

Alcon Laboratories, Inc.

Constellation Vision System (NGVS)

January 17, 2008

Report No. ALCO0074.1 Rev. 1

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: January 17, 2008

Alcon Laboratories, Inc.

Model: Constellation Vision System (NGVS)

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247(DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass
Radiated Emissions	FCC 15.109(g) (CISPR 22:1997):2006 Class A	ANSI C63.4:2003	Pass
AC Power Line Conducted Emissions	FCC 15.207:2006	ANSI C63.4:203	Pass

Modifications made to the product

See the Modifications section of this report

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
41 Tesla Ave., Irvine, CA 92618

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

Approved By:

Ethan Schoonover, Sultan Lab Manager



NVLAP Lab Code: 200676-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

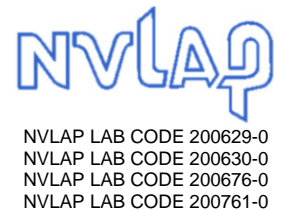
Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
01	Changed the Doctor Filter serial number to the following: 0502860502X	2-4-08	8

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.



CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



TÜV Product Service: Included in TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0604C.



TÜV Rheinland: Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.



NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294.*)



BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.



GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



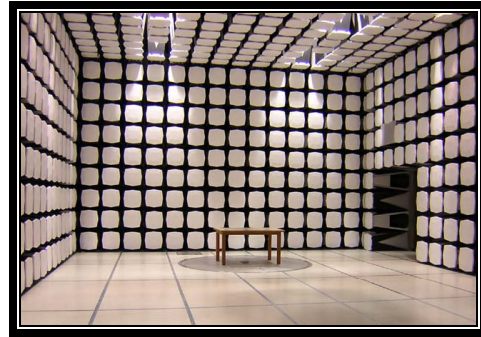
MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

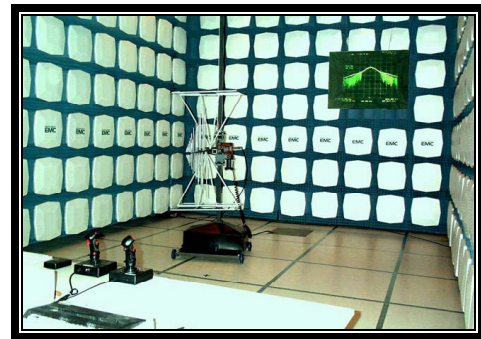
For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/scope.asp>



**California – Orange County Facility
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility
Labs EV01 – EV11**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility
Labs SU01 – SU07**

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	Alcon Laboratories, Inc.
Address:	15800 Alton Parkway
City, State, Zip:	Irvine, CA 92618-3818
Test Requested By:	Thai Lam
Model:	Constellation Vision System (NGVS)
First Date of Test:	November 20, 2007
Last Date of Test:	December 13, 2007
Receipt Date of Samples:	November 20, 2007
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

WiFi Radio operating in the 2.480-2.4835 MHz band.

Testing Objective:

To demonstrate compliance to FCC requirements in support of a Class II Permissive Change.

CONFIGURATION 1 ALCO0074**Software/Firmware Running during test**

Description	Version
Constellation Software	7.11.1.16

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Constellation Vision System	Alcon	8065751145/(212-0001-502)	Beta #11

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Constellation Footswitch	Alcon	8065750977	0702831001X
PurePoint Footswitch	Alcon	IPX8/562-1360-501	None
Handpiece Infiniti Ultrasound	Alcon	8065750121	0702679618X
Constellation Fragmentation Hand piece	Alcon	8065750888	Beta #02
Laser Indirect Ophthalmoscope	Alcon	8065751050	0703245401X
Diathermy	Alcon	8065807901	None
Barcode Scanner	Metrologic Instruments	MS9544	None
Power Generator 150PSI	Porter Cable Corp	C2006	2767056720
Doctor Filter	Alcon	8065750260	0502860502X
Doctor Filter	Alcon	8065750260	0601862302X

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Cable	No	3.6m	No	Constellation Vision System	AC Mains
Doctor Filter (2)	No	10m	No	Doctor Filter	Constellation Vision System
Composite Video Cable (2)	No	3.4m	No	Constellation Vision System	Unterminated
S-Video Cable (2)	No	1.9m	No	Constellation Vision System	Unterminated
Video Overlay Cable	No	7.5m	No	Constellation Vision System	Unterminated
VGA	No	1.7m	No	Constellation Vision System	Unterminated
Ethernet Cable	Yes	4.1m	No	Constellation Vision System	Remote Laptop
Laser Tether Cable	No	1.9m	No	Constellation Vision System	Unterminated
Audio Cable/MP3	No	1.9m	No	Constellation Vision System	Unterminated
Ethernet Cable	Yes	4.1m	No	Constellation Vision System	Unterminated
Foot Switch Cable	No	4.5m	No	Constellation Vision System	PurePoint Footswitch
LIO Cable	Yes	6.7m	No	Constellation Vision System	Laser Indirect Ophthalmoscope
Foot Switch Cable	Yes	5.5m	No	Constellation Vision System	Constellation Footswitch
Scanner Cable	No	.7m	No	Barcode Scanner	Constellation Vision System
Diathermy Cable	No	3.5m	No	Constellation Vision System	Diathermy
Hand piece Infiniti Ultrasound Cable	No	2m	No	Hand piece Infiniti Ultrasound	Constellation Vision System
Constellation Fragmentation Hand piece Cable	No	2m	No	Constellation Fragmentation Hand piece	Constellation Vision System
Serial Cable	No	1.9m	No	Constellation Vision System	Unterminated
AC Cable	No	30cm	No	Constellation Vision System	AC Mains
AC Cable	No	50cm	No	Constellation Vision System	AC Mains
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	11/20/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	11/26/2007	Radiated Emission	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	12/13/2007	AC Power Line Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing completed.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Standby Mode

MODE USED FOR FINAL DATA

Standby Mode

POWER SETTINGS INVESTIGATED

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	1000 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Biconilog	EMCO	3142	AXK	3/14/2006	24
OC08 cables b,c,d,f			OCB	8/23/2007	13
Pre-Amplifier	Miteq	AM-1551	AOX	8/19/2006	24
Spectrum Analyzer	Agilent	E4443A	AAR	1/18/2007	13

MEASUREMENT BANDWIDTHS

	Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.


MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

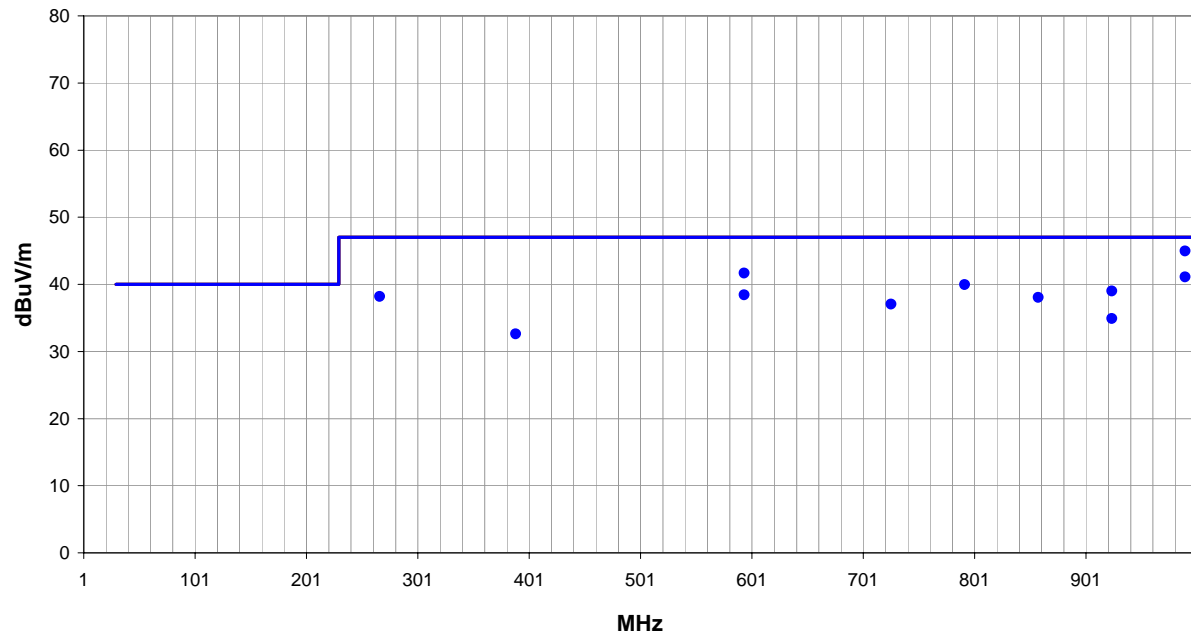
Using the mode of operation and configuration noted within this report, a final radiated emissions test was performed. The frequency range investigated (scanned), is also noted in this report. Radiated emissions measurements were made at the EUT azimuth and antenna height such that the maximum radiated emissions level will be detected. This requires the use of a turntable and an antenna positioner. The preferred method of a continuous azimuth search is utilized for frequency scans of the EUT field strength with both polarities of the measuring antenna. A calibrated, linearly polarized antenna was positioned at the specified distance from the periphery of the EUT.

Tests were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Though specified in the report, the measurement distance shall be 3 meters or 10 meters. At any measurement distance, the antenna height was varied from 1 meter to 4 meters. These height scans apply for both horizontal and vertical polarization, except that for vertical polarization the minimum height of the center of the antenna shall be increased so that the lowest point of the bottom of the antenna clears the ground surface by at least 25 cm.

