Intermec Technologies Corporation

CV30

July 24, 2007

Report No. INMC0356.1

Report Prepared By

NORTHWEST EMC

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

EMC Test Report

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: July 24, 2007
Intermec Technologies Corporation
Model: CV30

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
AC Powerline Conducted Emissions	FCC 15.207:2006	ANSI C63.4:2003	**Pass**
Spurious Radiated Emissions	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	**Pass**

Modifications made to the product
See the Modifications section of this report

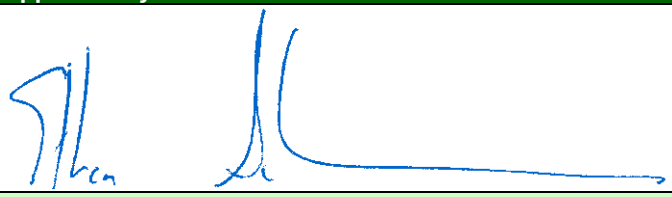
Test Facility

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

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

Phone: (949) 861-8918 Fax: 861-8923

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

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
00	None		

Accreditations and Authorizations

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.

NVLAP LAB CODE 200629-0
NVLAP LAB CODE 200630-0
NVLAP LAB CODE 200676-0
NVLAP LAB CODE 200761-0

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 TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories, available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV'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).

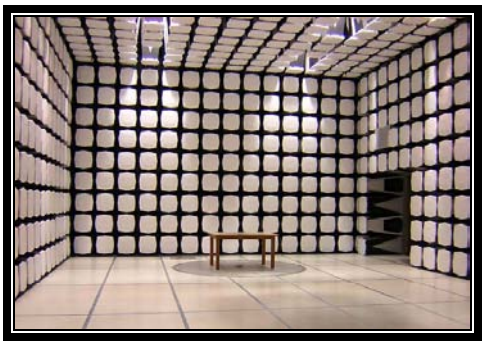
VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. *(Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943,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

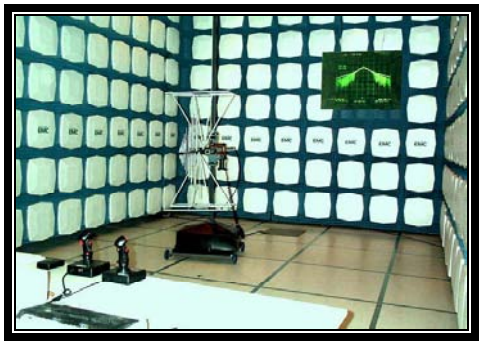
SCOPE

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:	Intermec Technologies Corporation
Address:	550 Second St. SE
City, State, Zip:	Cedar Rapids, IA 52401-2023
Test Requested By:	Scott Holub
Model:	CV30
First Date of Test:	June 26, 2007
Last Date of Test:	July 3, 2007
Receipt Date of Samples:	June 25, 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):
The CV30 forklift mounted computer. It contains a model DRCB 802.11b/g radio.

Testing Objective:
Seeking to demonstrate compliance to FCC 15.247 requirements.

EUT Photo

CONFIGURATION 1 INMC0356

Software/Firmware Running during test	
Description	**Version**
FCC Test Utlity	1.01

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
CV30	Intermec Technologies Corporation	CV30	07510737097

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Power	No	1.8m	No	DC Adapter	AC Mains
DC Power	No	1.9m	Yes	DC Adapter	CV30
802.11 Antenna Cable	No	1.5m	No	CV30	Antenna
VGA Cable	No	.3m	No	CV30	Unterminated
Serial Cable	No	1.7m	No	CV30	Unterminated
LAN Cable	No	1.7m	No	CV30	Unterminated
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	6/26/2007	AC Powerline Conducted 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	7/3/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

CONDUCTED EMISSIONS

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 B/G Mode. 1 Mbps. High Channel
802.11 B/G Mode. 1 Mbps. Mid Channel
802.11 B/G Mode. 1 Mbps. Low Channel

POWER SETTINGS INVESTIGATED
230V/50Hz
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	16
OC11 cables a-b-e-f			OCM	1/8/2007	13
Receiver	Rohde & Schwartz	ESCI	ARF	12/14/2006	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (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 50Ω.

NORTHWEST

EMC

CONDUCTED EMISSIONS

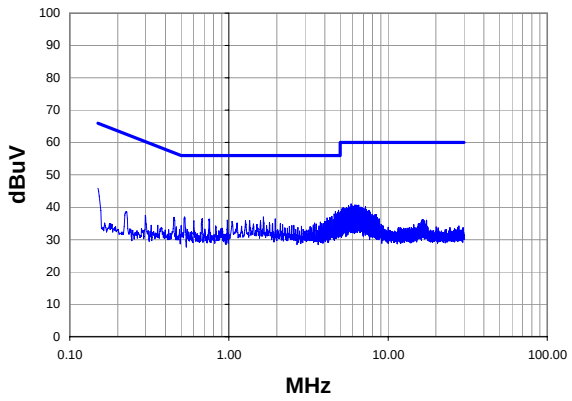
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Low Channel				
Deviations:	None				
Comments:	None				

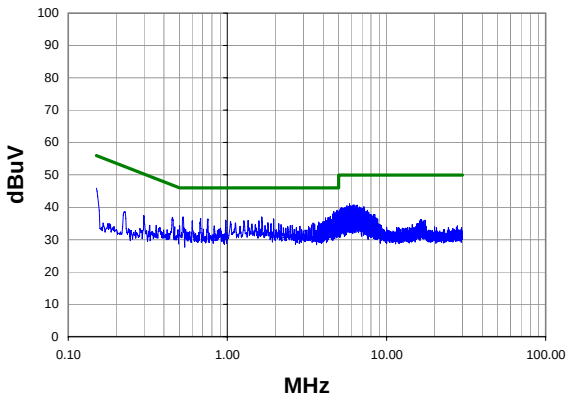
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	1	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
4.888	18.3	0.8	39.1	56.0	-16.9
4.664	17.9	0.8	38.7	56.0	-17.3
4.816	17.7	0.8	38.5	56.0	-17.5
4.968	17.5	0.8	38.3	56.0	-17.7
4.584	17.1	0.8	37.9	56.0	-18.1
4.736	17.1	0.8	37.9	56.0	-18.1
4.440	16.4	0.8	37.2	56.0	-18.8
5.860	20.2	0.8	41.0	60.0	-19.0
1.648	16.3	0.7	37.0	56.0	-19.0
0.527	16.1	0.9	37.0	56.0	-19.0
4.288	16.0	0.8	36.8	56.0	-19.2
4.136	15.9	0.8	36.7	56.0	-19.3
4.360	15.9	0.8	36.7	56.0	-19.3
6.230	19.8	0.9	40.7	60.0	-19.3
6.310	19.8	0.9	40.7	60.0	-19.3
6.540	19.8	0.9	40.7	60.0	-19.3
6.160	19.8	0.9	40.7	60.0	-19.3
6.460	19.7	0.9	40.6	60.0	-19.4
0.679	15.7	0.8	36.5	56.0	-19.5
5.630	19.7	0.8	40.5	60.0	-19.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
4.888	18.3	0.8	39.1	46.0	-6.9
4.664	17.9	0.8	38.7	46.0	-7.3
4.816	17.7	0.8	38.5	46.0	-7.5
4.968	17.5	0.8	38.3	46.0	-7.7
4.584	17.1	0.8	37.9	46.0	-8.1
4.736	17.1	0.8	37.9	46.0	-8.1
4.440	16.4	0.8	37.2	46.0	-8.8
5.860	20.2	0.8	41.0	50.0	-9.0
1.648	16.3	0.7	37.0	46.0	-9.0
0.527	16.1	0.9	37.0	46.0	-9.0
4.288	16.0	0.8	36.8	46.0	-9.2
4.136	15.9	0.8	36.7	46.0	-9.3
4.360	15.9	0.8	36.7	46.0	-9.3
6.230	19.8	0.9	40.7	50.0	-9.3
6.310	19.8	0.9	40.7	50.0	-9.3
6.540	19.8	0.9	40.7	50.0	-9.3
6.160	19.8	0.9	40.7	50.0	-9.3
6.460	19.7	0.9	40.6	50.0	-9.4
0.679	15.7	0.8	36.5	46.0	-9.5
5.630	19.7	0.8	40.5	50.0	-9.5

