

# Intermec Technologies Corporation

**1000CP01, 1000CP02,  
1001CP01**

Tested to the following Specification:  
FCC 15.407:2010

Report No. INMC0650.2

Report Prepared By



[www.nwemc.com](http://www.nwemc.com)  
1-888-EMI-CERT

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**EMC Test Report**

## Certificate of Test

Last Date of Test: December 21, 2010  
Intermec Technologies Corporation  
Model: 1000CP01, 1000CP02, 1001CP01

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.407:2010	ANSI C63.10:2009	Pass

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

### Test Facility

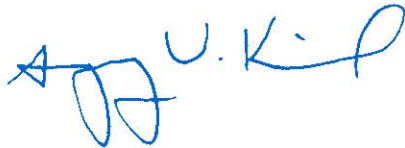
The measurement facility used to collect the data is located at:

Northwest EMC, Inc.  
22975 NW Evergreen Parkway, Suite 400  
Hillsboro, OR 97124

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 (Site filing #2834D-1).

Approved By:



Greg Kiemel, Director of Engineering



NVLAP Lab Code: 200630-0

*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
00	None		

**Barometric Pressure**

The recorded barometric pressure has been normalized to sea level.



# Accreditations and Authorizations

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## 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.

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## NVLAP

Northwest EMC, Inc. is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. NVLAP is administered by the National Institute of Standards and Technology (NIST), an agency of the U.S. Commerce Department. 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.

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## 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-Gen, Issue 2 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. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1*)

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## 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.

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## 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).

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# Accreditations and Authorizations

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## 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, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-1784, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634.*)

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## 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 (US0017).

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## 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

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## KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157, Brooklyn Park: US0175*)

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## VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.

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## SCOPE

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

<http://www.nwemc.com/accreditations/>



# Northwest EMC Locations



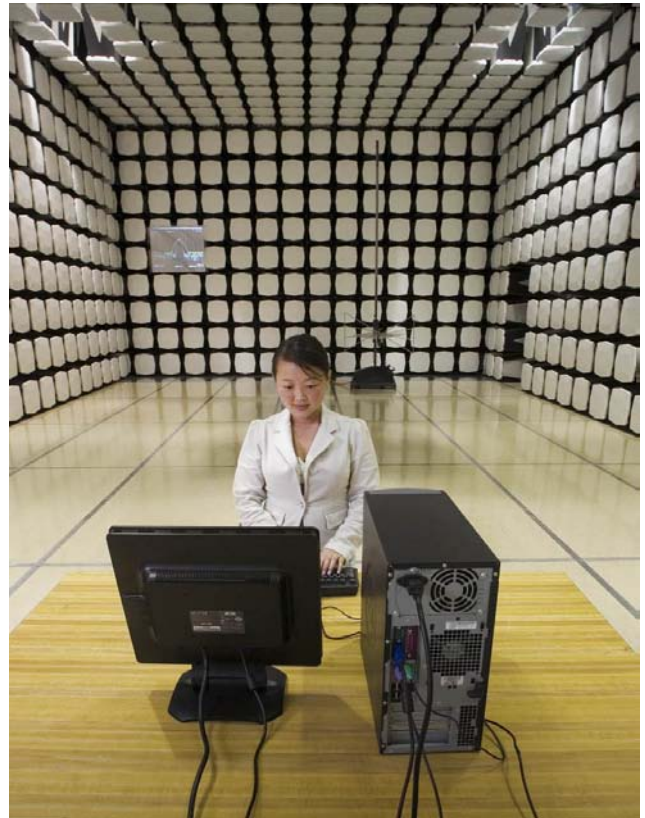
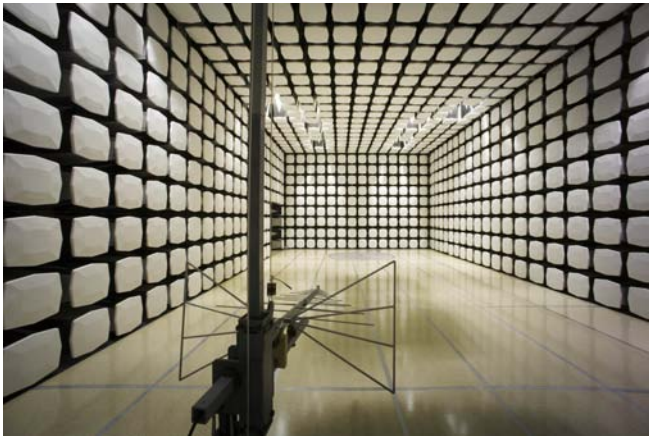
Oregon  
Labs EV01-EV12  
22975 NW Evergreen Pkwy  
Suite 400  
Hillsboro, OR 97124  
(503) 844-4066