Work Order:	ALCO0074	Date:	11/26/07		
Project:	None	Temperature:	24.46		
Job Site:	OC08	Humidity:	44.9		
Serial Number:	702723711	Barometric Pres.:	1016.3 mb		
				Tested by:	Jaemi Suh
EUT:	Constellation Vision System (NGVS)				
Configuration:	1				
Customer:	Alcon Laboratories, Inc.				
Attendees:	Thai Lam				
EUT Power:	120V/60Hz				
Operating Mode:	Standby Mode				
Deviations:	No Deviations				
Comments:	None				

Test Specifications	Class A	Test Method
FCC 15.109(g) (CISPR 22:1997):2006		ANSI C63.4:2003

Run #	1	Test Distance (m)	10	Antenna Height(s)	1-4m	Results	Pass
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Freq	Amplitude	Factor	Antenna Height	Azimuth (degrees)	Test Distance	External Attenuation	Polarity/ Transducer Type	Detector	Distance Adjustment	Adjusted	Spec. Limit	Compared to Spec. (dB)
989.997	53.1	-8.1	1.0	254.0	10.0	0.0	Horz	QP	0.0	45.0	47.0	-2.0
594.004	54.4	-12.8	1.5	28.0	10.0	0.0	Horz	QP	0.0	41.6	47.0	-5.4
990.001	49.2	-8.1	1.5	226.0	10.0	0.0	Vert	QP	0.0	41.1	47.0	-5.9
791.999	50.6	-10.6	1.2	257.0	10.0	0.0	Horz	QP	0.0	40.0	47.0	-7.0
924.006	47.6	-8.6	1.0	358.0	10.0	0.0	Horz	QP	0.0	39.0	47.0	-8.0
593.994	51.2	-12.8	3.5	4.0	10.0	0.0	Vert	QP	0.0	38.4	47.0	-8.6
266.757	59.1	-20.9	3.5	178.0	10.0	0.0	Vert	QP	0.0	38.2	47.0	-8.8
857.992	47.6	-9.5	1.0	257.0	10.0	0.0	Horz	QP	0.0	38.1	47.0	-8.9
725.997	48.1	-11.1	1.0	334.0	10.0	0.0	Horz	QP	0.0	37.0	47.0	-10.0
924.006	43.5	-8.6	1.5	327.0	10.0	0.0	Vert	QP	0.0	34.9	47.0	-12.1
388.974	49.2	-16.6	2.7	295.0	10.0	0.0	Vert	QP	0.0	32.6	47.0	-14.4

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Channel 1. Idle Mode. 802.11 b/g On.
Channel 6. Idle Mode. 802.11 b/g On.
Channel 11. Idle Mode. 802.11 b/g On.

MODE USED FOR FINAL DATA

Channel 1. Idle Mode. 802.11 b/g On.
Channel 6. Idle Mode. 802.11 b/g On.
Channel 11. Idle Mode. 802.11 b/g On.

POWER SETTINGS INVESTIGATED

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 26 GHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	7/11/2006	24
Antenna, Horn	EMCO	3160-09	AHN	NCR	0
OC10 SMA cable for 18026 GHz			OCK	7/11/2006	24
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	10/13/2006	24
Antenna, Horn	ETS	3160-08	AHT	NCR	0
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	10/13/2006	24
Antenna, Horn	ETS	3160-07	AHR	NCR	24
OC 10 Cables a, b, c, l Cables			OCO	1/14/2007	13
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	1/14/2007	13
Antenna, Horn	EMCO	3115	AHB	8/31/2007	24
OC10 cables a,b,c,e,f Horn Cables			OCJ	7/23/2007	13
Antenna, Biconilog	EMCO	3142	AXJ	3/14/2006	24
OC10 cables a,b,c,d Bilog			OCH	12/17/2006	13
Pre-Amplifier	Miteq	AM-1616-1000	AOM	12/17/2006	13
Spectrum Analyzer	Agilent	E4446A	AAQ	1/18/2007	13

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.


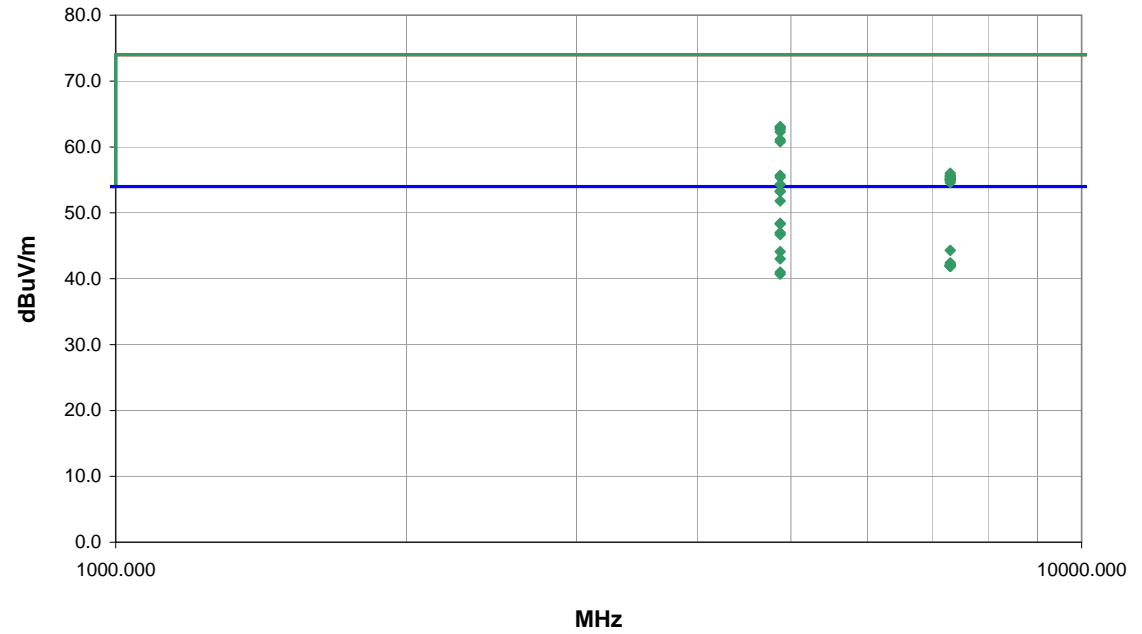
MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION


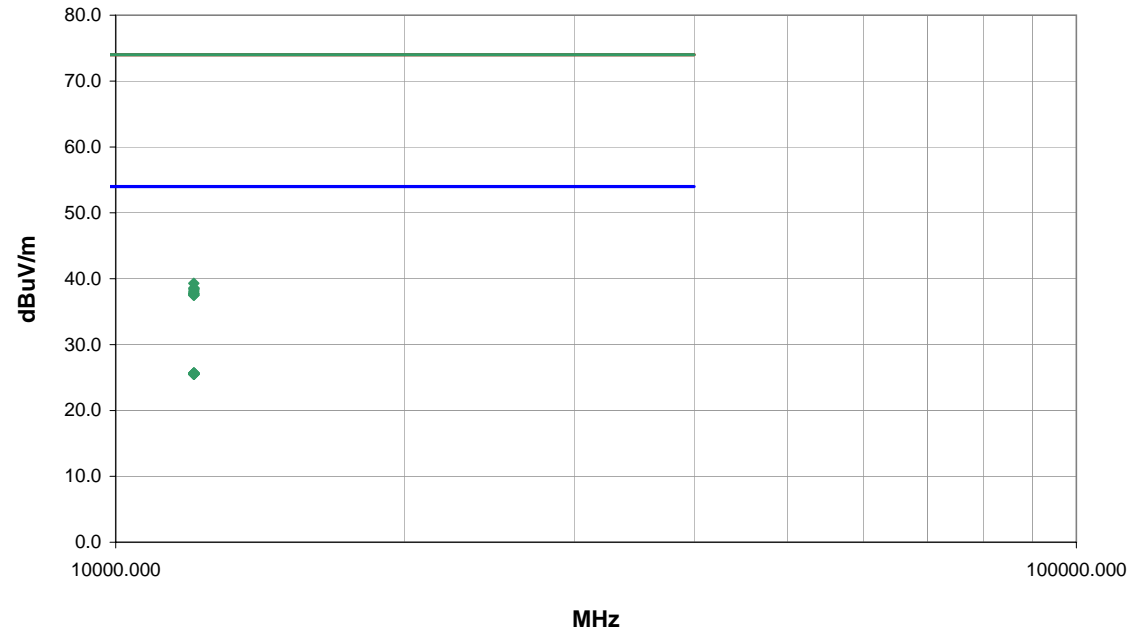
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST		SPURIOUS RADIATED EMISSIONS		PSA 2007.05.07									
EMC				EMI 2006.4.26									
EUT: Constellation Vision System (NGVS)		Work Order: ALCO0074											
Serial Number: 0702723711		Date: 11/20/07											
Customer: Alcon Laboratories, Inc.		Temperature: 24.46											
Attendees: Thai Lam		Humidity: 45%											
Project: None		Barometric Pres.: 1016.3 mb											
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC10									
TEST SPECIFICATIONS		Test Method											
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074											
TEST PARAMETERS													
Antenna Height(s) (m)		1 - 4		Test Distance (m)									
				3									
COMMENTS													
Channel 11. Band Edge Measurement at 2483.5 MHz. Data Rates Tested: 1, 6, 11, 36, 54 Mbps.													
EUT OPERATING MODES													
Idle Mode. RFID Radio On. 802.11 b/g On.													
DEVIATIONS FROM TEST STANDARD													
No deviations.													
Run #		13											
Configuration #		1											
Results		Pass											
		Signature											
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.450	25.0	5.5	241.0	1.0	0.0	20.0	V-Horn	AV	0.0	50.5	54.0	-3.5	36 Mbps
2483.463	25.0	5.5	221.0	2.8	0.0	20.0	H-Horn	AV	0.0	50.5	54.0	-3.5	54 Mbps
2483.118	24.9	5.5	235.0	1.0	0.0	20.0	V-Horn	AV	0.0	50.4	54.0	-3.6	1 Mbps
2483.270	24.9	5.5	72.0	1.0	0.0	20.0	V-Horn	AV	0.0	50.4	54.0	-3.6	54 Mbps
2483.473	24.9	5.5	77.0	1.0	0.0	20.0	V-Horn	AV	0.0	50.4	54.0	-3.6	6 Mbps
2483.488	24.9	5.5	359.0	1.4	0.0	20.0	H-Horn	AV	0.0	50.4	54.0	-3.6	1 Mbps
2483.528	24.9	5.5	19.0	2.8	0.0	20.0	H-Horn	AV	0.0	50.4	54.0	-3.6	36 Mbps
2483.582	24.9	5.5	233.0	3.0	0.0	20.0	H-Horn	AV	0.0	50.4	54.0	-3.6	6 Mbps
2483.589	24.9	5.5	42.0	2.9	0.0	20.0	H-Horn	AV	0.0	50.4	54.0	-3.6	11 Mbps
2483.629	24.9	5.5	295.0	1.0	0.0	20.0	V-Horn	AV	0.0	50.4	54.0	-3.6	11 Mbps
2483.323	38.1	5.5	221.0	2.8	0.0	20.0	H-Horn	PK	0.0	63.6	74.0	-10.4	54 Mbps
2483.400	37.9	5.5	72.0	1.0	0.0	20.0	V-Horn	PK	0.0	63.4	74.0	-10.6	54 Mbps
2483.255	37.7	5.5	295.0	1.0	0.0	20.0	V-Horn	PK	0.0	63.2	74.0	-10.8	11 Mbps
2483.615	37.7	5.5	19.0	2.8	0.0	20.0	H-Horn	PK	0.0	63.2	74.0	-10.8	36 Mbps
2483.579	37.6	5.5	77.0	1.0	0.0	20.0	V-Horn	PK	0.0	63.1	74.0	-10.9	6 Mbps
2483.460	37.4	5.5	233.0	3.0	0.0	20.0	H-Horn	PK	0.0	62.9	74.0	-11.1	6 Mbps
2483.706	37.2	5.5	42.0	2.9	0.0	20.0	H-Horn	PK	0.0	62.7	74.0	-11.3	11 Mbps
2483.261	37.1	5.5	241.0	1.0	0.0	20.0	V-Horn	PK	0.0	62.6	74.0	-11.4	36 Mbps
2483.280	37.0	5.5	235.0	1.0	0.0	20.0	V-Horn	PK	0.0	62.5	74.0	-11.5	1 Mbps
2483.441	37.0	5.5	359.0	1.4	0.0	20.0	H-Horn	PK	0.0	62.5	74.0	-11.5	1 Mbps

NORTHWEST		SPURIOUS RADIATED EMISSIONS		PSA 2007.05.07 EMI 2006.4.26																																																																																																																																																																																																																																																																																																							
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Serial Number: 0702723711			Date: 12/11/07																																																																																																																																																																																																																																																																																																								
Customer: Alcon Laboratories, Inc.			Temperature: 22.8																																																																																																																																																																																																																																																																																																								
Attendees: Thai Lam			Humidity: 26%																																																																																																																																																																																																																																																																																																								
Project: None			Barometric Pres.: 1017.4																																																																																																																																																																																																																																																																																																								
Tested by: Jaemi Suh			Power: 120VAC/60Hz																																																																																																																																																																																																																																																																																																								
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<table border="1"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>4874.000</td><td>36.9</td><td>14.9</td><td>183.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>51.8</td><td>54.0</td><td>-2.2</td><td>1 Mbps</td></tr> <tr><td>4874.000</td><td>33.5</td><td>14.9</td><td>172.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>48.4</td><td>54.0</td><td>-5.6</td><td>54 Mbps</td></tr> <tr><td>4874.000</td><td>33.4</td><td>14.9</td><td>138.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>48.3</td><td>54.0</td><td>-5.7</td><td>36 Mbps</td></tr> <tr><td>4874.000</td><td>32.1</td><td>14.9</td><td>120.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>47.0</td><td>54.0</td><td>-7.0</td><td>6 Mbps</td></tr> <tr><td>4874.000</td><td>31.8</td><td>14.9</td><td>168.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>46.7</td><td>54.0</td><td>-7.3</td><td>54 Mbps</td></tr> <tr><td>7311.000</td><td>27.2</td><td>17.1</td><td>60.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>44.3</td><td>54.0</td><td>-9.7</td><td>1 Mbps</td></tr> <tr><td>4874.000</td><td>29.2</td><td>14.9</td><td>158.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>44.1</td><td>54.0</td><td>-9.9</td><td>6 Mbps</td></tr> <tr><td>4874.000</td><td>48.2</td><td>14.9</td><td>217.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>63.1</td><td>74.0</td><td>-10.9</td><td>11 Mbps</td></tr> <tr><td>4874.000</td><td>28.1</td><td>14.9</td><td>147.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>43.0</td><td>54.0</td><td>-11.0</td><td>36 Mbps</td></tr> <tr><td>4874.000</td><td>48.0</td><td>14.9</td><td>120.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>62.9</td><td>74.0</td><td>-11.1</td><td>6 Mbps</td></tr> <tr><td>4874.000</td><td>47.8</td><td>14.9</td><td>138.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>62.7</td><td>74.0</td><td>-11.3</td><td>36 Mbps</td></tr> <tr><td>7311.000</td><td>25.3</td><td>17.1</td><td>249.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>42.4</td><td>54.0</td><td>-11.6</td><td>36 Mbps</td></tr> <tr><td>4874.000</td><td>47.4</td><td>14.9</td><td>183.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>62.3</td><td>74.0</td><td>-11.7</td><td>1 Mbps</td></tr> <tr><td>7311.000</td><td>25.0</td><td>17.1</td><td>197.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>42.1</td><td>54.0</td><td>-11.9</td><td>6 Mbps</td></tr> <tr><td>7311.000</td><td>25.0</td><td>17.1</td><td>117.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>42.1</td><td>54.0</td><td>-11.9</td><td>11 Mbps</td></tr> <tr><td>7310.571</td><td>24.9</td><td>17.1</td><td>155.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>42.0</td><td>54.0</td><td>-12.0</td><td>54 Mbps</td></tr> <tr><td>7311.000</td><td>24.9</td><td>17.1</td><td>249.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>42.0</td><td>54.0</td><td>-12.0</td><td>36 Mbps</td></tr> <tr><td>7311.000</td><td>24.8</td><td>17.1</td><td>182.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>6 Mbps</td></tr> <tr><td>7311.000</td><td>24.8</td><td>17.1</td><td>185.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>1 Mbps</td></tr> <tr><td>7311.000</td><td>24.8</td><td>17.1</td><td>145.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>11 Mbps</td></tr> </tbody> </table>						Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	4874.000	36.9	14.9	183.0	1.2	3.0	0.0	V-Horn	AV	0.0	51.8	54.0	-2.2	1 Mbps	4874.000	33.5	14.9	172.0	1.5	3.0	0.0	H-Horn	AV	0.0	48.4	54.0	-5.6	54 Mbps	4874.000	33.4	14.9	138.0	1.1	3.0	0.0	V-Horn	AV	0.0	48.3	54.0	-5.7	36 Mbps	4874.000	32.1	14.9	120.0	1.2	3.0	0.0	V-Horn	AV	0.0	47.0	54.0	-7.0	6 Mbps	4874.000	31.8	14.9	168.0	1.5	3.0	0.0	V-Horn	AV	0.0	46.7	54.0	-7.3	54 Mbps	7311.000	27.2	17.1	60.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.3	54.0	-9.7	1 Mbps	4874.000	29.2	14.9	158.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.1	54.0	-9.9	6 Mbps	4874.000	48.2	14.9	217.0	1.0	3.0	0.0	V-Horn	PK	0.0	63.1	74.0	-10.9	11 Mbps	4874.000	28.1	14.9	147.0	1.1	3.0	0.0	H-Horn	AV	0.0	43.0	54.0	-11.0	36 Mbps	4874.000	48.0	14.9	120.0	1.2	3.0	0.0	V-Horn	PK	0.0	62.9	74.0	-11.1	6 Mbps	4874.000	47.8	14.9	138.0	1.1	3.0	0.0	V-Horn	PK	0.0	62.7	74.0	-11.3	36 Mbps	7311.000	25.3	17.1	249.0	1.1	3.0	0.0	H-Horn	AV	0.0	42.4	54.0	-11.6	36 Mbps	4874.000	47.4	14.9	183.0	1.2	3.0	0.0	V-Horn	PK	0.0	62.3	74.0	-11.7	1 Mbps	7311.000	25.0	17.1	197.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.1	54.0	-11.9	6 Mbps	7311.000	25.0	17.1	117.0	1.2	3.0	0.0	H-Horn	AV	0.0	42.1	54.0	-11.9	11 Mbps	7310.571	24.9	17.1	155.0	1.0	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	54 Mbps	7311.000	24.9	17.1	249.0	1.1	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	36 Mbps	7311.000	24.8	17.1	182.0	1.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	6 Mbps	7311.000	24.8	17.1	185.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	1 Mbps	7311.000	24.8	17.1	145.0	1.2	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	11 Mbps
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments																																																																																																																																																																																																																																																																																														
4874.000	36.9	14.9	183.0	1.2	3.0	0.0	V-Horn	AV	0.0	51.8	54.0	-2.2	1 Mbps																																																																																																																																																																																																																																																																																														
4874.000	33.5	14.9	172.0	1.5	3.0	0.0	H-Horn	AV	0.0	48.4	54.0	-5.6	54 Mbps																																																																																																																																																																																																																																																																																														
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4874.000	31.8	14.9	168.0	1.5	3.0	0.0	V-Horn	AV	0.0	46.7	54.0	-7.3	54 Mbps																																																																																																																																																																																																																																																																																														
7311.000	27.2	17.1	60.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.3	54.0	-9.7	1 Mbps																																																																																																																																																																																																																																																																																														
4874.000	29.2	14.9	158.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.1	54.0	-9.9	6 Mbps																																																																																																																																																																																																																																																																																														
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4874.000	28.1	14.9	147.0	1.1	3.0	0.0	H-Horn	AV	0.0	43.0	54.0	-11.0	36 Mbps																																																																																																																																																																																																																																																																																														
4874.000	48.0	14.9	120.0	1.2	3.0	0.0	V-Horn	PK	0.0	62.9	74.0	-11.1	6 Mbps																																																																																																																																																																																																																																																																																														
4874.000	47.8	14.9	138.0	1.1	3.0	0.0	V-Horn	PK	0.0	62.7	74.0	-11.3	36 Mbps																																																																																																																																																																																																																																																																																														
7311.000	25.3	17.1	249.0	1.1	3.0	0.0	H-Horn	AV	0.0	42.4	54.0	-11.6	36 Mbps																																																																																																																																																																																																																																																																																														
4874.000	47.4	14.9	183.0	1.2	3.0	0.0	V-Horn	PK	0.0	62.3	74.0	-11.7	1 Mbps																																																																																																																																																																																																																																																																																														
7311.000	25.0	17.1	197.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.1	54.0	-11.9	6 Mbps																																																																																																																																																																																																																																																																																														
7311.000	25.0	17.1	117.0	1.2	3.0	0.0	H-Horn	AV	0.0	42.1	54.0	-11.9	11 Mbps																																																																																																																																																																																																																																																																																														
7310.571	24.9	17.1	155.0	1.0	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	54 Mbps																																																																																																																																																																																																																																																																																														
7311.000	24.9	17.1	249.0	1.1	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	36 Mbps																																																																																																																																																																																																																																																																																														
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NORTHWEST		PSA 2007.05.07 EMI 2006.4.26											
EMC		SPURIOUS RADIATED EMISSIONS											
EUT: Constellation Vision System (NGVS)		Work Order: ALCO0074											
Serial Number: 0702723711		Date: 12/11/07											
Customer: Alcon Laboratories, Inc.		Temperature: 24.46											
Attendees: Thai Lam		Humidity: 45%											
Project: None		Barometric Pres.: 1016.3 mb											
Tested by: Jaemi Suh		Power: 120VAC/60Hz											
		Job Site: OC10											
TEST SPECIFICATIONS		Test Method											
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074											
TEST PARAMETERS													
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3										
COMMENTS													
Channel 6. 1, 11, 6, 36, 54 Mbps.													
EUT OPERATING MODES													
Idle Mode. RFID Radio On. 802.11 b/g On.													
DEVIATIONS FROM TEST STANDARD													
No deviations.													
Run #	18	 Signature											
Configuration #	1												
Results	Pass												
MHz													
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
12182.070	34.4	-8.5	264.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.9	54.0	-28.1	1 Mbps
12183.550	34.4	-8.5	150.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.9	54.0	-28.1	1 Mbps
12182.350	34.3	-8.5	110.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.8	54.0	-28.2	6 Mbps
12184.080	34.3	-8.5	303.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.8	54.0	-28.2	11 Mbps
12184.870	34.3	-8.5	61.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.8	54.0	-28.2	11 Mbps
12183.030	34.2	-8.5	282.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.7	54.0	-28.3	54 Mbps
12183.710	34.2	-8.5	72.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.7	54.0	-28.3	6 Mbps
12184.310	34.2	-8.5	351.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.7	54.0	-28.3	36 Mbps
12184.160	34.1	-8.5	134.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.6	54.0	-28.4	54 Mbps
12184.640	34.1	-8.5	228.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.6	54.0	-28.4	36 Mbps
12185.310	47.1	-8.5	61.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.6	74.0	-35.4	11 Mbps
12185.570	46.9	-8.5	282.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.4	74.0	-35.6	54 Mbps
12184.340	46.8	-8.5	228.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.3	74.0	-35.7	36 Mbps
12185.110	46.8	-8.5	150.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.3	74.0	-35.7	1 Mbps
12186.380	46.8	-8.5	303.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.3	74.0	-35.7	11 Mbps
12185.270	46.7	-8.5	264.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.2	74.0	-35.8	1 Mbps
12183.650	46.6	-8.5	110.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.1	74.0	-35.9	6 Mbps
12185.070	46.5	-8.5	134.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.0	74.0	-36.0	54 Mbps
12185.970	46.4	-8.5	72.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.9	74.0	-36.1	6 Mbps
12184.930	46.3	-8.5	351.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.8	74.0	-36.2	36 Mbps