NORTHWEST

EMC

CONDUCTED EMISSIONS

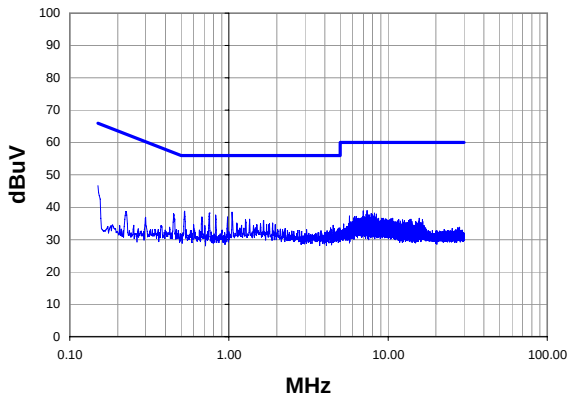
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Low Channel				
Deviations:	None				
Comments:	None				

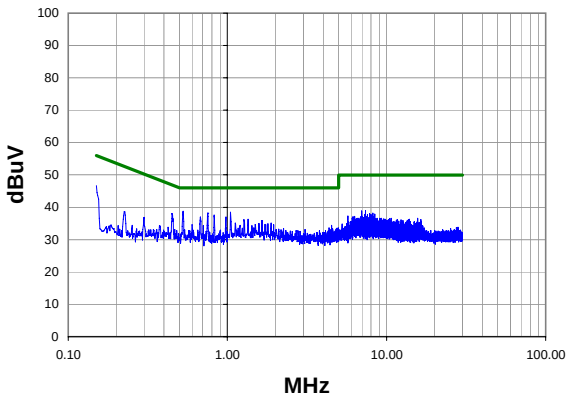
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	2	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.527	17.9	0.9	38.8	56.0	-17.2
1.048	17.8	0.7	38.5	56.0	-17.5
0.753	17.3	0.8	38.1	56.0	-17.9
0.825	16.8	0.8	37.6	56.0	-18.4
0.449	17.1	1.0	38.1	56.9	-18.8
0.978	16.3	0.7	37.0	56.0	-19.0
0.675	16.2	0.8	37.0	56.0	-19.0
0.150	24.4	2.3	46.7	66.0	-19.3
1.352	15.6	0.7	36.3	56.0	-19.7
1.272	15.5	0.7	36.2	56.0	-19.8
1.656	15.2	0.7	35.9	56.0	-20.1
1.120	14.4	0.7	35.1	56.0	-20.9
1.880	14.4	0.7	35.1	56.0	-20.9
1.576	14.3	0.7	35.0	56.0	-21.0
7.370	18.1	0.9	39.0	60.0	-21.0
1.800	14.2	0.7	34.9	56.0	-21.1
6.990	18.0	0.9	38.9	60.0	-21.1
1.728	14.0	0.7	34.7	56.0	-21.3
0.601	13.8	0.8	34.6	56.0	-21.4
1.496	13.9	0.7	34.6	56.0	-21.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.527	17.9	0.9	38.8	46.0	-7.2
1.048	17.8	0.7	38.5	46.0	-7.5
0.753	17.3	0.8	38.1	46.0	-7.9
0.825	16.8	0.8	37.6	46.0	-8.4
0.449	17.1	1.0	38.1	46.9	-8.8
0.978	16.3	0.7	37.0	46.0	-9.0
0.675	16.2	0.8	37.0	46.0	-9.0
0.150	24.4	2.3	46.7	56.0	-9.3
1.352	15.6	0.7	36.3	46.0	-9.7
1.272	15.5	0.7	36.2	46.0	-9.8
1.656	15.2	0.7	35.9	46.0	-10.1
1.120	14.4	0.7	35.1	46.0	-10.9
1.880	14.4	0.7	35.1	46.0	-10.9
1.576	14.3	0.7	35.0	46.0	-11.0
7.370	18.1	0.9	39.0	50.0	-11.0
1.800	14.2	0.7	34.9	46.0	-11.1
6.990	18.0	0.9	38.9	50.0	-11.1
1.728	14.0	0.7	34.7	46.0	-11.3
0.601	13.8	0.8	34.6	46.0	-11.4
1.496	13.9	0.7	34.6	46.0	-11.4

NORTHWEST

EMC

CONDUCTED EMISSIONS

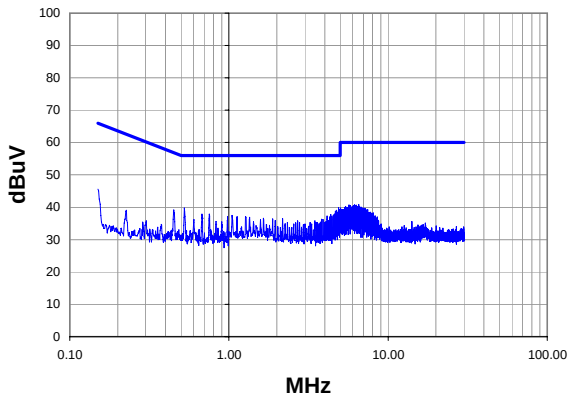
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Mid Channel				
Deviations:	None				
Comments:	None				

