

Retlif Testing Laboratories

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FCC/IC Test Report on

Elevator Display System Model: EDU-700

Customer Name: Captivate Network Customer P.O.: 7418 Date of Report: February 8, 2013 Test Report No.: R-5650N-1, Rev. A **Test Start Date:** November 26, 2012 Test Finish Date: December 11, 2012 Test Technician: M. Seamans **Branch Manager:** S. Wentworth Laboratory Supervisor: T. Hannemann Report Prepared By: J. Ramsey **Government Source Inspection:** N/A

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Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Scott Wentworth Branch Manager

law Wenter

NVLAP Approved Signatory

Todd Hannemann

Laboratory Supervisor

iNARTE Certified Technician ATL-0255-T

Non-Warranty Provision

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

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Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

Revision	Date	Pages Affected
-	December 27, 2012	Original Release
Α	February 8, 2013	Pages 52, 53, 54, 56, 57, 58

Test Program Summary

	Applicant	Manufacturer		
Name:	Captivate Network	Name:	Captivate Network	
Address:	2 Executive Dr. Suite 301	Address:	2 Executive Dr. Suite 301	
City, State, Zip:	Chelmsford, MA 01824	City, State, Zip:	Chelmsford, MA 01824	

Test Specifications:

FCC Rules and Regulations Part 15, Subpart C, Para. 15.247

Radio Standards Specification, RSS-210, Issue 8, December, 2010 and RSS-GEN, Issue 3, December 2010

Test Procedure:

ANSI C63.4:2003 & FCC Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under 15.247, 10/4/2012.

Test Sample Description

EUT: Elevator Display Unit (Media Player) with LVDS Display **Brandname:** Captivate Network System Model Number: EDU-700 FCC ID: QGC-6F127021 IC: 10666A-7C127022 Wireless Type: Direct Sequence Spread Spectrum (DSSS) Transceiver **Power Requirements:** 120 VAC, 60 Hz, Single Phase Frequency Band of Operation: 2400 to 2483.5 MHz Antenna Type: Nearson S131AM-2450R - 1/4 Wave Dipole 2dBi Antenna Ports: (2) Reverse Polarity SMA

EUT Description/installation:

The EUT is an Elevator Display Unit (Media Player) which is professionally installed in elevators for the purpose of showing messages/advertisements to elevator users. The EUT contains a 2.4GHz DSSS Wireless module which is used to communicate wirelessly with a network to receive programming information. The Display is mounted on the interior of the elevator with the EDU containing the wireless module mounted on the outside of the elevator directly opposite the display but behind the elevator panels. For testing purposes the installation was simulated by mounting the display to one side of a sheet metal panel and the EDU to the other side.

EUT Components:

System Component	Model Number	Part Number	Manufacturer
Elevator Display Unit	EDU-700	N/A	Captivate Network
(Control Unit with Wireless Module)			
12" VGA Display	12-VGA	15-9017-539	NLT Technologies
12" LVDS Display	NL8060BC31-47	A1A20030	NLT Technologies

Support Equipment:

Description	Model Number	Part Number	Manufacturer
Ethernet Extender	N/A	2172R/TB/EV1	Patton

Tests Performed

The test methods performed on the Elevator Display Unit (Media Player) with LVDS Display are shown below:

FCC Part 15, Subpart C	Industry Canada RSS-210 Issue 8, Dec. 2010	Industry Canada RSS-GEN Issue 3, Dec. 2010	Test Method
15.247(a)(2)	A8.2(a)	N/A	6dB Bandwidth
15.247(b)(3)	A8.4(4)	N/A	Maximum Peak Conducted Output Power
15.247(d)	A8.5	N/A	Antenna Port, Out of Band Emissions
15.247(e)	A8.2(b)	N/A	Antenna Port Peak Power Spectral Density
15.247(d) 15.205(a)/15.209(a)	A8.5	7.2.2	Transmitter Spurious Radiated Emissions/Restricted Bands/Bandedge 30 MHz to 25 GHz
15.207(a)	N/A	7.2.4	Conducted Emissions, Power Leads, 150 kHz to 30 MHz
N/A	N/A	6.1	Receiver Spurious Radiated Emissions 30 MHz to 25 GHz

Requirements and Test Results

Requirement:

FCC Section 15.247(a)(2) – 6dB Bandwidth

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands. The minimum 6 dB bandwidths shall be at least 500 kHz.

IC RSS-210, A8.2(a) – 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

- Results (Primary Port):
 The minimum 6 dB bandwidth measured 12.19 MHz which complies with the requirement that the Bandwidth be no less than 500 kHz.
- Results (Secondary Port):
 The minimum 6 dB bandwidth measured 12.31 MHz which complies with the requirement that the Bandwidth be no less than 500 kHz.

Requirement:

FCC Sections 15.247(b)(3) - Peak Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For systems using digital modulation in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antenna and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antenna and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

IC RSS-210, A8.4(4) - Transmitter Output Power and e.i.r.p. Requirements

For systems employing digital modulation techniques operating in the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz, the maximum peak conducted output power shall not exceed 1 Watt. Except as provided in Section A8.4(5), the e.i.r.p. shall not exceed 4 Watts.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power (RSS-Gen).

Results (Primary Port):

The maximum peak output power on the primary port was measured and found to be 52.72 mW (17.22 dBm), in compliance with the specified limit of 1 watt.

Results (Secondary Port):

The maximum peak output power on the secondary port was measured and found to be 51.17 mW (17.09 dBm), in compliance with the specified limit of 1 watt.

• Results (Composite Power):

The maximum peak output power on the primary port and the maximum peak output power on the secondary port were summed to find the maximum composite peak output power. The maximum composite peak output power was 280.60 mW, which was in compliance with the specified limit of 1 watt.

Results (EIRP):

The antenna's used with the EUT have a maximum gain of 2dBi (do not exceed 6dBi) and therefore the EIRP is in compliance with the de facto EIRP limit.

Requirement:

FCC Section 15.247(d) - Out of Band Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) must also comply with the radiated emissions limits specified in Section 15.209(a) (see Section 15.205(c)).

IC RSS-210, A8.5 - Out of Band Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under Section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 of RSS-210 is not required.

Results:

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below that in the 100 kHz bandwidth within the band that contained the highest level of the desired power.

FCC Section 15.247(d) - Radiated Spurious Emissions/Restricted Bands/Band Edge

Emissions which fall into restricted bands, as defined in 15.205(a) must comply with the radiated emissions limits specified in 15.209(a) and shown below in Table 1. Emissions emanating from the EUT cabinet and cables must also comply with the radiated emissions limits. Radiated emissions measurements were also performed at the band edges to ensure band edge compliance.

IC RSS-210, A8.5 - Radiated Spurious Emissions/Restricted Bands/Band Edge

Emissions which fall into restricted bands, as defined in RSS-Gen, Para. 7.2.2 must comply with the radiated emissions limits specified in RSS Gen, Para. 7.2.5 and shown below in Table 1. Emissions emanating from the EUT cabinet and cables must also comply with the radiated emissions limits. Radiated emissions measurements were also performed at the band edges to ensure band edge compliance.

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Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)			
30 to 88	100	3			
88 to 216	150	3			
216 to 960	200	3			
Above 960	500	3			

Table 1 - Radiated Emission Limits

Results:

No EUT spurious emissions were observed in restricted bands. All spurious emissions were measured and found to be in compliance with the limits specified in 15.209(a)/RSS Gen Para. 7.2.5. Band edge emissions were also found to be in compliance with the limits specified in 15.209(a)/RSS Gen Para. 7.2.5.

IC RSS-Gen, Par. 6.1 - Receiver Radiated Spurious Emissions

Spurious emissions from receivers must comply with the radiated emissions limits specified in RSS-Gen, Para. 6.1 and shown above in Table 1.