NORTHWEST		PSA 2007.05.07 EMI 2006.4.26											
EMC		SPURIOUS RADIATED EMISSIONS											
EUT: Constellation Vision System (NGVS)		Work Order: ALCO0074											
Serial Number: 0702723711		Date: 12/11/07											
Customer: Alcon Laboratories, Inc.		Temperature: 24.46											
Attendees: Thai Lam		Humidity: 45%											
Project: None		Barometric Pres.: 1016.3 mb											
Tested by: Jaemi Suh		Power: 120VAC/60Hz											
		Job Site: OC10											
TEST SPECIFICATIONS		Test Method											
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074											
TEST PARAMETERS													
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3										
COMMENTS													
Channel 1. 1, 11, 6, 36, 54 Mbps.													
EUT OPERATING MODES													
Idle Mode. RFID Radio On. 802.11 b/g On.													
DEVIATIONS FROM TEST STANDARD													
No deviations.													
Run #	20	<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">Signature</div> </div>											
Configuration #	1												
Results	Pass												
MHz													
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4873.000	33.8	15.0	160.0	1.4	3.0	0.0	V-Horn	AV	0.0	48.8	54.0	-5.2	1 Mbps
4873.000	33.5	15.0	159.0	1.3	3.0	0.0	V-Horn	AV	0.0	48.5	54.0	-5.5	1 Mbps
4873.000	32.3	15.0	166.0	1.3	3.0	0.0	V-Horn	AV	0.0	47.3	54.0	-6.7	11 Mbps
4873.000	29.6	15.0	174.0	1.7	3.0	0.0	H-Horn	AV	0.0	44.6	54.0	-9.4	11 Mbps
4873.000	48.7	15.0	139.0	1.3	3.0	0.0	V-Horn	PK	0.0	63.7	74.0	-10.3	1 Mbps
4873.000	47.1	15.0	159.0	1.3	3.0	0.0	V-Horn	PK	0.0	62.1	74.0	-11.9	1 Mbps
4873.000	45.8	15.0	166.0	1.3	3.0	0.0	V-Horn	PK	0.0	60.8	74.0	-13.2	11 Mbps
4873.000	24.2	15.0	234.0	1.3	3.0	0.0	V-Horn	AV	0.0	39.2	54.0	-14.8	6 Mbps
4873.000	23.9	15.0	95.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	6 Mbps
4873.031	23.7	15.0	295.0	1.6	3.0	0.0	V-Horn	AV	0.0	38.7	54.0	-15.3	54 Mbps
4872.979	23.6	15.0	67.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.6	54.0	-15.4	36 Mbps
4873.003	23.6	15.0	22.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.6	54.0	-15.4	36 Mbps
4873.049	23.6	15.0	28.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.6	54.0	-15.4	54 Mbps
4823.986	24.0	14.5	78.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.5	54.0	-15.5	1 Mbps
4824.020	24.0	14.5	346.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.5	54.0	-15.5	54 Mbps
4823.959	23.9	14.5	127.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	36 Mbps
4823.969	23.9	14.5	298.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	6 Mbps
4823.983	23.9	14.5	62.0	2.9	3.0	0.0	H-Horn	AV	0.0	38.4	54.0	-15.6	6 Mbps
4823.985	23.9	14.5	1.0	1.4	3.0	0.0	H-Horn	AV	0.0	38.4	54.0	-15.6	11 Mbps
4824.000	23.9	14.5	281.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	11 Mbps