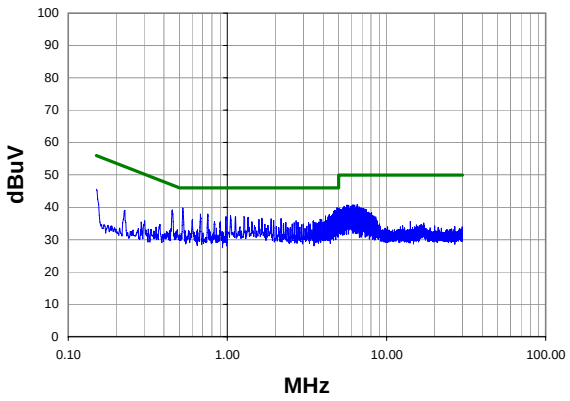
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	3	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.888	19.1	0.8	39.9	56.0	-16.1
0.526	18.9	0.9	39.8	56.0	-16.2
4.968	18.5	0.8	39.3	56.0	-16.7
4.736	18.3	0.8	39.1	56.0	-16.9
4.664	18.0	0.8	38.8	56.0	-17.2
4.816	17.7	0.8	38.5	56.0	-17.5
0.451	18.2	1.0	39.2	56.9	-17.7
0.677	17.1	0.8	37.9	56.0	-18.1
4.592	17.1	0.8	37.9	56.0	-18.1
0.753	17.0	0.8	37.8	56.0	-18.2
4.368	16.9	0.8	37.7	56.0	-18.3
1.048	16.8	0.7	37.5	56.0	-18.5
4.512	16.6	0.8	37.4	56.0	-18.6
4.136	16.5	0.8	37.3	56.0	-18.7
0.980	16.4	0.7	37.1	56.0	-18.9
1.128	16.4	0.7	37.1	56.0	-18.9
1.272	16.4	0.7	37.1	56.0	-18.9
4.440	16.3	0.8	37.1	56.0	-18.9
4.288	16.2	0.8	37.0	56.0	-19.0
1.352	16.2	0.7	36.9	56.0	-19.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.888	19.1	0.8	39.9	46.0	-6.1
0.526	18.9	0.9	39.8	46.0	-6.2
4.968	18.5	0.8	39.3	46.0	-6.7
4.736	18.3	0.8	39.1	46.0	-6.9
4.664	18.0	0.8	38.8	46.0	-7.2
4.816	17.7	0.8	38.5	46.0	-7.5
0.451	18.2	1.0	39.2	46.9	-7.7
0.677	17.1	0.8	37.9	46.0	-8.1
4.592	17.1	0.8	37.9	46.0	-8.1
0.753	17.0	0.8	37.8	46.0	-8.2
4.368	16.9	0.8	37.7	46.0	-8.3
1.048	16.8	0.7	37.5	46.0	-8.5
4.512	16.6	0.8	37.4	46.0	-8.6
4.136	16.5	0.8	37.3	46.0	-8.7
0.980	16.4	0.7	37.1	46.0	-8.9
1.128	16.4	0.7	37.1	46.0	-8.9
1.272	16.4	0.7	37.1	46.0	-8.9
4.440	16.3	0.8	37.1	46.0	-8.9
4.288	16.2	0.8	37.0	46.0	-9.0
1.352	16.2	0.7	36.9	46.0	-9.1

NORTHWEST

EMC

CONDUCTED EMISSIONS

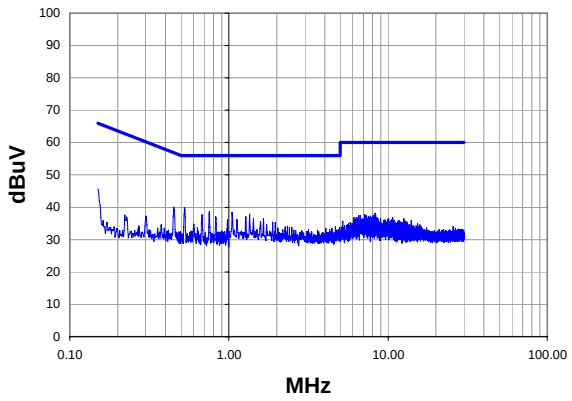
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Mid Channel				
Deviations:	None				
Comments:	None				

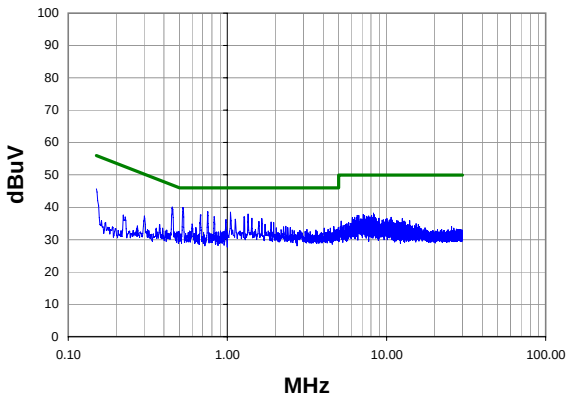
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	4	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.526	19.0	0.9	39.9	56.0	-16.1
0.451	19.1	1.0	40.1	56.9	-16.8
0.753	17.8	0.8	38.6	56.0	-17.4
1.048	17.8	0.7	38.5	56.0	-17.5
1.352	17.2	0.7	37.9	56.0	-18.1
0.675	16.8	0.8	37.6	56.0	-18.4
0.827	16.3	0.8	37.1	56.0	-18.9
1.272	16.3	0.7	37.0	56.0	-19.0
1.424	15.9	0.7	36.6	56.0	-19.4
1.648	15.8	0.7	36.5	56.0	-19.5
1.120	15.6	0.7	36.3	56.0	-19.7
0.978	15.5	0.7	36.2	56.0	-19.8
0.150	23.4	2.3	45.7	66.0	-20.3
1.576	14.9	0.7	35.6	56.0	-20.4
1.880	14.7	0.7	35.4	56.0	-20.6
1.952	14.6	0.7	35.3	56.0	-20.7
0.601	14.0	0.8	34.8	56.0	-21.2
1.728	14.0	0.7	34.7	56.0	-21.3
8.270	17.3	0.9	38.2	60.0	-21.8
2.328	13.4	0.8	34.2	56.0	-21.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.526	19.0	0.9	39.9	46.0	-6.1
0.451	19.1	1.0	40.1	46.9	-6.8
0.753	17.8	0.8	38.6	46.0	-7.4
1.048	17.8	0.7	38.5	46.0	-7.5
1.352	17.2	0.7	37.9	46.0	-8.1
0.675	16.8	0.8	37.6	46.0	-8.4
0.827	16.3	0.8	37.1	46.0	-8.9
1.272	16.3	0.7	37.0	46.0	-9.0
1.424	15.9	0.7	36.6	46.0	-9.4
1.648	15.8	0.7	36.5	46.0	-9.5
1.120	15.6	0.7	36.3	46.0	-9.7
0.978	15.5	0.7	36.2	46.0	-9.8
0.150	23.4	2.3	45.7	56.0	-10.3
1.576	14.9	0.7	35.6	46.0	-10.4
1.880	14.7	0.7	35.4	46.0	-10.6
1.952	14.6	0.7	35.3	46.0	-10.7
0.601	14.0	0.8	34.8	46.0	-11.2
1.728	14.0	0.7	34.7	46.0	-11.3
8.270	17.3	0.9	38.2	50.0	-11.8
2.328	13.4	0.8	34.2	46.0	-11.8