Results:

No EUT receiver spurious emissions were observed within in 10dB of the specified limit.

Requirement:

FCC Section 15.247(e) - Power Spectral Density

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

IC RSS-210, A8.2(b) – Power Spectral Density:

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration. This power spectral density shall be determined in accordance with the provisions of Section A8.4(4); (i.e. the power spectral density shall be determined using the same method for determining the conducted output power).

Results (Primary and Secondary Ports):
 The power spectral density conducted from the intentional radiator to the antenna was not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density was determined in accordance with Section 15.247(b)(3), herein. The same method of determining the conducted output power was used to determine the power spectral density.

Requirement:

FCC Section 15.207(a) - Conducted Limits

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits shown in Table 2, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

IC RSS-GEN, Section 7.2.2: Transmitter and Receiver AC Power Lines Conducted Emission Limits

The purpose of this test is to measure unwanted radio frequency currents induced in any AC conductor external to the equipment which could conduct interference to other equipment via the AC electrical network.

Except when the requirements applicable to a given device state otherwise, for any license-exempt radio communication device equipped to operate from the public utility AC power supply, either directly or indirectly, the radio frequency voltage that is conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in Table 2. The tighter limit applies at the frequency range boundaries.

The conducted emissions shall be measured with a 50 ohm/50 microhenry line impedance stabilization network.

Table 2 - Conducted Emission Limits

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-Peak	Average	
0.15 to 0.5	66 to 56*	56 to 46*	
0.5 to 5	56	46	
5 to 30	60	50	
*Decreases due to logarithm of the f	requency		

Results:

The conducted emissions observed did not exceed the limits specified in Table 2.

Equipment List

6 dB Bandwidth

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
4895	AGILENT / HP	SPECTRUM ANALYZER	9kHz - 22GHz	8593EM	10/24/2012	10/31/2013
5038	FLUKE	10DB ATTENUATOR	10KHZ - 1GHZ	Y9304	10/22/2012	10/31/2013

Antenna Port – Maximum Conducted Peak Power Output

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
1035	BOONTON	POWER METER	10 kHz - 100 GHz	4232A	9/6/2012	9/30/2013
4961	NARDA	ATTENUATOR	DC - 18 GHz	757C-30DB	1/19/2012	1/31/2013
5030C	NARDA	10DB ATTENUATOR	DC - 12.4 GHz	757C-10	10/17/2012	10/31/2013
5059	BOONTON	POWER SENSOR	10 KHZ - 8 GHZ	51011-EMC	9/5/2012	9/30/2013

Antenna Port, Out of Band Conducted Emissions

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
4895	AGILENT / HP	SPECTRUM ANALYZER	9kHz - 22GHz	8593EM	10/24/2012	10/31/2013
5038	FLUKE	10DB ATTENUATOR	10KHZ - 1GHZ	Y9304	10/22/2012	10/31/2013

Antenna Port, Peak Power Spectral Density

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
4895	AGILENT / HP	SPECTRUM ANALYZER	9kHz - 22GHz	8593EM	10/24/2012	10/31/2013
5038	FLUKE	10DB ATTENUATOR	10KHZ - 1GHZ	Y9304	10/22/2012	10/31/2013

Spurious Radiated Emissions, 30 MHz to 25 GHz

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
4029	RETLIF	OPEN AREA TEST SITE	3 / 10 Meters	RNH	7/24/2012	7/24/2015
5053	EMCO	BICONILOG ANTENNA	26 MHz - 3 GHz	3142C	11/14/2011	12/31/2012
R444	AGILENT / HP	SPECTRUM ANALYZER	100 Hz - 26.5 GHz	E7405A;A	7/6/2012	7/6/2013
1232	AGILENT / HP	PRE-AMPLIFIER	1 - 26.5GHz	8449B	5/30/2012	5/31/2013
3258	EMCO	DOUBLE RIDGED GUIDE ANTENNA	1 GHZ - 18GHZ	3115	2/24/2012	2/28/2013
3430	MCS	HORN ANTENNA	18 GHz - 26.5 GHz	K-5039	1/19/2012	1/31/2013

Conducted Emissions, Power Leads, 150 kHz to 30 MHz

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5038 5070	FLUKE ROHDE & SCHWARZ	10DB ATTENUATOR EMI TEST RECEIVER	10KHZ - 1GHZ 20 Hz - 40 GHz	Y9304 ESIB40	10/22/2012 11/6/2012	10/31/2013 11/30/2013
5152	GENERAL TECHNICS Control Computer			INDUSTRIAL PC	No Calibration Required	
7032	ROHDE & SCHWARZ	LINE IMPEDANCE STABILIZATION NETWORK	9KHZ-30MHZ	ESH 3-Z5	1/16/2012	1/31/2013

Test Photograph(s)
6 dB Bandwidth
FCC Part 15, Subpart C, Section 15.247(a)(2)
RSS-210, Section A8.2(a)

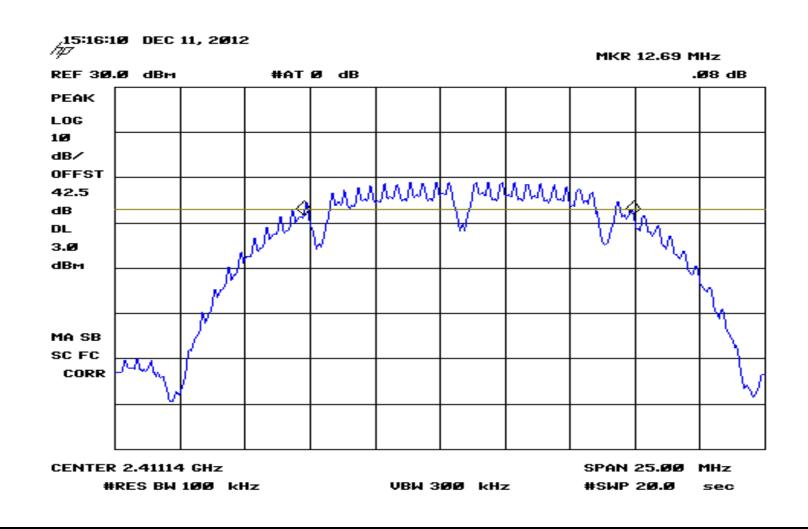
Test Photograph(s) 6dB Bandwidth



EUT Configuration

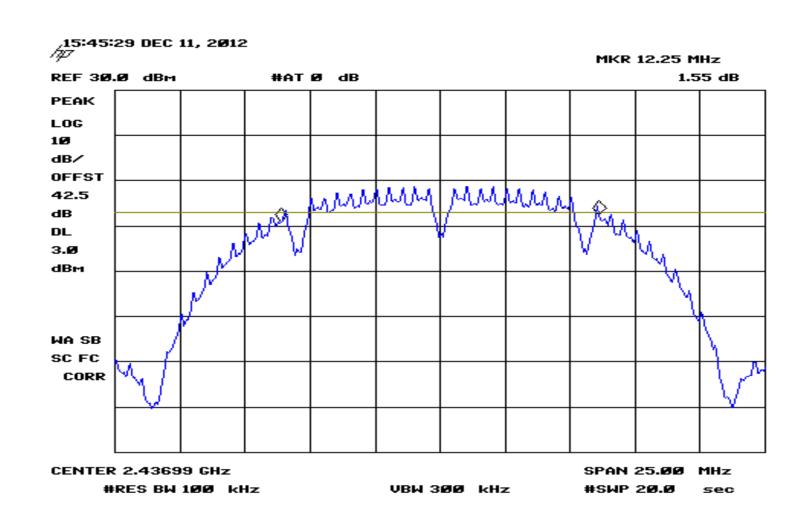
6 dB Bandwidth
FCC Part 15, Subpart C, Section 15.247(a)(2)
RSS-210, Section A8.2(a)
Test Data