NORTHWEST EMC		SPURIOUS RADIATED EMISSIONS		PSA 2007.05.07 EMI 2006.4.26																																																																																																																																																																																																																																																																																																							
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>12061.510</td><td>34.6</td><td>-8.9</td><td>295.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>25.7</td><td>54.0</td><td>-28.3</td><td>11 Mbps</td></tr> <tr><td>12062.060</td><td>34.6</td><td>-8.9</td><td>246.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>25.7</td><td>54.0</td><td>-28.3</td><td>1 Mbps</td></tr> <tr><td>12060.270</td><td>34.5</td><td>-8.9</td><td>219.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>25.6</td><td>54.0</td><td>-28.4</td><td>11 Mbps</td></tr> <tr><td>12060.320</td><td>34.5</td><td>-8.9</td><td>340.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>25.6</td><td>54.0</td><td>-28.4</td><td>54 Mbps</td></tr> <tr><td>12061.090</td><td>34.5</td><td>-8.9</td><td>59.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>25.6</td><td>54.0</td><td>-28.4</td><td>1 Mbps</td></tr> <tr><td>12061.170</td><td>34.5</td><td>-8.9</td><td>287.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>25.6</td><td>54.0</td><td>-28.4</td><td>36 Mbps</td></tr> <tr><td>12062.130</td><td>34.5</td><td>-8.9</td><td>291.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>25.6</td><td>54.0</td><td>-28.4</td><td>6 Mbps</td></tr> <tr><td>12060.140</td><td>34.4</td><td>-8.9</td><td>173.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>25.5</td><td>54.0</td><td>-28.5</td><td>6 Mbps</td></tr> <tr><td>12061.400</td><td>34.4</td><td>-8.9</td><td>342.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>25.5</td><td>54.0</td><td>-28.5</td><td>54 Mbps</td></tr> <tr><td>12062.320</td><td>34.4</td><td>-8.9</td><td>63.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>25.5</td><td>54.0</td><td>-28.5</td><td>36 Mbps</td></tr> <tr><td>12059.360</td><td>48.2</td><td>-8.9</td><td>63.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>39.3</td><td>74.0</td><td>-34.7</td><td>36 Mbps</td></tr> <tr><td>12060.930</td><td>47.5</td><td>-8.9</td><td>246.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>38.6</td><td>74.0</td><td>-35.4</td><td>1 Mbps</td></tr> <tr><td>12060.920</td><td>47.4</td><td>-8.9</td><td>295.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>38.5</td><td>74.0</td><td>-35.5</td><td>11 Mbps</td></tr> <tr><td>12061.190</td><td>47.2</td><td>-8.9</td><td>219.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>38.3</td><td>74.0</td><td>-35.7</td><td>11 Mbps</td></tr> <tr><td>12060.210</td><td>46.9</td><td>-8.9</td><td>340.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>38.0</td><td>74.0</td><td>-36.0</td><td>54 Mbps</td></tr> <tr><td>12059.410</td><td>46.7</td><td>-8.9</td><td>59.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>37.8</td><td>74.0</td><td>-36.2</td><td>1 Mbps</td></tr> <tr><td>12058.540</td><td>46.6</td><td>-8.9</td><td>342.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>37.7</td><td>74.0</td><td>-36.3</td><td>54 Mbps</td></tr> <tr><td>12059.730</td><td>46.6</td><td>-8.9</td><td>173.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>37.7</td><td>74.0</td><td>-36.3</td><td>6 Mbps</td></tr> <tr><td>12059.190</td><td>46.4</td><td>-8.9</td><td>291.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>37.5</td><td>74.0</td><td>-36.5</td><td>6 Mbps</td></tr> <tr><td>12061.300</td><td>46.4</td><td>-8.9</td><td>287.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>37.5</td><td>74.0</td><td>-36.5</td><td>36 Mbps</td></tr> </tbody> </table>						Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	12061.510	34.6	-8.9	295.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.7	54.0	-28.3	11 Mbps	12062.060	34.6	-8.9	246.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.7	54.0	-28.3	1 Mbps	12060.270	34.5	-8.9	219.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.6	54.0	-28.4	11 Mbps	12060.320	34.5	-8.9	340.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.6	54.0	-28.4	54 Mbps	12061.090	34.5	-8.9	59.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.6	54.0	-28.4	1 Mbps	12061.170	34.5	-8.9	287.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.6	54.0	-28.4	36 Mbps	12062.130	34.5	-8.9	291.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.6	54.0	-28.4	6 Mbps	12060.140	34.4	-8.9	173.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.5	54.0	-28.5	6 Mbps	12061.400	34.4	-8.9	342.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.5	54.0	-28.5	54 Mbps	12062.320	34.4	-8.9	63.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.5	54.0	-28.5	36 Mbps	12059.360	48.2	-8.9	63.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.3	74.0	-34.7	36 Mbps	12060.930	47.5	-8.9	246.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.6	74.0	-35.4	1 Mbps	12060.920	47.4	-8.9	295.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.5	74.0	-35.5	11 Mbps	12061.190	47.2	-8.9	219.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.3	74.0	-35.7	11 Mbps	12060.210	46.9	-8.9	340.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.0	74.0	-36.0	54 Mbps	12059.410	46.7	-8.9	59.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.8	74.0	-36.2	1 Mbps	12058.540	46.6	-8.9	342.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.7	74.0	-36.3	54 Mbps	12059.730	46.6	-8.9	173.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.7	74.0	-36.3	6 Mbps	12059.190	46.4	-8.9	291.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.5	74.0	-36.5	6 Mbps	12061.300	46.4	-8.9	287.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.5	74.0	-36.5	36 Mbps
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments																																																																																																																																																																																																																																																																																														
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12062.130	34.5	-8.9	291.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.6	54.0	-28.4	6 Mbps																																																																																																																																																																																																																																																																																														
12060.140	34.4	-8.9	173.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.5	54.0	-28.5	6 Mbps																																																																																																																																																																																																																																																																																														
12061.400	34.4	-8.9	342.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.5	54.0	-28.5	54 Mbps																																																																																																																																																																																																																																																																																														
12062.320	34.4	-8.9	63.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.5	54.0	-28.5	36 Mbps																																																																																																																																																																																																																																																																																														
12059.360	48.2	-8.9	63.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.3	74.0	-34.7	36 Mbps																																																																																																																																																																																																																																																																																														
12060.930	47.5	-8.9	246.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.6	74.0	-35.4	1 Mbps																																																																																																																																																																																																																																																																																														
12060.920	47.4	-8.9	295.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.5	74.0	-35.5	11 Mbps																																																																																																																																																																																																																																																																																														
12061.190	47.2	-8.9	219.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.3	74.0	-35.7	11 Mbps																																																																																																																																																																																																																																																																																														
12060.210	46.9	-8.9	340.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.0	74.0	-36.0	54 Mbps																																																																																																																																																																																																																																																																																														
12059.410	46.7	-8.9	59.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.8	74.0	-36.2	1 Mbps																																																																																																																																																																																																																																																																																														
12058.540	46.6	-8.9	342.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.7	74.0	-36.3	54 Mbps																																																																																																																																																																																																																																																																																														
12059.730	46.6	-8.9	173.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.7	74.0	-36.3	6 Mbps																																																																																																																																																																																																																																																																																														
12059.190	46.4	-8.9	291.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.5	74.0	-36.5	6 Mbps																																																																																																																																																																																																																																																																																														
12061.300	46.4	-8.9	287.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.5	74.0	-36.5	36 Mbps																																																																																																																																																																																																																																																																																														