NORTHWEST

EMC

CONDUCTED EMISSIONS

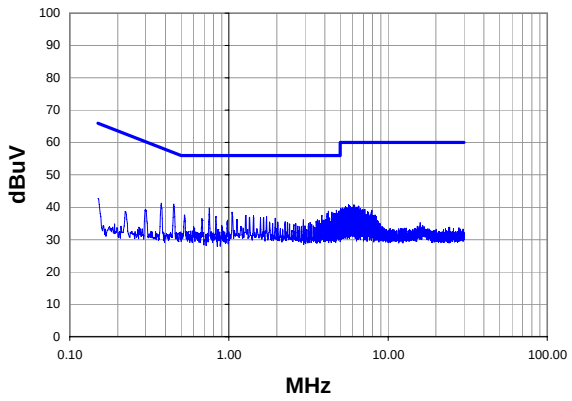
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Mid Channel				
Deviations:	None				
Comments:	None				

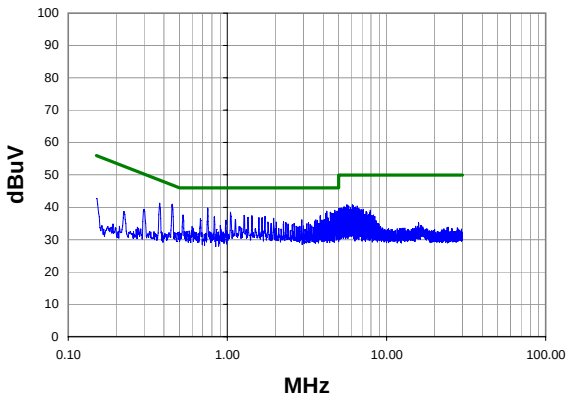
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	5	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	20.0	1.0	41.0	56.9	-15.9
0.753	18.9	0.8	39.7	56.0	-16.3
4.736	18.3	0.8	39.1	56.0	-16.9
0.376	20.2	1.1	41.3	58.4	-17.1
4.968	18.1	0.8	38.9	56.0	-17.1
4.216	18.0	0.8	38.8	56.0	-17.2
4.888	18.0	0.8	38.8	56.0	-17.2
1.048	17.8	0.7	38.5	56.0	-17.5
4.440	17.7	0.8	38.5	56.0	-17.5
4.512	17.4	0.8	38.2	56.0	-17.8
4.136	17.3	0.8	38.1	56.0	-17.9
4.592	17.3	0.8	38.1	56.0	-17.9
4.664	17.3	0.8	38.1	56.0	-17.9
4.816	17.3	0.8	38.1	56.0	-17.9
0.527	16.7	0.9	37.6	56.0	-18.4
3.840	16.7	0.8	37.5	56.0	-18.5
1.272	16.7	0.7	37.4	56.0	-18.6
1.424	16.7	0.7	37.4	56.0	-18.6
0.828	16.4	0.8	37.2	56.0	-18.8
1.728	16.5	0.7	37.2	56.0	-18.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	20.0	1.0	41.0	46.9	-5.9
0.753	18.9	0.8	39.7	46.0	-6.3
4.736	18.3	0.8	39.1	46.0	-6.9
0.376	20.2	1.1	41.3	48.4	-7.1
4.968	18.1	0.8	38.9	46.0	-7.1
4.216	18.0	0.8	38.8	46.0	-7.2
4.888	18.0	0.8	38.8	46.0	-7.2
1.048	17.8	0.7	38.5	46.0	-7.5
4.440	17.7	0.8	38.5	46.0	-7.5
4.512	17.4	0.8	38.2	46.0	-7.8
4.136	17.3	0.8	38.1	46.0	-7.9
4.592	17.3	0.8	38.1	46.0	-7.9
4.664	17.3	0.8	38.1	46.0	-7.9
4.816	17.3	0.8	38.1	46.0	-7.9
0.527	16.7	0.9	37.6	46.0	-8.4
3.840	16.7	0.8	37.5	46.0	-8.5
1.272	16.7	0.7	37.4	46.0	-8.6
1.424	16.7	0.7	37.4	46.0	-8.6
0.828	16.4	0.8	37.2	46.0	-8.8
1.728	16.5	0.7	37.2	46.0	-8.8

NORTHWEST

EMC

CONDUCTED EMISSIONS

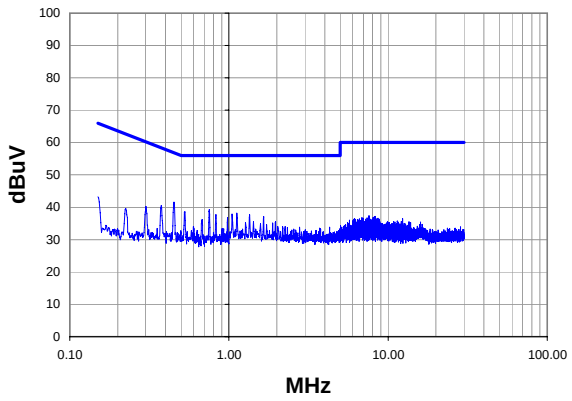
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Mid Channel				
Deviations:	None				
Comments:	None				

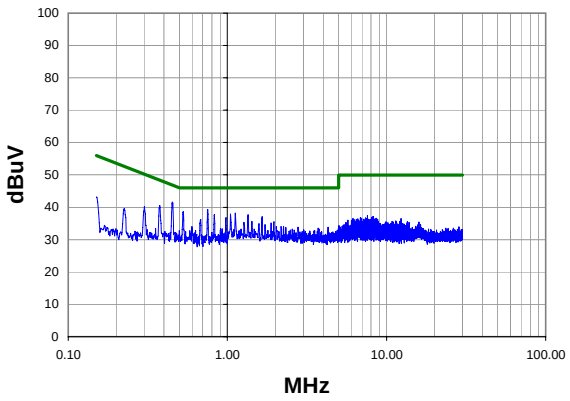
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	6	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	20.6	1.0	41.6	56.9	-15.3
0.752	18.4	0.8	39.2	56.0	-16.8
0.529	17.7	0.9	38.6	56.0	-17.4
0.376	19.5	1.1	40.6	58.4	-17.8
1.120	17.5	0.7	38.2	56.0	-17.8
1.048	17.2	0.7	37.9	56.0	-18.1
0.828	16.9	0.8	37.7	56.0	-18.3
1.352	17.0	0.7	37.7	56.0	-18.3
1.656	16.4	0.7	37.1	56.0	-18.9
0.978	16.1	0.7	36.8	56.0	-19.2
0.679	15.4	0.8	36.2	56.0	-19.8
0.301	19.1	1.1	40.2	60.2	-20.0
1.424	14.9	0.7	35.6	56.0	-20.4
1.960	14.8	0.7	35.5	56.0	-20.5
1.272	14.6	0.7	35.3	56.0	-20.7
1.880	14.4	0.7	35.1	56.0	-20.9
1.576	14.2	0.7	34.9	56.0	-21.1
1.728	13.9	0.7	34.6	56.0	-21.4
2.256	13.3	0.7	34.0	56.0	-22.0
2.176	13.3	0.7	34.0	56.0	-22.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	20.6	1.0	41.6	46.9	-5.3
0.752	18.4	0.8	39.2	46.0	-6.8
0.529	17.7	0.9	38.6	46.0	-7.4
0.376	19.5	1.1	40.6	48.4	-7.8
1.120	17.5	0.7	38.2	46.0	-7.8
1.048	17.2	0.7	37.9	46.0	-8.1
0.828	16.9	0.8	37.7	46.0	-8.3
1.352	17.0	0.7	37.7	46.0	-8.3
1.656	16.4	0.7	37.1	46.0	-8.9
0.978	16.1	0.7	36.8	46.0	-9.2
0.679	15.4	0.8	36.2	46.0	-9.8
0.301	19.1	1.1	40.2	50.2	-10.0
1.424	14.9	0.7	35.6	46.0	-10.4
1.960	14.8	0.7	35.5	46.0	-10.5
1.272	14.6	0.7	35.3	46.0	-10.7
1.880	14.4	0.7	35.1	46.0	-10.9
1.576	14.2	0.7	34.9	46.0	-11.1
1.728	13.9	0.7	34.6	46.0	-11.4
2.256	13.3	0.7	34.0	46.0	-12.0
2.176	13.3	0.7	34.0	46.0	-12.0