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET 6 dB Bandwidth Test Method: Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 N/A Serial No: Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 12/11/2012 Paragraph: 15.247(a)(2) Operating Mode: Transmitting Frequency Tested: Channel 1 2.41114 GHz 6dB Bandwidth: 12.69 MHz Notes: Port Tested: Primary



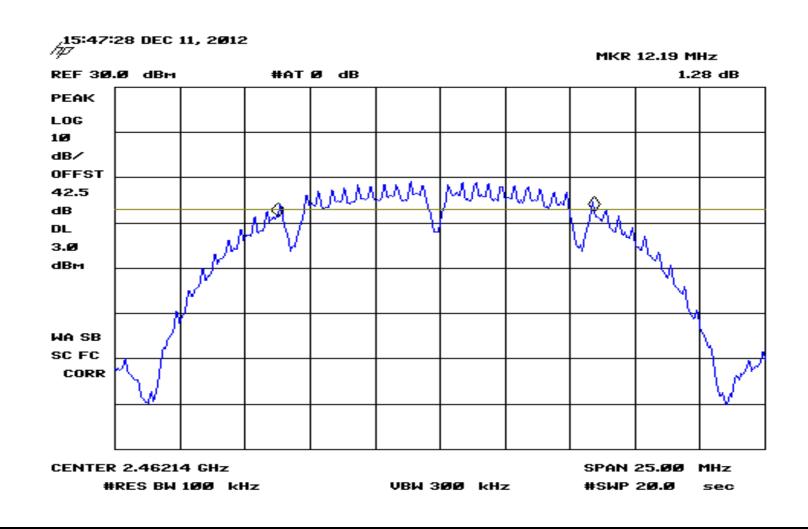
Data Sheet 1 of 3

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET 6 dB Bandwidth Test Method: Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 N/A Serial No: Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 12/11/2012 Paragraph: 15.247(a)(2) Operating Mode: Transmitting Notes: Port Tested: Primary Frequency Tested: Channel 11 2.43804 GHz 6dB Bandwitdh: 12.25 MHz



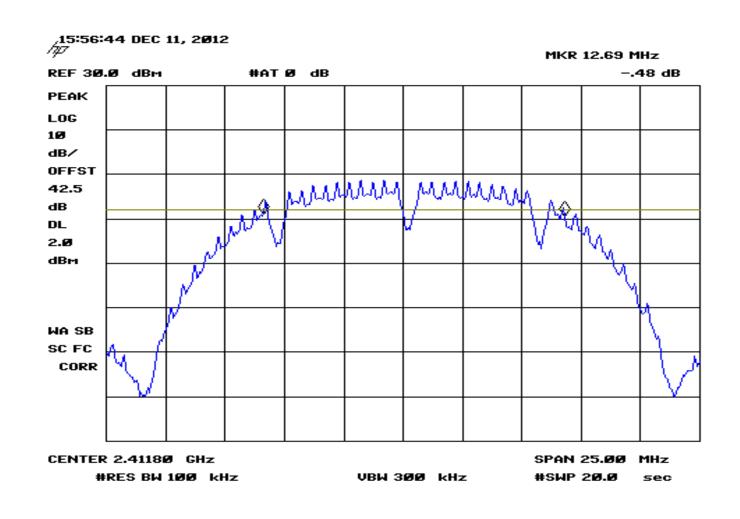
Data Sheet 2 of 3

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET 6 dB Bandwidth Test Method: Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 N/A Serial No: Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 12/11/2012 Paragraph: 15.247(a)(2) Operating Mode: Transmitting Frequency Tested: Channel 11 2.46104 GHz 6dB Bandwidth: 12.19 MHz Notes: Port Tested: Primary



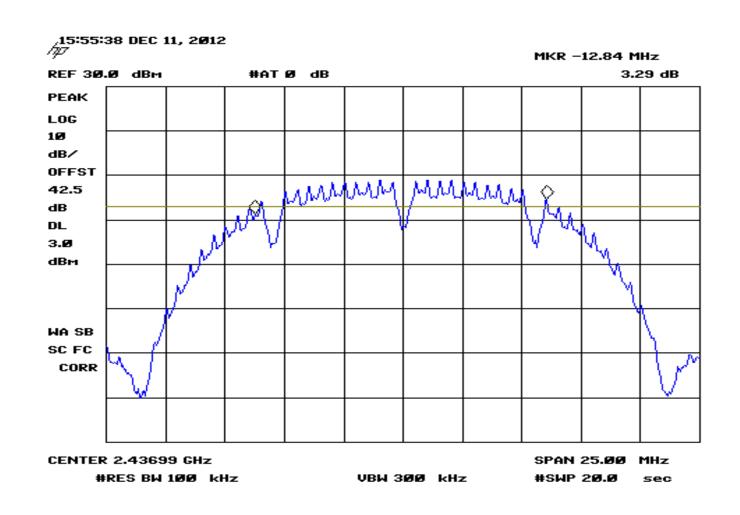
Data Sheet 3 of 3

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET 6 dB Bandwidth Test Method: Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 N/A Serial No: Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 12/11/2012 Paragraph: 15.247(a)(2) Operating Mode: Transmitting Notes: Port Tested: Secondary Frequency Tested: Channel 1 2.41114 GHz 6dB Bandwidth: 12.69 MHz



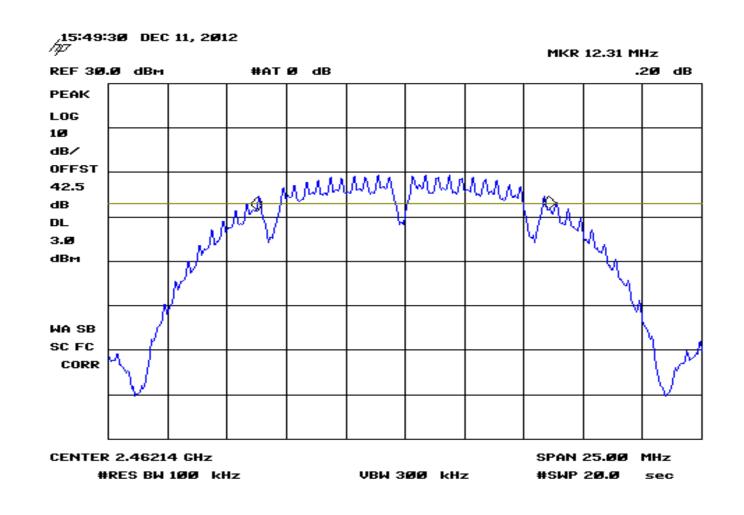
Data Sheet 1 of 3

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET 6 dB Bandwidth Test Method: Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 N/A Serial No: Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 12/11/2012 Paragraph: 15.247(a)(2) Operating Mode: Transmitting Notes: Port Tested: Secondary Frequency Tested: Channel 11 2.43804 GHz 6dB Bandwitdh: 12.84 MHz



Data Sheet 2 of 3 R-5650N-1

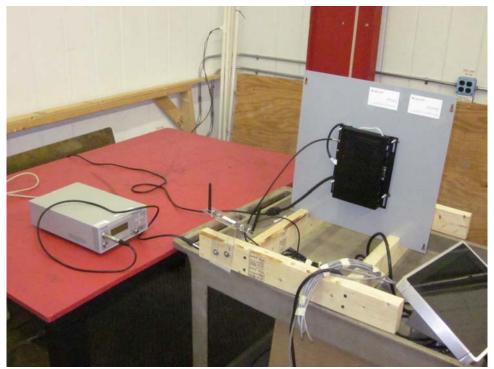
RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET 6 dB Bandwidth Test Method: Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 N/A Serial No: Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 12/11/2012 Paragraph: 15.247(a)(2) Operating Mode: Transmitting Notes: Port Tested: Secondary Frequency Tested: Channel 11 2.46104 GHz 6dB Bandwidth: 12.31 MHz



