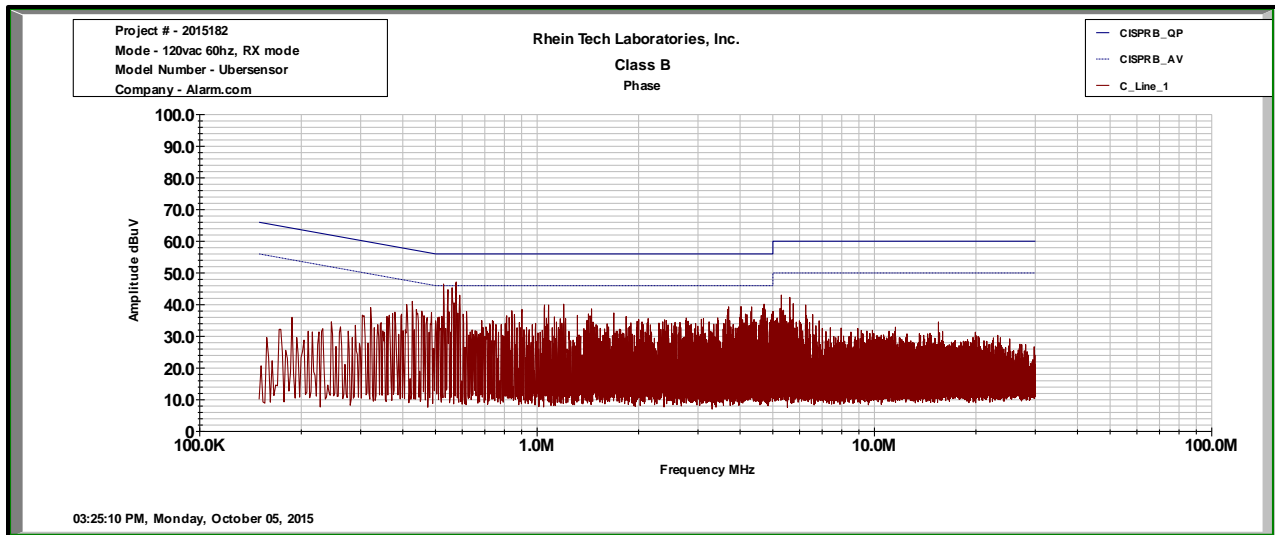
RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900339	Hewlett Packard	85650A	Quasi-Peak Adapter	2521A00743	2/17/16
900930	Hewlett Packard	85662A	Spectrum Analyzer Display	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz – 22 GHz)	3138A07771	4/21/16
901083	AFJ International	LS16/110VAC	16A LISN	16010020080	3/11/17
N/A	Quantum Change	Tile!	Test Software	4.0.A.8	N/A