NORTHWEST

EMC

CONDUCTED EMISSIONS

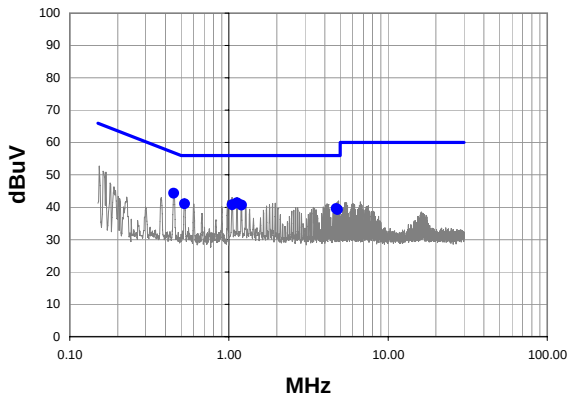
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	230V/50Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. High Channel				
Deviations:	None				
Comments:	None				

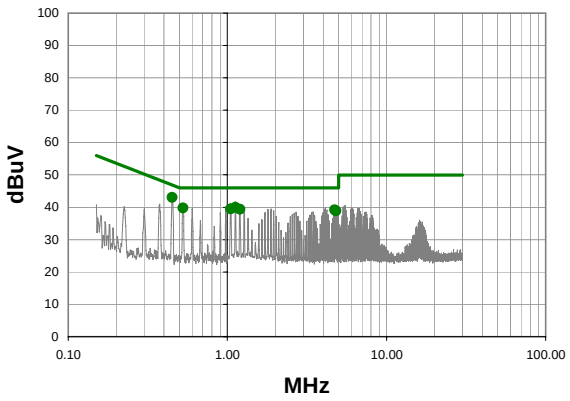
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	9	**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)
0.451	23.3	1.0	44.3	56.9	-12.6
1.128	20.6	0.7	41.3	56.0	-14.7
0.527	20.2	0.9	41.1	56.0	-14.9
1.052	20.1	0.7	40.8	56.0	-15.2
1.204	20.0	0.7	40.7	56.0	-15.3
4.740	18.8	0.8	39.6	56.0	-16.4
4.816	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)
0.451	22.0	1.0	43.0	46.9	-3.9
1.128	19.3	0.7	40.0	46.0	-6.0
0.527	18.9	0.9	39.8	46.0	-6.2
1.052	18.8	0.7	39.5	46.0	-6.5
1.204	18.7	0.7	39.4	46.0	-6.6
4.740	18.4	0.8	39.2	46.0	-6.8
4.816	18.1	0.8	38.9	46.0	-7.1

NORTHWEST

EMC

CONDUCTED EMISSIONS

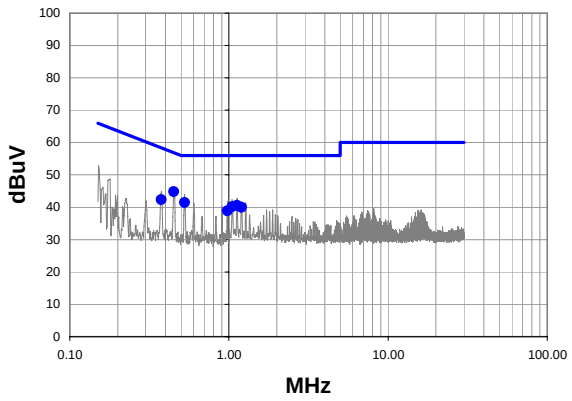
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	230V/50Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. High Channel				
Deviations:	None				
Comments:	None				

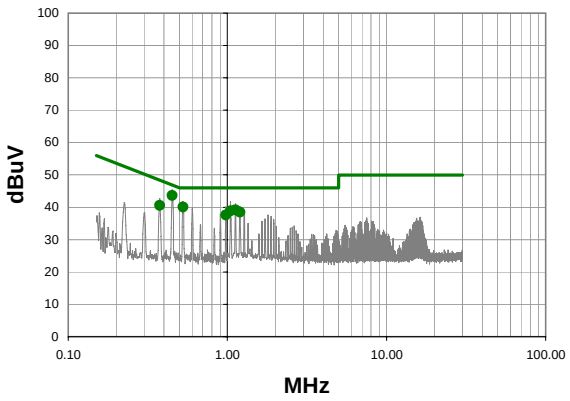
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	10	**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)
0.451	23.8	1.0	44.8	56.9	-12.1
0.526	20.5	0.9	41.4	56.0	-14.6
1.128	19.9	0.7	40.6	56.0	-15.4
1.052	19.5	0.7	40.2	56.0	-15.8
1.204	19.3	0.7	40.0	56.0	-16.0
0.376	21.2	1.1	42.3	58.4	-16.1
0.980	18.2	0.7	38.9	56.0	-17.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	22.6	1.0	43.6	46.9	-3.3
0.526	19.2	0.9	40.1	46.0	-5.9
1.128	18.5	0.7	39.2	46.0	-6.8
1.052	18.2	0.7	38.9	46.0	-7.1
1.204	17.8	0.7	38.5	46.0	-7.5
0.376	19.5	1.1	40.6	48.4	-7.8
0.980	16.9	0.7	37.6	46.0	-8.4

NORTHWEST

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CONDUCTED EMISSIONS

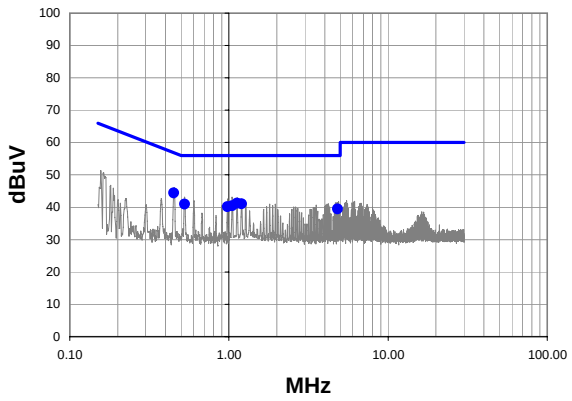
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	230V/50Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Mid Channel				
Deviations:	None				
Comments:	None				