Data Sheet 3 of 3

Test Photograph(s)
Maximum Conducted Peak Power Output
FCC Part 15, Subpart C, Section 15.247(b)(3)
RSS-210, Section A8.4(4)

Test Photograph(s) Maximum Conducted Peak Power Output



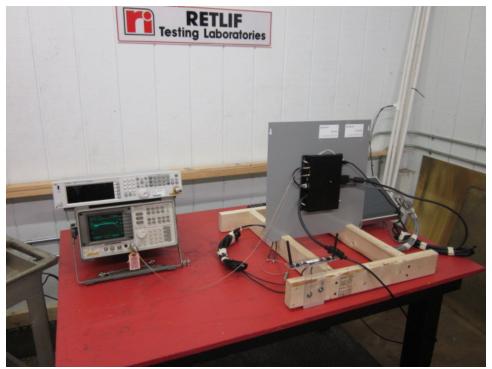
Test Setup

Maximum Conducted Peak Power Output FCC Part 15, Subpart C, Section 15.247(b)(3) RSS-210, Section A8.4(4) Test Data

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Peak Power Output R-5650N-1 Customer Captivate Network Job No. **Test Sample** Elevator Display Unit (Media Player) with LVDS Display EDU-700 Model No. Serial No. N/A FCC Part 15 Subpart C Test Specification: Paragraph: 15.247(b)(3) Operating Mode: Transmitting Technician: T. Hannemann December 14, 2012 Date: Notes: Power measured with a power meter and combined to show composite power of both ports. Antenna Measured Corrected Combined Combined Port Channel Frequency Level Cable Factor Output Output Output GHz dBm dΒ dBm dBmWatts 17.22 Primary 1 2.41194 -25.28 42.50 24.48 0.2806 42.50 17.09 Secondary 1 2.41194 -25.41 24.24 42.50 16.57 0.2142 Primary 6 2.43644 -25.93 23.31 Secondary 6 2.43644 -26.12 42.50 16.38 22.97 2.46214 -25.51 42.50 16.99 24.06 0.2548 Primary 11 Secondary 11 2.46214 -25.62 42.50 16.88 23.86 Data Sheet 1 of 1 R-5650N-1

Test Photograph(s)
Antenna Port, Out of Band Conducted Emissions
FCC Part 15, Subpart C, Section 15.247(d)
RSS-210, Section A8.5

Test Photograph(s) Antenna Port, Out of Band Conducted Emissions



EUT Configuration

Antenna Port, Out of Band Conducted Emissions FCC Part 15, Subpart C, Section 15.247(d) RSS-210, Section A8.5 Test Data

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Antenna Port, Conducted Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Channel 1 Transmitting at 2.41194 GHz M. Seamans Technician: Date: November 27, 2012 Notes: Port Tested: Primary Test Uncorrected Cable Corrected Limit Frequency Reading Loss Reading MHz dBm dΒ dBm dBm 30.00 -2.78 -50.52 73.00 -51.0 0.45 75.13 -52.6 0.45 -52.15 149.60 -52.3 0.95 -51.36 187.40 _ -60.4 1.05 -59.38 240.00 -60.32 -61.5 1.15 451.50 -37.2 1.50 -35.72 457.00 -51.5 1.50 -49.97 -46.9 1408.00 3.00 -43.85 1660.00 -30.8 3.10 -27.70 4823.00 -59.6 4.91 -54.71 7240.00 -52.6 5.35 -47.22 _ _ 25000.00 -2.78 In any 100 kHz bandwidth outside the frequency band in which the intentional radiater was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below the highest level of the fundamental power output. Data Sheet 1 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Antenna Port, Conducted Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Channel 6 Transmitting at 2.43644 GHz M. Seamans Technician: Date: November 27, 2012 Notes: Port Tested: Primary Test Uncorrected Cable Corrected Limit Frequency Reading Loss Reading MHz dBm dΒ dBm dBm 30.00 -3.43 -45.37 105.40 -46.4 1.00 211.00 -47.7 1.15 -46.58 275.50 -56.0 1.15 -54.86 476.00 _ -40.6 1.50 -39.10 481.50 -53.26 -54.8 1.50 1451.00 3.00 -40.88 -43.9 1695.00 -30.4 3.15 -27.22 4874.00 4.95 -65.8 -60.85 _ _ 25000.00 -3.43 In any 100 kHz bandwidth outside the frequency band in which the intentional radiater was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below the highest level of the fundamental power output. Data Sheet 2 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Antenna Port, Conducted Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Channel 11 Transmitting at 2.46214 GHz M. Seamans Technician: Date: November 27, 2012 Notes: Port Tested: Primary Test Uncorrected Cable Corrected Limit Frequency Reading Loss Reading MHz dBm dΒ dBm dBm 30.00 -3.01 1.15 272.80 -50.0 -48.81 -56.4 1.15 -55.28 311.00 495.50 -60.3 1.50 -58.82 502.50 _ -43.0 1.50 -41.49 -43.50 530.00 -45.0 1.50 -51.1 2.80 -48.34 1368.00 1493.00 -53.6 3.00 -50.56 1733.00 -33.8 3.15 -30.62 4926.00 -67.0 4.95 -62.09 _ _ 25000.00 -3.01 In any 100 kHz bandwidth outside the frequency band in which the intentional radiater was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below the highest level of the fundamental power output. Data Sheet 3 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Antenna Port, Conducted Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Channel 1 Transmitting at 2.41194 GHz M. Seamans Technician: Date: November 28, 2012 Notes: Port Tested: Secondary Test Uncorrected Cable Corrected Limit Frequency Reading Loss Reading MHz dBm dΒ dBm dBm 30.00 -2.91 -50.52 73.00 -51.0 0.45 75.13 -52.6 0.45 -52.15 149.60 -52.3 0.95 -51.36 187.40 _ -60.4 1.05 -59.38 240.00 -60.32 -61.5 1.15 451.50 -37.2 1.50 -35.72 457.00 -51.5 1.50 -49.97 -46.9 1408.00 3.00 -43.85 1660.00 -30.8 3.10 -27.70 4823.00 -59.6 4.91 -54.71 7240.00 -52.6 5.35 -47.22 _ _ 25000.00 -2.91 In any 100 kHz bandwidth outside the frequency band in which the intentional radiater was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below the highest level of the fundamental power output. Data Sheet 1 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Antenna Port, Conducted Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Channel 6 Transmitting at 2.43644 GHz M. Seamans Technician: Date: November 28, 2012 Notes: Port Tested: Secondary Test Uncorrected Cable Corrected Limit Frequency Reading Loss Reading MHz dBm dΒ dBm dBm 30.00 -3.62 -45.37 105.40 -46.4 1.00 211.00 -47.7 1.15 -46.58 275.50 -56.0 1.15 -54.86 476.00 _ -40.6 1.50 -39.10 481.50 -54.8 -53.26 1.50 1451.00 3.00 -40.88 -43.9 1695.00 -30.4 3.15 -27.22 4874.00 4.95 -60.85 -65.8 _ _ 25000.00 -3.62 In any 100 kHz bandwidth outside the frequency band in which the intentional radiater was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below the highest level of the fundamental power output. Data Sheet 2 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Antenna Port, Conducted Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Channel 11 Transmitting at 2.46214 GHz M. Seamans Technician: Date: November 28, 2012 Notes: Port Tested: Secondary Test Uncorrected Cable Corrected Limit Frequency Reading Loss Reading MHz dBm dΒ dBm dBm 30.00 -3.12 1.15 272.80 -50.0 -48.81 -56.4 1.15 -55.28 311.00 495.50 -60.3 1.50 -58.82 502.50 _ -43.0 1.50 -41.49 -43.50 530.00 -45.0 1.50 -51.1 2.80 -48.34 1368.00 1493.00 -53.6 3.00 -50.56 1733.00 -33.8 3.15 -30.62 4926.00 -67.0 4.95 -62.09 _ _ 25000.00 -3.12 In any 100 kHz bandwidth outside the frequency band in which the intentional radiater was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below the highest level of the fundamental power output. Data Sheet 3 of 3 R-5650N-1