### 9.3 Conducted Emissions Test Data

**Plot 9-1: Conducted Emissions Transmit - Neutral Side – Receive Mode**

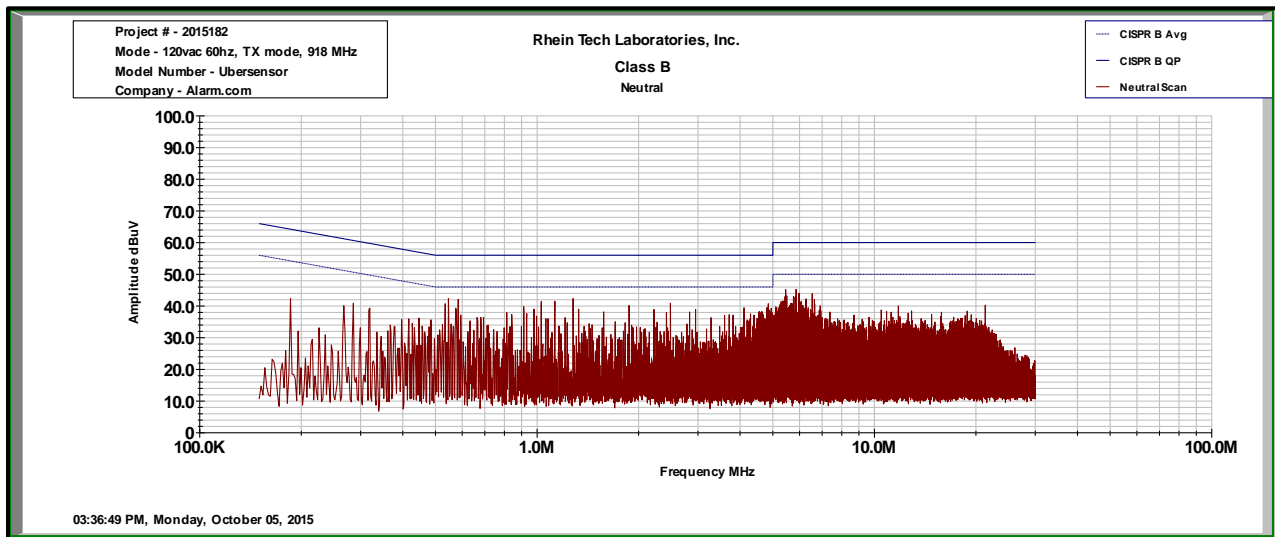


**Plot 9-2: Conducted Emissions Transmit - Phase Side – Receive Mode**

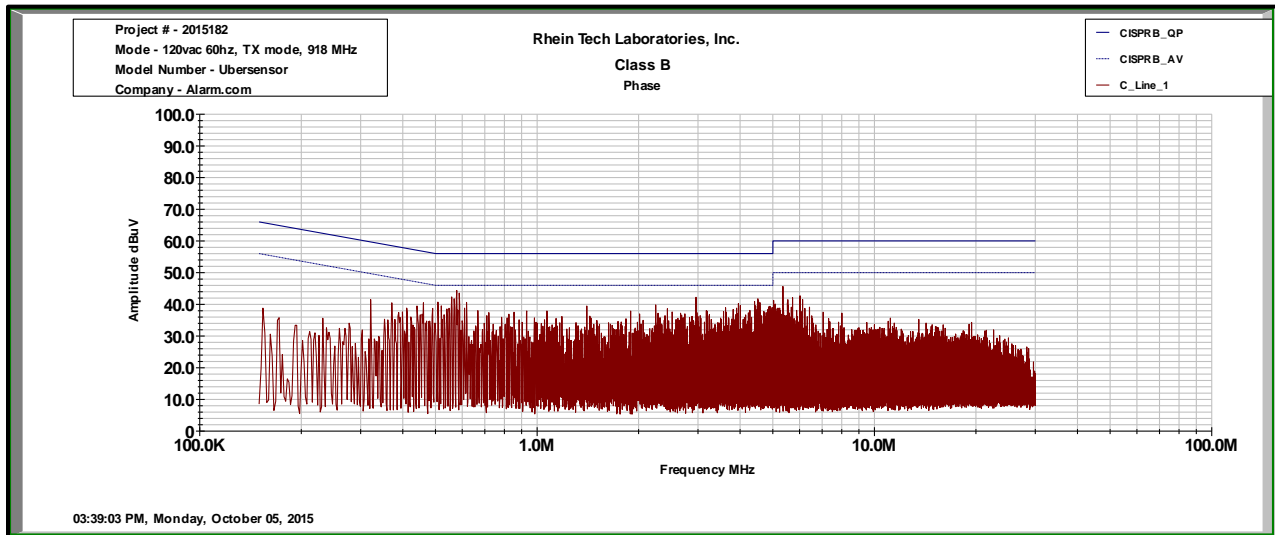


Frequency (MHz)	Detector	Level (dBµV)	Site Correction Factor (dB)	Corrected Level (dBµV)	Limit (dBµV)	Margin (dB)	Pass/Fail
0.565	QP	46.8	0.9	47.7	56.0	-8.3	Pass
0.565	Av	27.9	0.9	28.8	46.0	-17.2	Pass

**Plot 9-3: Conducted Emissions Transmit - Neutral Side – Transmitting**



**Plot 9-4: Conducted Emissions Transmit - Phase Side – Transmitting**



Frequency (MHz)	Detector	Level (dBμV)	Site Correction Factor (dB)	Corrected Level (dBμV)	Limit (dBμV)	Margin (dB)	Pass/Fail
0.578	QP	48.4	0.9	49.3	56.0	-6.7	Pass
0.578	Av	30.1	0.9	31.0	46.0	-15.0	Pass

Measurement uncertainty: Measurement uncertainties shown for these tests are expanded uncertainties expressed at 95% confidence level using a coverage factor  $k = 2$ .  $\pm 3.6$  dB

**Test Personnel:**

Jon Wilson  
 Test Engineer

*Jon Wilson*  
 Signature

October 5, 2015  
 Date of Test

Rhein Tech Laboratories, Inc.  
360 Herndon Parkway  
Suite 1400  
Herndon, VA 20170  
<http://www.rheintech.com>

Client: Alarm.com  
Model: ADC-UB-100-AT  
Standards: FCC 15.247/IC RSS-247  
ID's: YL6-143UB100AT/9111A-143UB100AT  
Report #: 2015182

## **10 Conclusion**

The data in this measurement report shows that the EUT as tested, Alarm.com Model ADC-UB-100-AT, FCC ID: YL6-143UB100AT, IC: 9111A-143UB100AT, complies with the applicable requirements of Parts 2 and 15 of the FCC Rules and Regulations and Industry Canada RSS-247 and RSS-Gen.