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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>7386.824</td><td>24.3</td><td>17.7</td><td>138.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>42.0</td><td>54.0</td><td>-12.0</td><td>6 Mbps</td></tr> <tr><td>7385.014</td><td>24.2</td><td>17.7</td><td>14.0</td><td>2.9</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>1 Mbps</td></tr> <tr><td>7385.257</td><td>24.2</td><td>17.7</td><td>1.0</td><td>3.4</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>11 Mbps</td></tr> <tr><td>7385.401</td><td>24.2</td><td>17.7</td><td>240.0</td><td>3.8</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>1 Mbps</td></tr> <tr><td>7386.028</td><td>24.2</td><td>17.7</td><td>0.0</td><td>2.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>6 Mbps</td></tr> <tr><td>7386.134</td><td>24.2</td><td>17.7</td><td>139.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>36 Mbps</td></tr> <tr><td>7386.550</td><td>24.2</td><td>17.7</td><td>149.0</td><td>2.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>41.9</td><td>54.0</td><td>-12.1</td><td>36 Mbps</td></tr> <tr><td>7385.011</td><td>24.1</td><td>17.7</td><td>64.0</td><td>2.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>41.8</td><td>54.0</td><td>-12.2</td><td>54 Mbps</td></tr> <tr><td>7387.621</td><td>24.1</td><td>17.7</td><td>294.0</td><td>3.7</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>41.8</td><td>54.0</td><td>-12.2</td><td>11 Mbps</td></tr> <tr><td>7388.268</td><td>24.1</td><td>17.7</td><td>57.0</td><td>2.9</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>41.8</td><td>54.0</td><td>-12.2</td><td>54 Mbps</td></tr> <tr><td>4925.249</td><td>45.4</td><td>14.8</td><td>188.0</td><td>2.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>60.2</td><td>74.0</td><td>-13.8</td><td>36 Mbps</td></tr> <tr><td>4924.148</td><td>23.4</td><td>14.8</td><td>188.0</td><td>2.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>38.2</td><td>54.0</td><td>-15.8</td><td>36 Mbps</td></tr> <tr><td>4924.374</td><td>23.4</td><td>14.8</td><td>156.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>38.2</td><td>54.0</td><td>-15.8</td><td>36 Mbps</td></tr> <tr><td>4923.265</td><td>23.3</td><td>14.8</td><td>42.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>38.1</td><td>54.0</td><td>-15.9</td><td>6 Mbps</td></tr> <tr><td>4923.556</td><td>23.3</td><td>14.8</td><td>182.0</td><td>1.9</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>38.1</td><td>54.0</td><td>-15.9</td><td>11 Mbps</td></tr> <tr><td>4923.594</td><td>23.3</td><td>14.8</td><td>299.0</td><td>2.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>38.1</td><td>54.0</td><td>-15.9</td><td>54 Mbps</td></tr> <tr><td>4921.841</td><td>23.2</td><td>14.8</td><td>34.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>38.0</td><td>54.0</td><td>-16.0</td><td>1 Mbps</td></tr> <tr><td>4923.769</td><td>23.2</td><td>14.8</td><td>287.0</td><td>1.7</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>38.0</td><td>54.0</td><td>-16.0</td><td>6 Mbps</td></tr> <tr><td>4924.038</td><td>23.2</td><td>14.8</td><td>215.0</td><td>1.3</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>38.0</td><td>54.0</td><td>-16.0</td><td>11 Mbps</td></tr> <tr><td>4924.438</td><td>23.2</td><td>14.8</td><td>240.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>38.0</td><td>54.0</td><td>-16.0</td><td>54 Mbps</td></tr> </tbody> </table>	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	7386.824	24.3	17.7	138.0	1.0	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	6 Mbps	7385.014	24.2	17.7	14.0	2.9	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	1 Mbps	7385.257	24.2	17.7	1.0	3.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	11 Mbps	7385.401	24.2	17.7	240.0	3.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	1 Mbps	7386.028	24.2	17.7	0.0	2.2	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	6 Mbps	7386.134	24.2	17.7	139.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	36 Mbps	7386.550	24.2	17.7	149.0	2.1	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	36 Mbps	7385.011	24.1	17.7	64.0	2.1	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	54 Mbps	7387.621	24.1	17.7	294.0	3.7	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	11 Mbps	7388.268	24.1	17.7	57.0	2.9	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	54 Mbps	4925.249	45.4	14.8	188.0	2.1	3.0	0.0	V-Horn	PK	0.0	60.2	74.0	-13.8	36 Mbps	4924.148	23.4	14.8	188.0	2.1	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	36 Mbps	4924.374	23.4	14.8	156.0	1.5	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	36 Mbps	4923.265	23.3	14.8	42.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	6 Mbps	4923.556	23.3	14.8	182.0	1.9	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	11 Mbps	4923.594	23.3	14.8	299.0	2.1	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	54 Mbps	4921.841	23.2	14.8	34.0	1.4	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	1 Mbps	4923.769	23.2	14.8	287.0	1.7	3.0	0.0	V-Horn	AV	0.0	38.0	54.0	-16.0	6 Mbps	4924.038	23.2	14.8	215.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	11 Mbps	4924.438	23.2	14.8	240.0	1.4	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	54 Mbps
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments																																																																																																																																																																																																																																																																																									
7386.824	24.3	17.7	138.0	1.0	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	6 Mbps																																																																																																																																																																																																																																																																																									
7385.014	24.2	17.7	14.0	2.9	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	1 Mbps																																																																																																																																																																																																																																																																																									
7385.257	24.2	17.7	1.0	3.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	11 Mbps																																																																																																																																																																																																																																																																																									
7385.401	24.2	17.7	240.0	3.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	1 Mbps																																																																																																																																																																																																																																																																																									
7386.028	24.2	17.7	0.0	2.2	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	6 Mbps																																																																																																																																																																																																																																																																																									
7386.134	24.2	17.7	139.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	36 Mbps																																																																																																																																																																																																																																																																																									
7386.550	24.2	17.7	149.0	2.1	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	36 Mbps																																																																																																																																																																																																																																																																																									
7385.011	24.1	17.7	64.0	2.1	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	54 Mbps																																																																																																																																																																																																																																																																																									
7387.621	24.1	17.7	294.0	3.7	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	11 Mbps																																																																																																																																																																																																																																																																																									
7388.268	24.1	17.7	57.0	2.9	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	54 Mbps																																																																																																																																																																																																																																																																																									
4925.249	45.4	14.8	188.0	2.1	3.0	0.0	V-Horn	PK	0.0	60.2	74.0	-13.8	36 Mbps																																																																																																																																																																																																																																																																																									
4924.148	23.4	14.8	188.0	2.1	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	36 Mbps																																																																																																																																																																																																																																																																																									
4924.374	23.4	14.8	156.0	1.5	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	36 Mbps																																																																																																																																																																																																																																																																																									
4923.265	23.3	14.8	42.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	6 Mbps																																																																																																																																																																																																																																																																																									
4923.556	23.3	14.8	182.0	1.9	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	11 Mbps																																																																																																																																																																																																																																																																																									
4923.594	23.3	14.8	299.0	2.1	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	54 Mbps																																																																																																																																																																																																																																																																																									
4921.841	23.2	14.8	34.0	1.4	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	1 Mbps																																																																																																																																																																																																																																																																																									
4923.769	23.2	14.8	287.0	1.7	3.0	0.0	V-Horn	AV	0.0	38.0	54.0	-16.0	6 Mbps																																																																																																																																																																																																																																																																																									
4924.038	23.2	14.8	215.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	11 Mbps																																																																																																																																																																																																																																																																																									
4924.438	23.2	14.8	240.0	1.4	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	54 Mbps																																																																																																																																																																																																																																																																																									

NORTHWEST		PSA 2007.05.07 EMI 2006.4.26											
EMC		SPURIOUS RADIATED EMISSIONS											
EUT: Constellation Vision System (NGVS)		Work Order: ALCO0074											
Serial Number: 0702723711		Date: 12/12/07											
Customer: Alcon Laboratories, Inc.		Temperature: 24.46											
Attendees: Thai Lam		Humidity: 45%											
Project: None		Barometric Pres.: 1016.3 mb											
Tested by: Jaemi Suh		Power: 120VAC/60Hz											
		Job Site: OC10											
TEST SPECIFICATIONS		Test Method											
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074											
TEST PARAMETERS													
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3										
COMMENTS													
Channel 11. Data Rates 1, 11, 6, 36, 54 Mbps.													
EUT OPERATING MODES													
Idle Mode. RFID Radio On. 802.11 b/g On.													
DEVIATIONS FROM TEST STANDARD													
No deviations.													
Run #	24	<i>Signature</i>											
Configuration #	1												
Results	Pass												
MHz													
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
12307.840	33.5	-8.0	267.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.5	54.0	-28.5	6 Mbps
12308.090	33.3	-8.0	180.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.3	54.0	-28.7	54 Mbps
12308.210	33.3	-8.0	282.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.3	54.0	-28.7	36 Mbps
12308.330	33.3	-8.0	85.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.3	54.0	-28.7	6 Mbps
12309.430	33.3	-8.0	284.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.3	54.0	-28.7	11 Mbps
12309.470	33.3	-8.0	174.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.3	54.0	-28.7	1 Mbps
12309.500	33.3	-8.0	207.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.3	54.0	-28.7	36 Mbps
12309.510	33.3	-8.0	297.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.3	54.0	-28.7	1 Mbps
12309.180	33.2	-8.0	350.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.2	54.0	-28.8	54 Mbps
12307.950	33.1	-8.0	152.0	1.4	3.0	0.0	H-Horn	AV	0.0	25.1	54.0	-28.9	11 Mbps
12309.590	46.1	-8.0	207.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.1	74.0	-35.9	36 Mbps
12308.900	45.9	-8.0	284.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.9	74.0	-36.1	11 Mbps
12310.740	45.9	-8.0	180.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.9	74.0	-36.1	54 Mbps
12309.190	45.8	-8.0	350.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.8	74.0	-36.2	54 Mbps
12309.250	45.8	-8.0	267.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.8	74.0	-36.2	6 Mbps
12309.300	45.7	-8.0	152.0	1.4	3.0	0.0	H-Horn	PK	0.0	37.7	74.0	-36.3	11 Mbps
12309.310	45.7	-8.0	174.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.7	74.0	-36.3	1 Mbps
12308.960	45.5	-8.0	85.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.5	74.0	-36.5	6 Mbps
12310.330	45.5	-8.0	297.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.5	74.0	-36.5	1 Mbps
12311.020	45.5	-8.0	282.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.5	74.0	-36.5	36 Mbps

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

802.11 On. RFID On. Channel 1 (Low Channel)

802.11 On. RFID On. Channel 6 (Mid Channel)

802.11 On. RFID On. Channel 11 (High Channel)

POWER SETTINGS INVESTIGATED

120V/60Hz

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-24-BNC	LIB	5/8/2006	24
OC11 cables a-b-e-f			OCM	1/8/2007	13
Receiver	Rohde & Schwartz	ESCI	ARF	12/14/2006	13

MEASUREMENT BANDWIDTHS

	Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.