Test Photograph(s)
Antenna Port, Peak Power Spectral Density
FCC Part 15, Subpart C, Section 15.247(e)
RSS-210, Section A8.2(b)

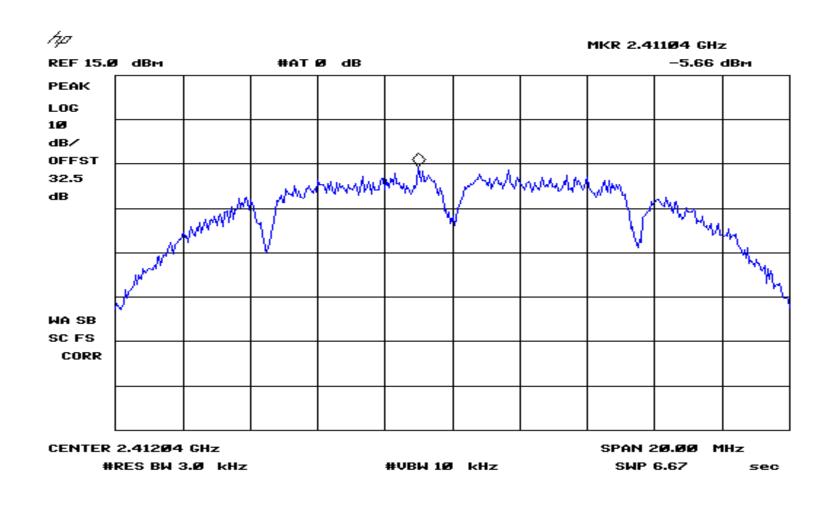
Test Photograph(s) Antenna Port, Peak Power Spectral Density



EUT Configuration

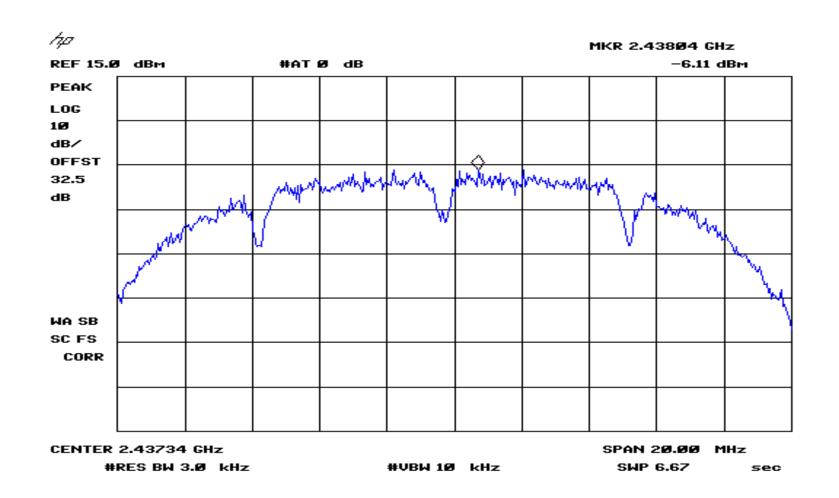
Antenna Port, Peak Power Spectral Density FCC Part 15, Subpart C, Section 15.247(e) RSS-210, Section A8.2(b) Test Data

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Power Density Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 Serial No: N/A T. Hannemann Technician: FCC Part 15. Subpart C Test Specification: Date: 1/24/2013 Paragraph: 15.247(e) Operating Mode: Transmitting Port Tested: Primary Channel 1 Transmitting at 2.41194 GHz Power Density: -5.66 dBm Notes:



Data Sheet 1 of 3 R-5650N-1

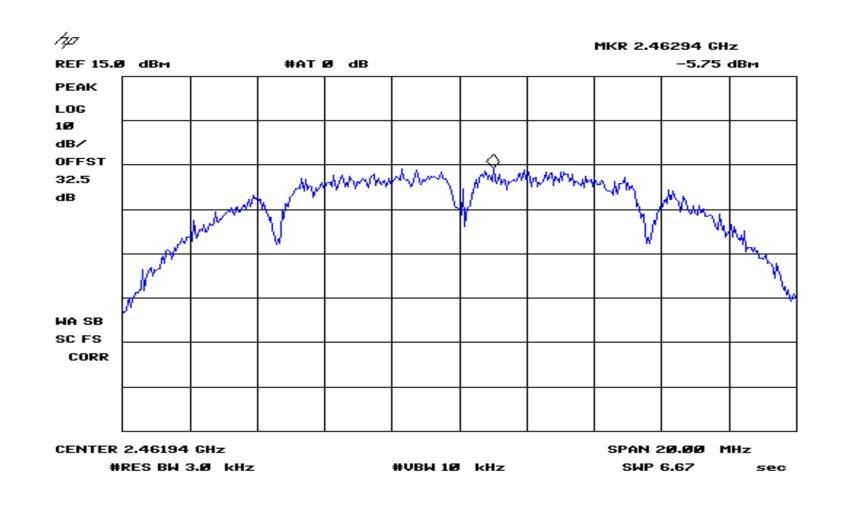
RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Power Density Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 Serial No: N/A T. Hannemann Technician: FCC Part 15. Subpart C Test Specification: Date: 1/24/2013 Paragraph: 15.247(e) Operating Mode: Transmitting Port Tested: Primary Channel 6 Transmitting at 2.43644 GHz Power Density: -6.11 dBm Notes:



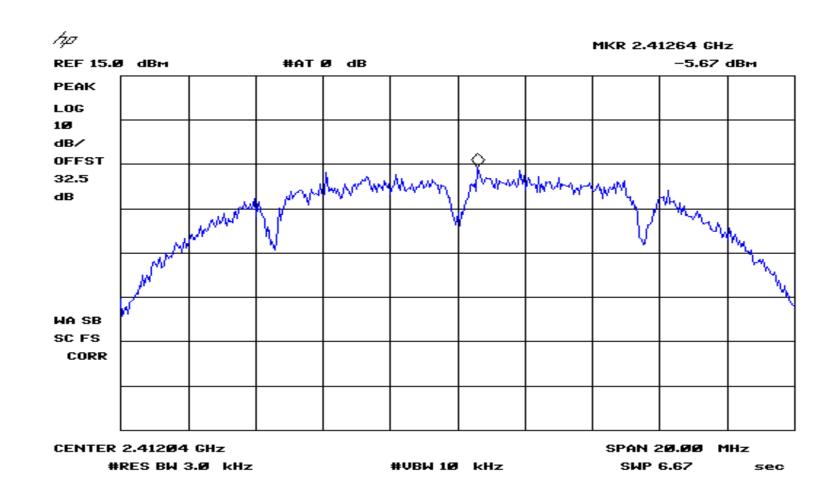
Data Sheet 2 of 3

R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Power Density Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 Serial No: N/A T. Hannemann Technician: FCC Part 15. Subpart C Test Specification: Date: 1/24/2013 Paragraph: 15.247(e) Operating Mode: Transmitting Port Tested: Primary Channel 11 Transmitting at 2.46214 GHz Power Density: -5.75 dBm Notes:



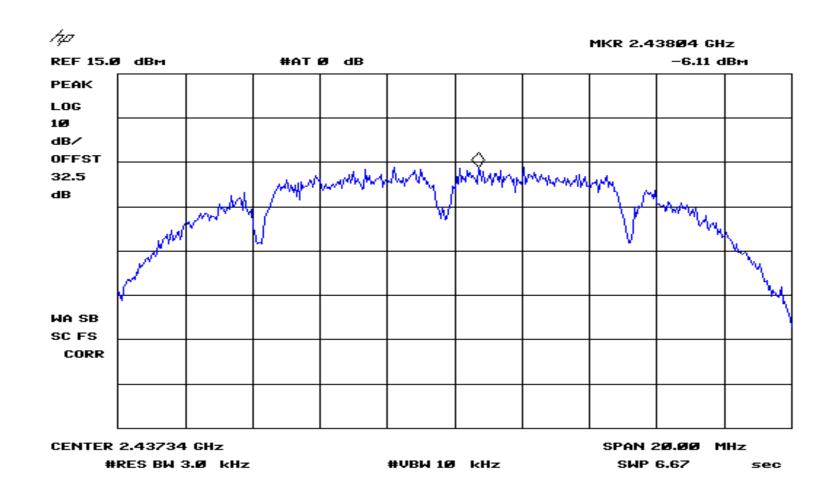
RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Power Density Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 Serial No: N/A Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 1/24/2013 Paragraph: 15.247(e) Operating Mode: Transmitting Port Tested: Secondary Channel 1 Transmitting at 2.41194 GHz Power Density: -5.67 dBm Notes:



Data Sheet 1 of 3

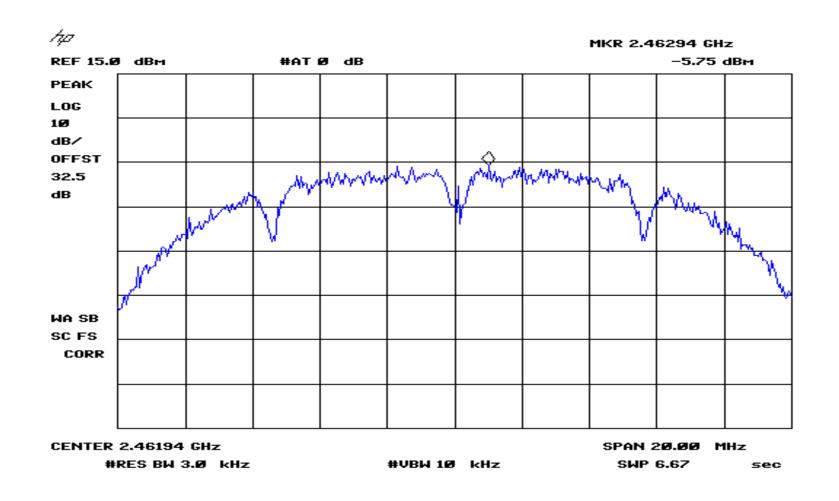
R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Power Density Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 Serial No: N/A T. Hannemann Technician: FCC Part 15. Subpart C Test Specification: Date: 1/24/2013 Paragraph: 15.247(e) Operating Mode: Transmitting Channel 6 Transmitting at 2.43644 GHz Power Density: -6.11 dBm Notes: Port Tested: Secondary



Data Sheet 2 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Power Density Elevator Display Unit (Media Player) with LVDS Display R-5650N-1 Customer: Captivate Network Test Sample: Job No: Model No: EDU-700 Serial No: N/A Technician: T. Hannemann FCC Part 15. Subpart C Test Specification: Date: 11/28/2012 Paragraph: 15.247(e) Operating Mode: Transmitting Channel 11 Transmitting at 2.46214 GHz Power Density: -6.75 dBm Notes: Port Tested: Secondary



Data Sheet 3 of 3

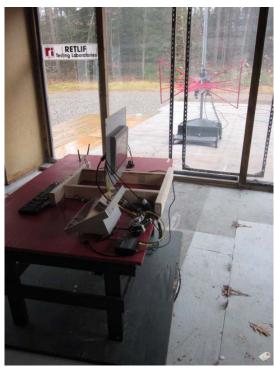
R-5650N-1

Test Photograph(s)
FCC Part 15, Subpart C, Section 15.247(d)/15.205(a)/15.209(a)
RSS-210, Section A8.5/RSS-Gen, Section 7.2.2/RSS-Gen, Section 6.1
Spurious Radiated Emissions, 30 MHz to 25 GHz

Test Photograph(s) Spurious Radiated Emissions

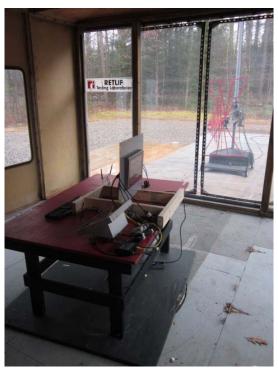


EUT Configuration



Horizontal Antenna Polarization, 30 MHz to 1 GHz

Test Photograph(s) Spurious Radiated Emissions



Vertical Antenna Polarization, 30 MHz to 1 GHz

Test Photograph(s) Spurious Radiated Emissions



Horizontal Antenna Polarization, 1 to 18 GHz

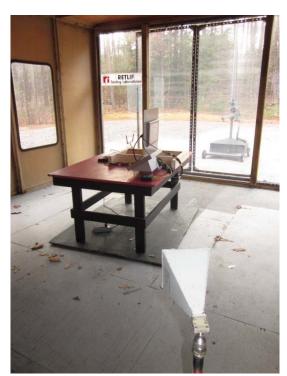


Vertical Antenna Polarization, 1 to 18 GHz

Test Photograph(s) Radiated Emissions



Horizontal Antenna Polarization, 18 to 25 GHz



Vertical Antenna Polarization, 18 to 25 GHz

FCC Part 15, Subpart C, Section 15.247(d)/15.205(a)/15.209(a)
RSS-210, Section A8.5/RSS-Gen, Section 7.2.2/RSS-Gen, Section 6.1
Spurious Radiated Emissions, 30 MHz to 25 GHz
Test Data