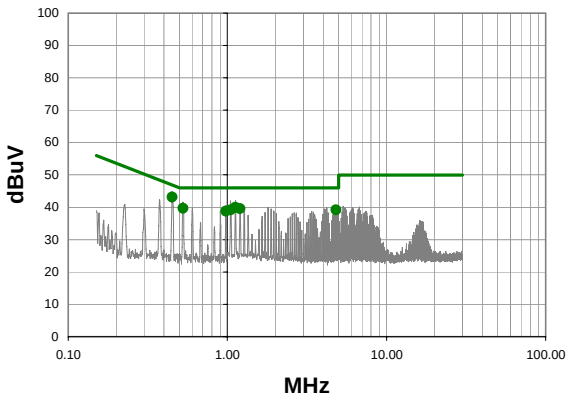
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	11	**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)
0.451	23.4	1.0	44.4	56.9	-12.5
1.128	20.5	0.7	41.2	56.0	-14.8
1.204	20.3	0.7	41.0	56.0	-15.0
0.526	20.1	0.9	41.0	56.0	-15.0
1.052	19.8	0.7	40.5	56.0	-15.5
0.978	19.4	0.7	40.1	56.0	-15.9
4.816	18.7	0.8	39.5	56.0	-16.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	22.1	1.0	43.1	46.9	-3.8
1.128	19.3	0.7	40.0	46.0	-6.0
0.526	18.8	0.9	39.7	46.0	-6.3
1.204	18.9	0.7	39.6	46.0	-6.4
1.052	18.5	0.7	39.2	46.0	-6.8
4.816	18.4	0.8	39.2	46.0	-6.8
0.978	18.1	0.7	38.8	46.0	-7.2

NORTHWEST

EMC

CONDUCTED EMISSIONS

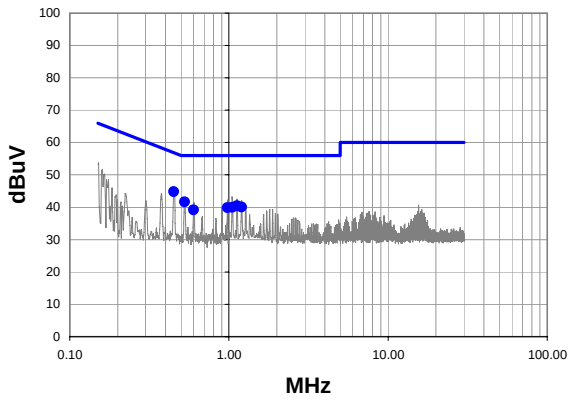
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	230V/50Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Mid Channel				
Deviations:	None				
Comments:	None				

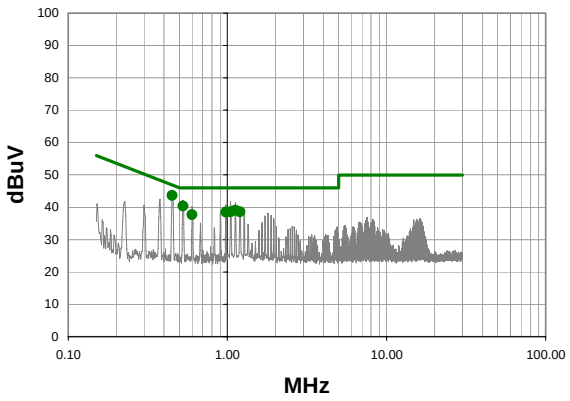
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	12	**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)
0.451	23.8	1.0	44.8	56.9	-12.1
0.527	20.7	0.9	41.6	56.0	-14.4
1.128	19.8	0.7	40.5	56.0	-15.5
1.204	19.4	0.7	40.1	56.0	-15.9
1.052	19.3	0.7	40.0	56.0	-16.0
0.978	19.1	0.7	39.8	56.0	-16.2
0.601	18.3	0.8	39.1	56.0	-16.9

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	22.6	1.0	43.6	46.9	-3.3
0.527	19.5	0.9	40.4	46.0	-5.6
1.128	18.4	0.7	39.1	46.0	-6.9
1.052	17.9	0.7	38.6	46.0	-7.4
1.204	17.9	0.7	38.6	46.0	-7.4
0.978	17.8	0.7	38.5	46.0	-7.5
0.601	16.8	0.8	37.6	46.0	-8.4

NORTHWEST

EMC

CONDUCTED EMISSIONS

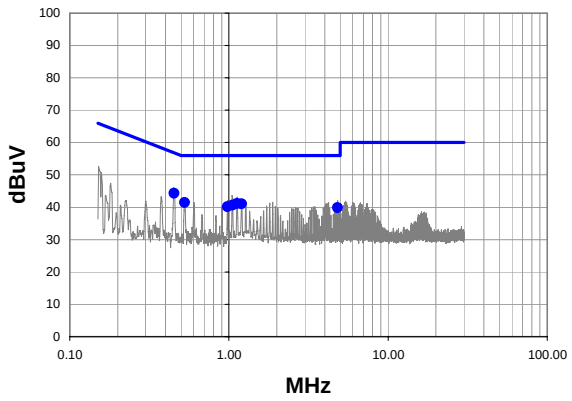
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	230V/50Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Low Channel				
Deviations:	None				
Comments:	None				

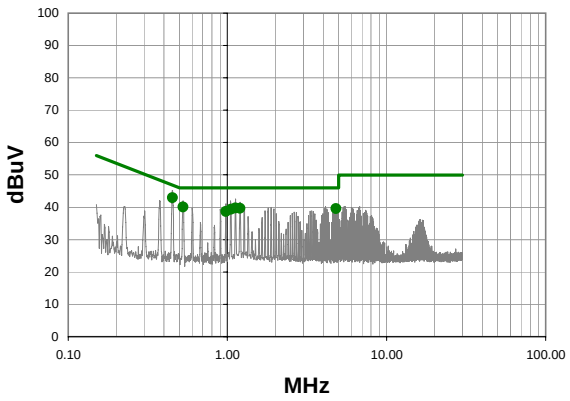
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

Run #	13	**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)
0.453	23.3	1.0	44.3	56.8	-12.5
0.527	20.5	0.9	41.4	56.0	-14.6
1.128	20.4	0.7	41.1	56.0	-14.9
1.204	20.3	0.7	41.0	56.0	-15.0
1.056	20.0	0.7	40.7	56.0	-15.3
0.980	19.4	0.7	40.1	56.0	-15.9
4.820	19.1	0.8	39.9	56.0	-16.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.453	21.9	1.0	42.9	46.8	-3.9
0.527	19.2	0.9	40.1	46.0	-5.9
1.128	19.1	0.7	39.8	46.0	-6.2
1.204	19.0	0.7	39.7	46.0	-6.3
4.820	18.8	0.8	39.6	46.0	-6.4
1.056	18.7	0.7	39.4	46.0	-6.6
0.980	18.0	0.7	38.7	46.0	-7.3