MEASUREMENT UNCERTAINTY

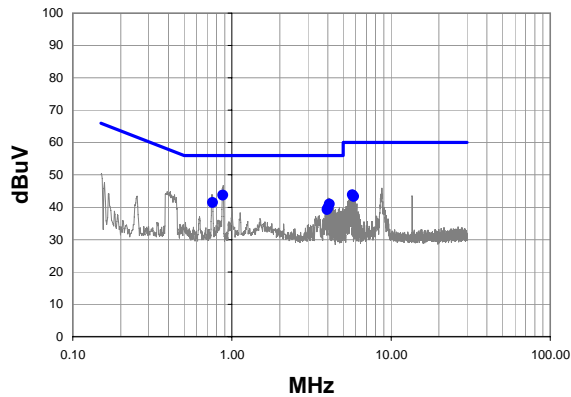
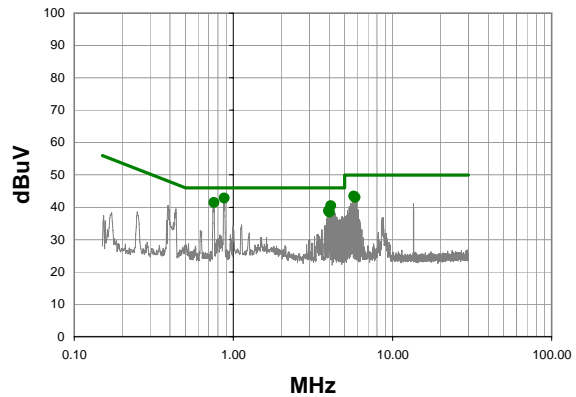
Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50 Ω measuring port is terminated by a 50 Ω EMI meter or a 50 Ω resistive load. All 50 Ω measuring ports of the LISN are terminated by 50 Ω .

EMC**AC POWERLINE CONDUCTED EMISSIONS**


Work Order:	ALCO0074	Date:	12/13/07				
Project:	None	Temperature:	24.46				
Job Site:	OC06	Humidity:	44.9				
Serial Number:	702723711	Barometric Pres.:	1016.3 mb				
Tested by: Jaemi Suh							
EUT:	Constellation Vision System (NGVS)						
Configuration:	1 - Basic Config						
Customer:	Alcon Laboratories, Inc.						
Attendees:	Thai Lam						
EUT Power:	120V/60Hz						
Operating Mode:	802.11 On. RFID On. Channel 11 (High Channel)						
Deviations:	None						
Comments:	None						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	14	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit**Average Data - vs - Average Limit****Quasi Peak Data - vs - Quasi Peak Limit**

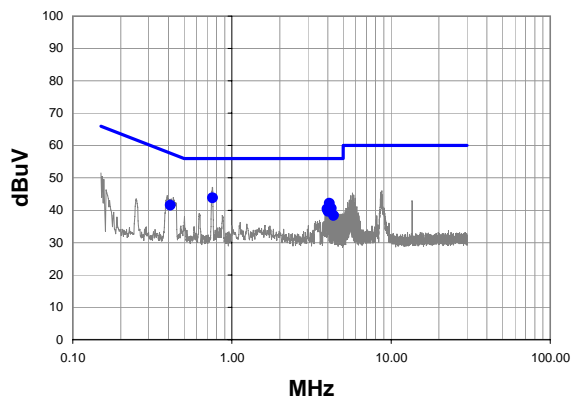
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.879	22.9	0.8	43.7	56.0	-12.3
0.755	20.6	0.8	41.4	56.0	-14.6
4.100	20.2	0.8	41.0	56.0	-15.0
4.024	19.1	0.8	39.9	56.0	-16.1
5.718	23.0	0.8	43.8	60.0	-16.2
5.840	22.5	0.8	43.3	60.0	-16.7
3.976	18.5	0.8	39.3	56.0	-16.7

Average Data - vs - Average Limit

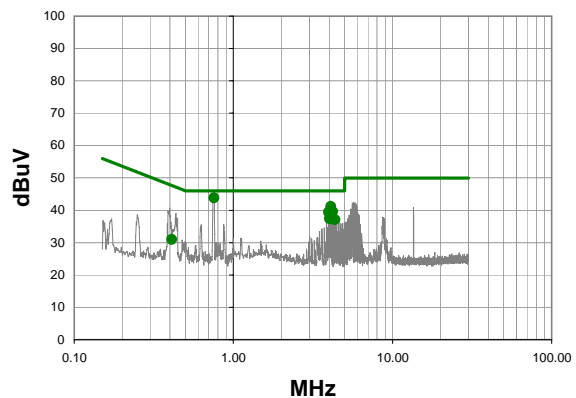
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.879	22.1	0.8	42.9	46.0	-3.1
0.755	20.6	0.8	41.4	46.0	-4.6
4.100	19.7	0.8	40.5	46.0	-5.5
5.718	22.6	0.8	43.4	50.0	-6.6
5.840	22.2	0.8	43.0	50.0	-7.0
3.976	18.1	0.8	38.9	46.0	-7.1
4.024	17.7	0.8	38.5	46.0	-7.5

Work Order:	ALCO0074	Date:	12/13/07				
Project:	None	Temperature:	24.46				
Job Site:	OC06	Humidity:	44.9				
Serial Number:	702723711	Barometric Pres.:	1016.3 mb				
Tested by: Jaemi Suh							
EUT:	Constellation Vision System (NGVS)						
Configuration:	1 - Basic Config						
Customer:	Alcon Laboratories, Inc.						
Attendees:	Thai Lam						
EUT Power:	120V/60Hz						
Operating Mode:	802.11 On. RFID On. Channel 11 (High Channel)						
Deviations:	None						
Comments:	None						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	15	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit




Quasi Peak Data - vs - Quasi Peak Limit

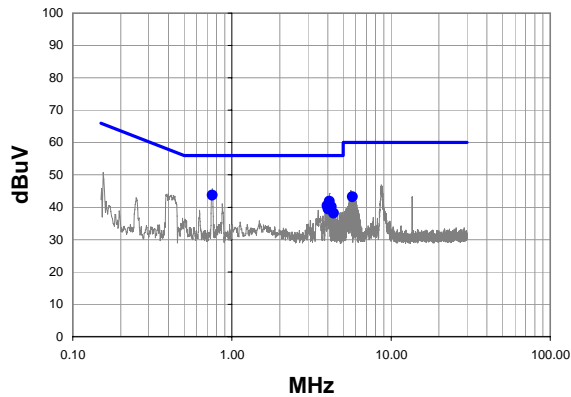
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.755	23.0	0.8	43.8	56.0	-12.2
4.096	21.3	0.8	42.1	56.0	-13.9
4.220	19.8	0.8	40.6	56.0	-15.4
3.972	19.6	0.8	40.4	56.0	-15.6
0.410	20.5	1.1	41.6	57.6	-16.1
4.020	18.9	0.8	39.7	56.0	-16.3
4.344	17.6	0.8	38.4	56.0	-17.6

Average Data - vs - Average Limit

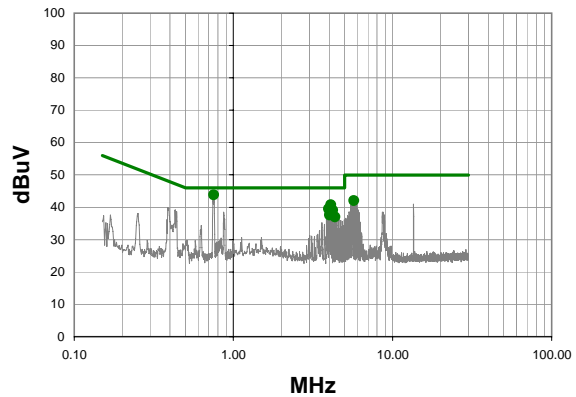
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.755	23.0	0.8	43.8	46.0	-2.2
4.096	20.4	0.8	41.2	46.0	-4.8
4.220	18.8	0.8	39.6	46.0	-6.4
3.972	18.6	0.8	39.4	46.0	-6.6
4.020	16.6	0.8	37.4	46.0	-8.6
4.344	16.3	0.8	37.1	46.0	-8.9
0.410	9.9	1.1	31.0	47.6	-16.7

Work Order:	ALCO0074	Date:	12/13/07				
Project:	None	Temperature:	24.46				
Job Site:	OC06	Humidity:	44.9				
Serial Number:	702723711	Barometric Pres.:	1016.3 mb				
Tested by: Jaemi Suh							
EUT:	Constellation Vision System (NGVS)						
Configuration:	1 - Basic Config						
Customer:	Alcon Laboratories, Inc.						
Attendees:	Thai Lam						
EUT Power:	120V/60Hz						
Operating Mode:	802.11 On. RFID On. Channel 6 (Mid Channel)						
Deviations:	None						
Comments:	None						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	16	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit




Quasi Peak Data - vs - Quasi Peak Limit

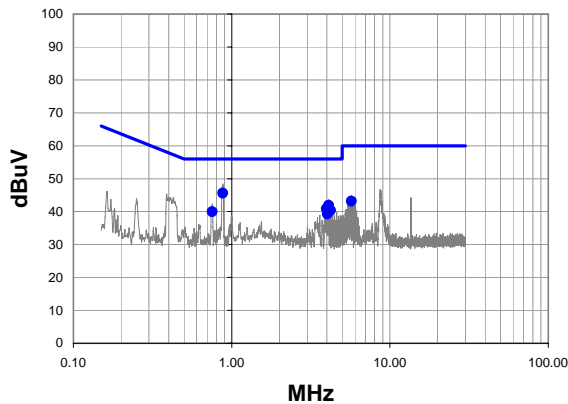
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.753	22.9	0.8	43.7	56.0	-12.3
4.096	21.0	0.8	41.8	56.0	-14.2
3.972	19.7	0.8	40.5	56.0	-15.5
4.220	19.4	0.8	40.2	56.0	-15.8
4.020	18.7	0.8	39.5	56.0	-16.5
5.710	22.4	0.8	43.2	60.0	-16.8
4.344	17.4	0.8	38.2	56.0	-17.8