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Transmitter Spurious Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Transmitting at 2.41296 GHz M. Seamans Technician: Date: November 28, 2012 Notes: Test Distance: 3 Meters Detector: Below 1 GHz Quasi-Peak and above 1 GHz Average Test Antenna Turntable Uncorrected Correction Corrected Limit Frequency Position Position Reading Factor Reading at 3 Meters MHz (H/V) - Height Degrees dBuV dΒ dBuV/m dBuV/m 30.00 40.0 _ 40.0 88.00 43.5 88.00 216.00 -43.5 46.0 216.00 960.00 _ 46.0 54.0 960.00 _ 990.00 V-1m 0.12 29.15 29.27 1050.00 V-1m 2.7 9.7 7.0 ** 1500.00 V-1m 5.6 9.9 15.5 1683.00 V-1m 180.0 44.23 -6.20 38.03 4824.00 V-1m 180.0 51.75 -13.5038.25 V-1m 32.90 -2.64 30.26 7233.42 9644.56 V-1m -2.27 32.13 34.40 -25000.00 54.0 *Measurement of noise floor at harmonic frequencies. No Harmonic emissions or spurious emissions observed. *Measurement of noise floor in restricted band. No EUT emissions observed. Data Sheet 1 of 1 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Transmitter Spurious Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247 Operating Mode: Transmitting at 2.439925 GHz Receiving M. Seamans Technician: Date: November 28, 2012 Notes: Test Distance: 3 Meters Test Antenna Turntable Uncorrected Correction Corrected Limit Frequency Position Position Reading Factor Reading at 3 Meters MHz (H/V) - Height Degrees dBuV dΒ dBuV/m dBuV/m 30.00 40.0 _ 40.0 88.00 43.5 88.00 216.00 _ -43.5 46.0 216.00 960.00 _ 46.0 54.0 960.00 _ 990.00 V-1m 0.12 29.15 29.27 1050.00 V-1m 7.0 2.7 9.7 ** 1500.00 V-1m 5.6 9.9 15.5 4876.08 V-1m 33.62 -13.50 22.82 7314.12 V-1m 33.30 -2.21 31.09 9752.16 V-1m 34.40 32.19 -2.22 25000.00 54.0 *Measurement of noise floor at harmonic frequencies. No Harmonic emissions or spurious emissions observed. *Measurement of noise floor in restricted band. No EUT emissions observed. Data Sheet 2 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Transmitter Spurious Emissions 30 MHz - 25 GHz R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display Model No. EDU-700 Serial No. N/A FCC Part 15 Subpart C Test Specification: 15.247 Operating Mode: Transmitting at 2.48025 GHz Receiving M. Seamans Technician: Date: November 28, 2012 Notes: Test Distance: 3 Meters Test Antenna Turntable Correction Corrected Limit Position Frequency Position Reading Factor Reading at 3 Meters MHz (H/V) - Height Degrees dBuV dΒ dBuV/m dBuV/m 30.00 40.0 _ 40.0 88.00 43.5 88.00 216.00 _ -43.5 46.0 216.00 960.00 _ 46.0 54.0 960.00 _ 990.00 V-1m 0.12 29.15 29.27 1050.00 V-1m 7.0 2.7 9.7 ** 1500.00 V-1m 5.6 9.9 15.5 4922.08 V-1m 35.80 -13.67 22.13 7383.12 V-1m 32.90 -2.21 30.69 9844.16 V-1m -1.97 31.73 33.70 25000.00 54.0 *Measurement of noise floor at harmonic frequencies. No Harmonic emissions or spurious emissions observed. *Measurement of noise floor in restricted band. No EUT emissions observed. Data Sheet 3 of 3 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Test Method: Band-edge Compliance R-5650N-1 Customer Captivate Network Job No. Elevator Display Unit (Media Player) with LVDS Display **Test Sample** Model No. EDU-700 N/A Serial No. FCC Part 15 Subpart C Test Specification: 15.247(d) Operating Mode: Continuously Transmitting at band edge Technician: M. Seamans Date: November 28, 2012 Notes: Test Distance: 3 Meters Average Detector Test Antenna Turntable Uncorrected Correction Corrected Limit at 3 Meters Frequency Position Position Reading Factor Reading MHz (H/V) - Height Degrees dBuVdΒ dBuV/m dBuV/m 2400.00 V-1m 180.0 45.16 -5.19 39.97 54.0 -4.36 2483.50 V-1m 38.60 34.24 54.0 0.0 Measurement represents the noise floor of the measurement instrument, as no EUT emissions were observed. Data Sheet 1 of 1 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Receiver Spurious Emissions 30 MHz - 25 GHz Test Method: R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display N/A Model No. Serial No. Test Specification: RSS-Gen Para. 6.1 Receiving signal at 2.41296 GHz Operating Mode: Date: November 28, 2012 Technician: M. Seamans Notes: Test Distance: 3 Meters Turntable Uncorrected Correction Corrected Limit Test Antenna Position Position Reading Reading at 3 Meters Frequency Factor MHz (H/V) - Height Degrees dBuV dB dBuV/m dBuV/m 40.0 30.00 35.00 V-1m 0.0 6.65 16.24 22.89 40.0 88.00 --43.5 88.00 4.82 110.00 V-1m 0.0 10.03 14.85 195.00 H-1m 0.0 11.21 12.40 23.61 205.00 H-1m 0.0 6.43 12.32 18.75 216.00 43.5 216.00 46.0 600.00 V-1m 0.0 -0.22 24.18 24.11 960.00 46.0 54.0 960.00 H-1m 995.00 0.0 29.15 29.27 0.12 25000.00 54.0 No emissions were observed above the noise floor of the test equipment which was a minimum of 10 dB below the specified limits throughout the frequency range. *This emission is not from the EUT. It is a measurement of minumum system sensitivity (noise Data Sheet 1 of 1 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Receiver Spurious Emissions 30 MHz - 25 GHz Test Method: R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display N/A Model No. Serial No. Test Specification: RSS-Gen Para. 6.1 Receiving signal at 2.46214 GHz Operating Mode: Date: November 28, 2012 Technician: M. Seamans Notes: Test Distance: 3 Meters Turntable Uncorrected Correction Corrected Limit Test Antenna Position Position Reading Reading at 3 Meters Frequency Factor MHz (H/V) - Height Degrees dBuV dB dBuV/m dBuV/m 40.0 30.00 35.00 V-1m 0.0 6.65 16.24 22.89 40.0 88.00 --43.5 88.00 4.82 110.00 V-1m 0.0 10.03 14.85 195.00 H-1m 0.0 11.21 12.40 23.61 205.00 H-1m 0.0 6.43 12.32 18.75 216.00 43.5 216.00 46.0 600.00 V-1m 0.0 -0.22 24.18 24.11 960.00 46.0 54.0 960.00 995.00 H-1m 0.0 29.15 29.27 0.12 25000.00 54.0 No emissions were observed above the noise floor of the test equipment which was a minimum of 10 dB below the specified limits throughout the frequency range. *This emission is not from the EUT. It is a measurement of minumum system sensitivity (noise Data Sheet 1 of 1 R-5650N-1

RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Receiver Spurious Emissions 30 MHz - 25 GHz Test Method: R-5650N-1 Customer Captivate Network Job No. Test Sample Elevator Display Unit (Media Player) with LVDS Display N/A Model No. Serial No. Test Specification: RSS-Gen Para. 6.1 Receiving signal at 2.43644 GHz Operating Mode: Date: November 28, 2012 Technician: M. Seamans Notes: Test Distance: 3 Meters Turntable Uncorrected Correction Corrected Limit Test Antenna Position Position Reading Reading at 3 Meters Frequency Factor MHz (H/V) - Height Degrees dBuV dB dBuV/m dBuV/m 40.0 30.00 35.00 V-1m 0.0 6.65 16.24 22.89 40.0 88.00 --43.5 88.00 4.82 110.00 V-1m 0.0 10.03 14.85 195.00 H-1m 0.0 11.21 12.40 23.61 205.00 H-1m 0.0 6.43 12.32 18.75 216.00 43.5 216.00 46.0 600.00 V-1m 0.0 -0.22 24.18 24.11 960.00 46.0 54.0 960.00 H-1m 995.00 0.0 29.15 29.27 0.12 25000.00 54.0 No emissions were observed above the noise floor of the test equipment which was a minimum of 10 dB below the specified limits throughout the frequency range. *This emission is not from the EUT. It is a measurement of minumum system sensitivity (noise Data Sheet 1 of 1 R-5650N-1

Test Photograph(s)
FCC Part 15, Subpart C, Section 15.207(a)
RSS-GEN, Paragraph 7.2.4
Conducted Emissions, Power Leads, 150 kHz to 30 MHz