NORTHWEST

EMC

CONDUCTED EMISSIONS

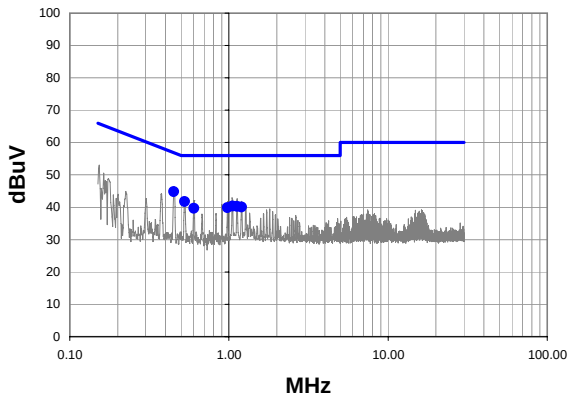
Version 2006.11.12
PSA-ESCI 2007.05.07

Work Order:	INMC0356	**Date:**	06/26/07		
Project:	None	**Temperature:**	24		
Job Site:	OC06	**Humidity:**	43		
Serial Number:	75107370	**Barometric Pres.:**	29.98	**Tested by:**	Jaemi Suh
EUT:	CV30				
Configuration:	1				
Customer:	Intermec Technologies Corporation				
Attendees:	None				
EUT Power:	230V/50Hz				
Operating Mode:	802.11 B/G Mode. 1 Mbps. Low Channel				
Deviations:	None				
Comments:	None				

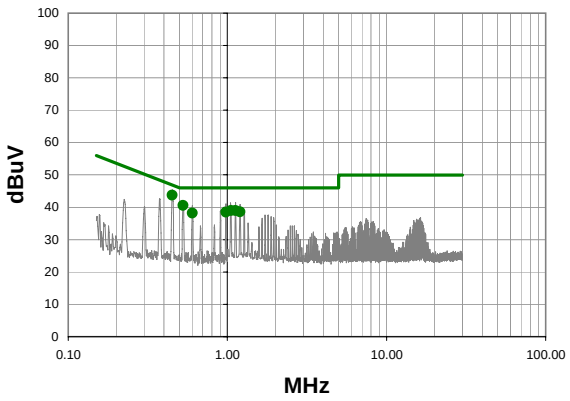
Test Specifications	**Test Method**
FCC 15.207:2006	ANSI C63.4:2003

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)
0.451	23.8	1.0	44.8	56.9	-12.1
0.527	20.8	0.9	41.7	56.0	-14.3
1.056	19.7	0.7	40.4	56.0	-15.6
1.128	19.6	0.7	40.3	56.0	-15.7
1.204	19.4	0.7	40.1	56.0	-15.9
0.980	19.1	0.7	39.8	56.0	-16.2
0.602	18.8	0.8	39.6	56.0	-16.4

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.451	22.7	1.0	43.7	46.9	-3.2
0.527	19.7	0.9	40.6	46.0	-5.4
1.056	18.3	0.7	39.0	46.0	-7.0
1.128	18.3	0.7	39.0	46.0	-7.0
1.204	17.9	0.7	38.6	46.0	-7.4
0.980	17.8	0.7	38.5	46.0	-7.5
0.602	17.3	0.8	38.1	46.0	-7.9

RADIATED EMISSIONS

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 Mode. Low Channel. (Channel 1)
802.11 Mode. Mid Channel. (Channel 6)
802.11 Mode. High Channel. (Channel 11)

MODE USED FOR FINAL DATA
802.11 Mode. High Channel. (Channel 11). All Data Rates.

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	13
Antenna, Horn	EMCO	3160-09	AHN	NCR	0
OC10 SMA cable for 18026 GHz			OCK	7/11/2006	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	10/13/2006	12
Antenna, Horn	ETS	3160-08	AHT	NCR	0
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	10/13/2006	12
Antenna, Horn	ETS	3160-07	AHR	NCR	24
OC10 cables a,b,c,e,f Horn Cables			OCJ	1/14/2007	13
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	1/14/2007	13
Antenna, Horn	EMCO	3115	AHB	8/1/2005	24
OC 10 Cables a, b, c, I Cables			OCO	1/14/2007	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 (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (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 EMC

RADIATED EMISSIONS DATA SHEET

PSA 2007.05.07
EMI 2006.4.26

EUT:	CV30			Work Order:	INMC0356
Serial Number:	07510737097			Date:	07/03/07
Customer:	Intermec Technologies Corporation			Temperature:	24
Attendees:	None			Humidity:	41%
Project:	None			Barometric Pres.:	29.92
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

None

EUT OPERATING MODES

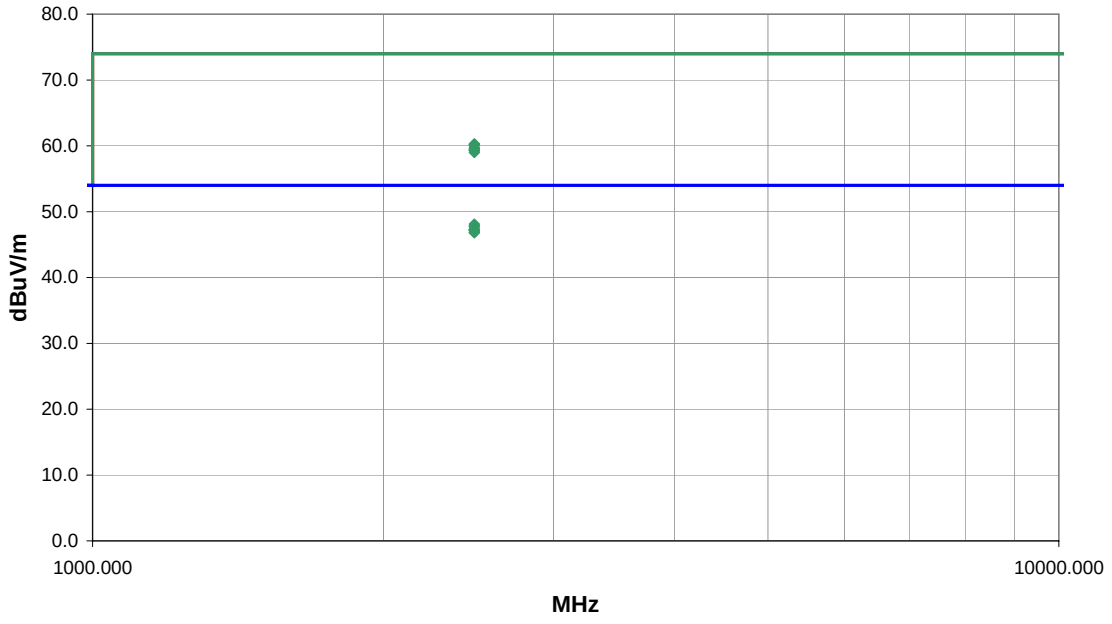
802.11 Mode. High Channel. (Channel 11). All Data Rates.