Average Data - vs - Average Limit

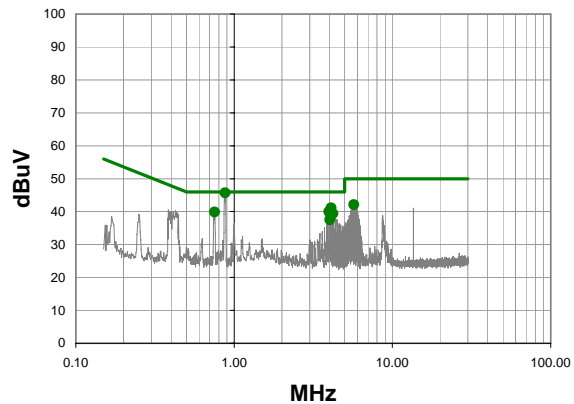
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.753	23.0	0.8	43.8	46.0	-2.2
4.096	20.0	0.8	40.8	46.0	-5.2
3.972	18.7	0.8	39.5	46.0	-6.5
4.220	18.3	0.8	39.1	46.0	-6.9
5.710	21.2	0.8	42.0	50.0	-8.0
4.020	16.8	0.8	37.6	46.0	-8.4
4.344	16.2	0.8	37.0	46.0	-9.0

Work Order:	ALCO0074	Date:	12/13/07				
Project:	None	Temperature:	24.46				
Job Site:	OC06	Humidity:	44.9				
Serial Number:	702723711	Barometric Pres.:	1016.3 mb				
EUT:	Constellation Vision System (NGVS)						
Configuration:	1 - Basic Config						
Customer:	Alcon Laboratories, Inc.						
Attendees:	Thai Lam						
EUT Power:	120V/60Hz						
Operating Mode:	802.11 On. RFID On. Channel 6 (Mid Channel)						
Deviations:	None						
Comments:	None						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	17	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit




Quasi Peak Data - vs - Quasi Peak Limit

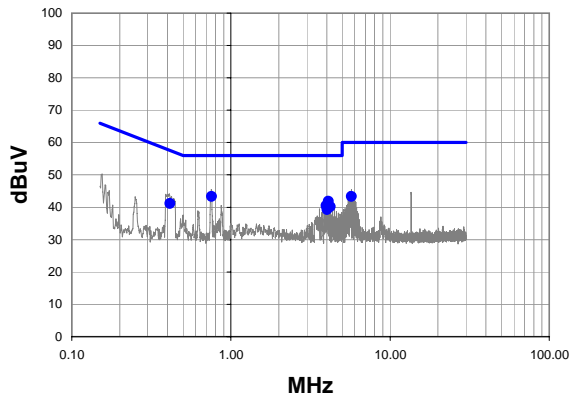
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.879	24.8	0.8	45.6	56.0	-10.4
4.096	21.1	0.8	41.9	56.0	-14.1
3.972	20.0	0.8	40.8	56.0	-15.2
4.220	19.5	0.8	40.3	56.0	-15.7
0.755	19.1	0.8	39.9	56.0	-16.1
4.020	18.5	0.8	39.3	56.0	-16.7
5.710	22.3	0.8	43.1	60.0	-16.9

Average Data - vs - Average Limit

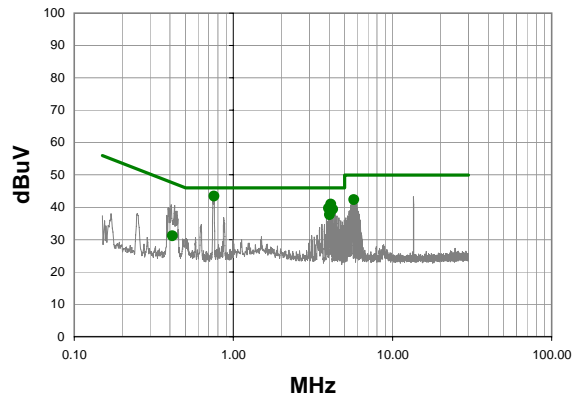
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.879	24.9	0.8	45.7	46.0	-0.3
4.096	20.3	0.8	41.1	46.0	-4.9
3.972	19.1	0.8	39.9	46.0	-6.1
0.755	19.0	0.8	39.8	46.0	-6.2
4.220	18.6	0.8	39.4	46.0	-6.6
5.710	21.3	0.8	42.1	50.0	-7.9
4.020	16.7	0.8	37.5	46.0	-8.5

Work Order:	ALCO0074	Date:	12/13/07				
Project:	None	Temperature:	24.46				
Job Site:	OC06	Humidity:	44.9				
Serial Number:	702723711	Barometric Pres.:	1016.3 mb				
EUT:	Constellation Vision System (NGVS)						
Configuration:	1 - Basic Config						
Customer:	Alcon Laboratories, Inc.						
Attendees:	Thai Lam						
EUT Power:	120V/60Hz						
Operating Mode:	802.11 On. RFID On. Channel 1 (Low Channel)						
Deviations:	None						
Comments:	None						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	18	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit




Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.755	22.5	0.8	43.3	56.0	-12.7
4.096	21.0	0.8	41.8	56.0	-14.2
3.972	19.7	0.8	40.5	56.0	-15.5
4.220	19.4	0.8	40.2	56.0	-15.8
0.415	20.1	1.1	41.2	57.5	-16.4
5.710	22.5	0.8	43.3	60.0	-16.7
4.020	18.5	0.8	39.3	56.0	-16.7

Average Data - vs - Average Limit

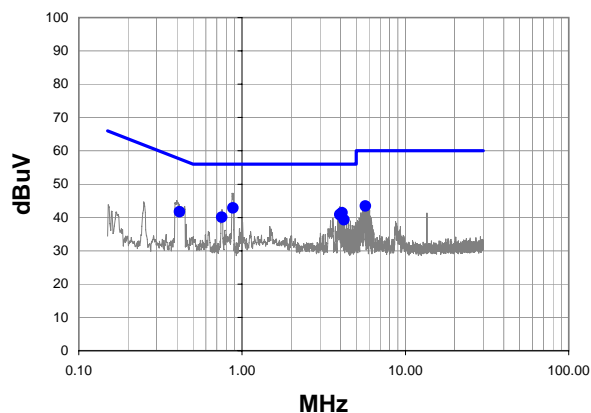
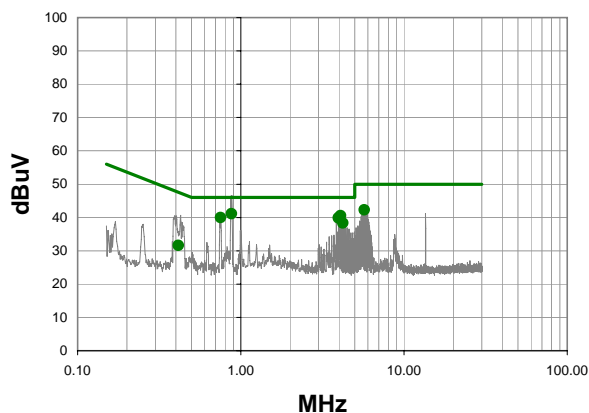
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.755	22.6	0.8	43.4	46.0	-2.6
4.096	20.2	0.8	41.0	46.0	-5.0
3.972	18.9	0.8	39.7	46.0	-6.3
4.220	18.6	0.8	39.4	46.0	-6.6
5.710	21.5	0.8	42.3	50.0	-7.7
4.020	16.9	0.8	37.7	46.0	-8.3
0.415	10.1	1.1	31.2	47.5	-16.4

EMC**AC POWERLINE CONDUCTED EMISSIONS**

Work Order:	ALCO0074	Date:	12/13/07	
Project:	None	Temperature:	24.46	
Job Site:	OC06	Humidity:	44.9	
Serial Number:	702723711	Barometric Pres.:	1016.3 mb	
EUT:		Constellation Vision System (NGVS)		
Configuration:		1 - Basic Config		
Customer:		Alcon Laboratories, Inc.		
Attendees:		Thai Lam		
EUT Power:		120V/60Hz		
Operating Mode:		802.11 On. RFID On. Channel 1 (Low Channel)		
Deviations:		None		
Comments:		None		

Test Specifications
FCC 15.207:2006**Test Method**
ANSI C63.4:2003

Run #	19	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit**Average Data - vs - Average Limit****Quasi Peak Data - vs - Quasi Peak Limit**

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.879	22.1	0.8	42.9	56.0	-13.1
4.096	20.6	0.8	41.4	56.0	-14.6
3.972	20.0	0.8	40.8	56.0	-15.2
0.415	20.6	1.1	41.7	57.5	-15.9
0.753	19.2	0.8	40.0	56.0	-16.0
5.710	22.6	0.8	43.4	60.0	-16.6
4.220	18.5	0.8	39.3	56.0	-16.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.879	20.3	0.8	41.1	46.0	-4.9
4.096	19.7	0.8	40.5	46.0	-5.5
0.753	19.1	0.8	39.9	46.0	-6.1
3.972	19.1	0.8	39.9	46.0	-6.1
5.710	21.5	0.8	42.3	50.0	-7.7
4.220	17.5	0.8	38.3	46.0	-7.7
0.415	10.5	1.1	31.6	47.5	-16.0