Test Photograph(s) Conducted Emissions



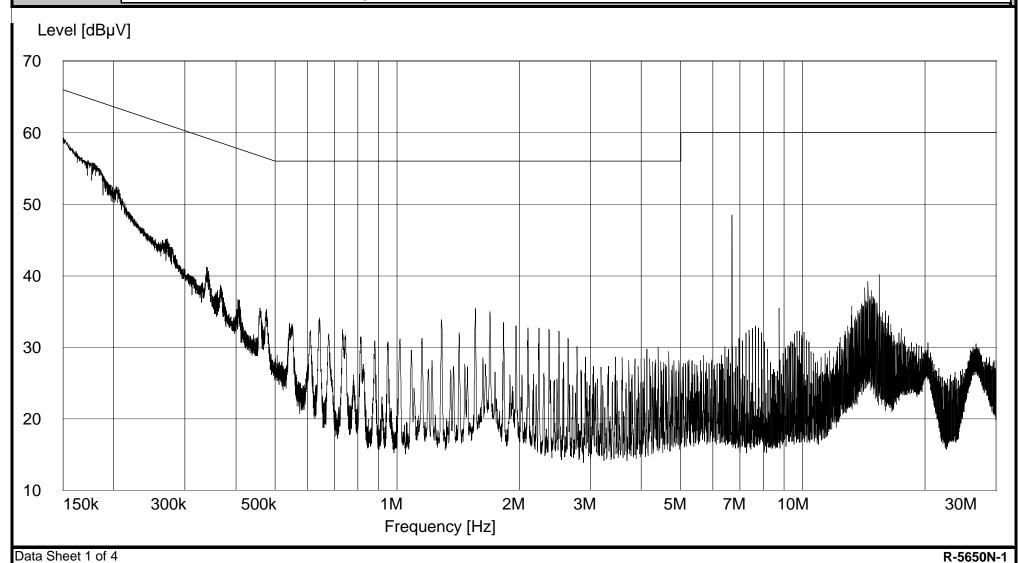
EUT Configuration



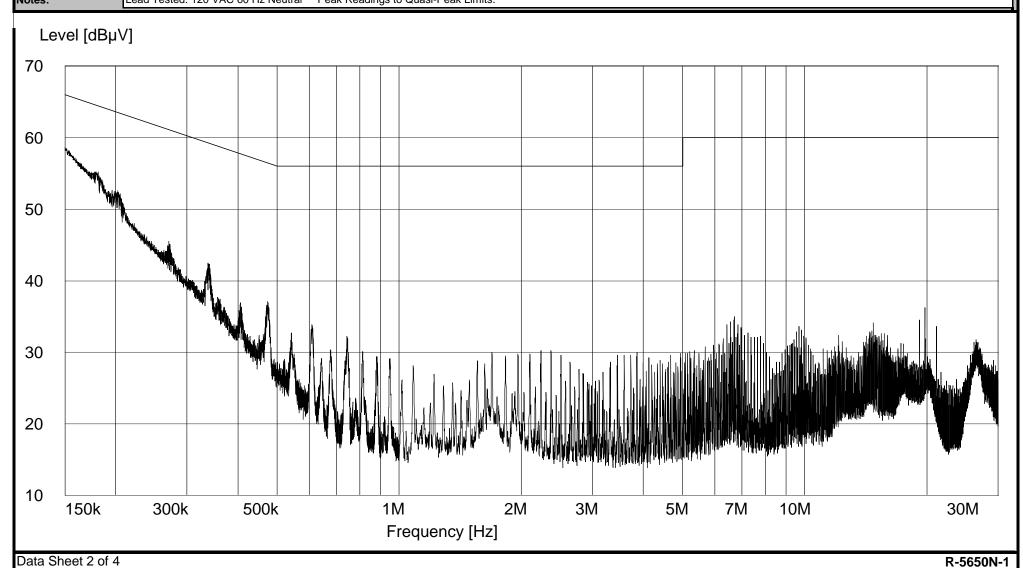
Test Setup

Conducted Emissions, Power Leads, 150 kHz to 30 MHz FCC Part 15, Subpart C, Section 15.207(a) RSS-GEN, Paragraph 7.2.4 Test Data

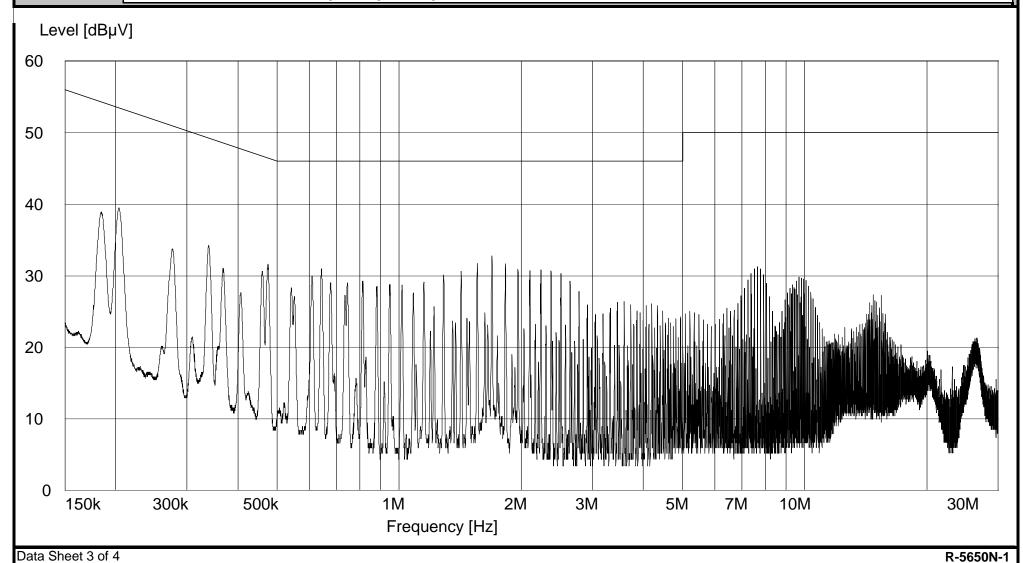
RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Conducted Emissions Test Method: R-5650N-1 Captivate Network Test Sample: Elevator Display Unit (Media Player) with LVDS Display Job No: Customer: N/A Model No: EDU-700 Serial No: Technician: M. Seamans FCC Part 15, Subpart C Test Specification: Date: 11/27/2012 Paragraph: 15.207 Operating Mode: Transmitting Notes: Lead Tested: 120 VAC 60 Hz Hot Peak Readings to Quasi-Peak Limits.



RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Conducted Emissions Test Method: R-5650N-1 Captivate Network Elevator Display Unit (Media Player) with LVDS Display Job No: Customer: Test Sample: N/A Model No: EDU-700 Serial No: Technician: M. Seamans FCC Part 15, Subpart C Test Specification: Date: 11/27/2012 Paragraph: 15.207 Operating Mode: Transmitting Notes: Lead Tested: 120 VAC 60 Hz Neutral Peak Readings to Quasi-Peak Limits.



RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Conducted Emissions Test Method: R-5650N-1 Captivate Network Elevator Display Unit (Media Player) with LVDS Display Job No: Customer: Test Sample: Model No: EDU-700 Serial No: N/A Technician: M. Seamans FCC Part 15, Subpart C Test Specification: Date: 11/27/2012 Paragraph: 15.207 Operating Mode: Transmitting Average Readings to Average Limits. Notes: Lead Tested: 120 VAC 60 Hz Hot



RETLIF TESTING LABORATORIES EMISSIONS DATA SHEET Conducted Emissions Test Method: R-5650N-1 Captivate Network Test Sample: Elevator Display Unit (Media Player) with LVDS Display Job No: Customer: N/A Model No: EDU-700 Serial No: Technician: M. Seamans FCC Part 15, Subpart C Date: 11/27/2012 Test Specification: Paragraph: 15.207 Operating Mode: Transmitting Average Readings to Average Limits. Notes: Lead Tested: 120 VAC 60 Hz Neutral