DEVIATIONS FROM TEST STANDARD

No deviations.

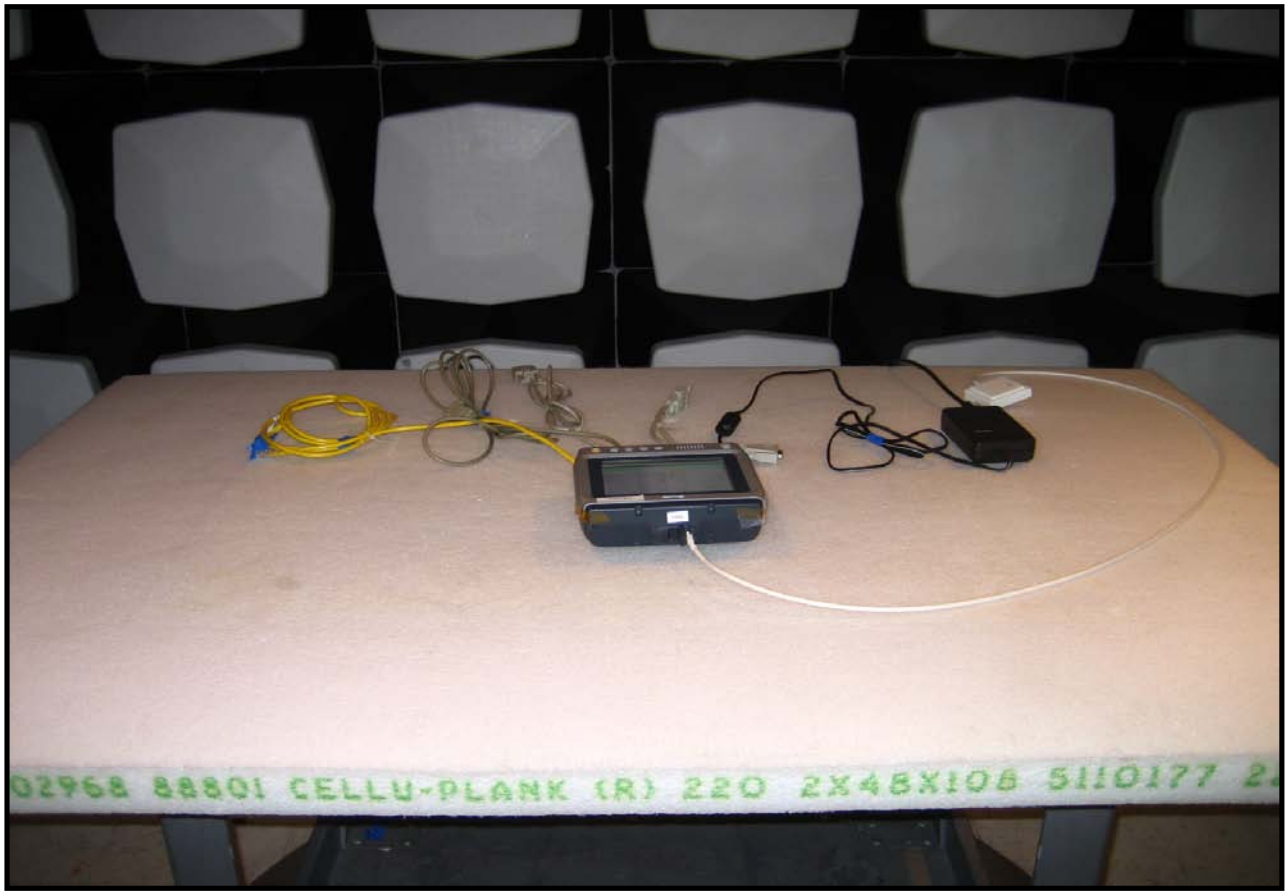
Run #	6
Configuration #	1
Results	Pass

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
2483.363	26.7	1.4	1.0	1.3	0.0	20.0	V-Horn	AV	0.0	48.1	54.0	-5.9	11 Mbps
2483.472	26.4	1.4	359.0	1.4	0.0	20.0	V-Horn	AV	0.0	47.8	54.0	-6.2	1 Mbps
2483.381	26.3	1.4	73.0	1.1	0.0	20.0	H-Horn	AV	0.0	47.7	54.0	-6.3	54 Mbps
2483.438	25.9	1.4	359.0	1.2	0.0	20.0	V-Horn	AV	0.0	47.3	54.0	-6.7	54 Mbps
2483.489	25.9	1.4	18.0	1.3	0.0	20.0	V-Horn	AV	0.0	47.3	54.0	-6.7	6 Mbps
2483.449	25.8	1.4	36.0	1.0	0.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8	1 Mbps
2483.451	25.8	1.4	6.0	1.2	0.0	20.0	V-Horn	AV	0.0	47.2	54.0	-6.8	36 Mbps
2483.462	25.8	1.4	204.0	1.2	0.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8	36 Mbps
2483.447	25.5	1.4	205.0	1.0	0.0	20.0	H-Horn	AV	0.0	46.9	54.0	-7.1	11 Mbps
2483.396	25.4	1.4	254.0	1.2	0.0	20.0	H-Horn	AV	0.0	46.8	54.0	-7.2	6 Mbps
2483.527	38.9	1.4	1.0	1.3	0.0	20.0	V-Horn	PK	0.0	60.3	74.0	-13.7	11 Mbps
2483.414	38.8	1.4	359.0	1.4	0.0	20.0	V-Horn	PK	0.0	60.2	74.0	-13.8	1 Mbps
2483.481	38.7	1.4	18.0	1.3	0.0	20.0	V-Horn	PK	0.0	60.1	74.0	-13.9	6 Mbps
2483.579	38.7	1.4	204.0	1.2	0.0	20.0	H-Horn	PK	0.0	60.1	74.0	-13.9	36 Mbps
2483.468	38.3	1.4	359.0	1.2	0.0	20.0	V-Horn	PK	0.0	59.7	74.0	-14.3	54 Mbps
2483.465	38.1	1.4	73.0	1.1	0.0	20.0	H-Horn	PK	0.0	59.5	74.0	-14.5	54 Mbps
2483.552	38.0	1.4	36.0	1.0	0.0	20.0	H-Horn	PK	0.0	59.4	74.0	-14.6	1 Mbps
2483.406	37.9	1.4	6.0	1.2	0.0	20.0	V-Horn	PK	0.0	59.3	74.0	-14.7	36 Mbps
2483.528	37.9	1.4	205.0	1.0	0.0	20.0	H-Horn	PK	0.0	59.3	74.0	-14.7	11 Mbps
2483.573	37.6	1.4	254.0	1.2	0.0	20.0	H-Horn	PK	0.0	59.0	74.0	-15.0	6 Mbps


CELLU-PLANK (R) 220 2X48X108 5110177 2229


02968 88801 CELLU-PLANK (R) 220 2X48X108 5110177