California  
Labs OC01-OC13  
41 Tesla  
Irvine, CA 92618  
(949) 861-8918

Minnesota  
Labs MN01-MN08  
9349 W Broadway Ave.  
Brooklyn Park,  
MN 55445  
(763) 425-2281

Washington  
Labs SU01-SU07  
14128 339<sup>th</sup> Ave. SE  
Sultan, WA 98294  
(360) 793-8675

New York  
Labs WA01-WA04  
4939 Jordan Rd.  
Elbridge, NY 13060  
(315) 685-0796



## Party Requesting the Test

<b>Company Name:</b>	Intermec technologies Corporation
<b>Address:</b>	6001 36th Avenue West
<b>City, State, Zip:</b>	Everett, WA 98203-1264
<b>Test Requested By:</b>	Wayne Rieger
<b>Model:</b>	1000CP01, 1000CP02, 1001CP01
<b>First Date of Test:</b>	December 21, 2010
<b>Last Date of Test:</b>	December 21, 2010
<b>Receipt Date of Samples:</b>	December 6, 2010
<b>Equipment Design Stage:</b>	Production
<b>Equipment Condition:</b>	No Damage

## Information Provided by the Party Requesting the Test

**Functional Description of the EUT (Equipment Under Test):**

Handheld computers containing the Intermec Model RC12 radio module. The module is an 802.11 a/b/g/n - Bluetooth radio.

**Testing Objective:**

To demonstrate compliance with FCC 15.407 spurious radiated emissions requirement for the 802.11a/n portion of the radio. The RC12 radio module has been previously tested in a stand-alone configuration using a higher gain antenna of the same type. This testing in the Models 1000CP01, 1000CP02, and 1001CP01 handheld computers is done for an additional assurance of compliance.

**CONFIGURATION 1 INMC0650****Software/Firmware Running during test**

Description	Version
Regulatory Test Tool	RTT_1.01.00.0007

**EUT**

Description	Manufacturer	Model/Part Number	Serial Number
Data Terminal	Intermec Technologies Corporation	1000CP01	2831147092

**Peripherals in test setup boundary**

Description	Manufacturer	Model/Part Number	Serial Number
USB SNAPON	Intermec Technologies Corporation	225-773-001	HDI5P D-SUB, A3
Power Supply	Intermec Technologies Corporation	AE39	02061000875

**Cables**

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC power	No	1.8	No	Power Supply	AC Mains
Power	PA	1.8	PA	Power Supply	USB SNAPON
Serial to USB	Yes	0.2	Yes	USB SNAPON	USB Cable
USB	Yes	0.2	No	Serial to USB	Unterminated

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

**CONFIGURATION 2 INMC0650****Software/Firmware Running during test**

Description	Version
Regulatory Test Tool	RTT_1.01.00.0007

**EUT**

Description	Manufacturer	Model/Part Number	Serial Number
Data Terminal	Intermec Technologies Corporation	1000CP02	2831147193

**Peripherals in test setup boundary**

Description	Manufacturer	Model/Part Number	Serial Number
USB SNAPON	Intermec Technologies Corporation	225-773-001	HDI5P D-SUB, A3
Power Supply	Intermec Technologies Corporation	AE39	02061000875

**Cables**

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC power	No	1.8	No	Power Supply	AC Mains
Power	PA	1.8	PA	Power Supply	USB SNAPON
Serial to USB	Yes	0.2	Yes	USB SNAPON	USB Cable
USB	Yes	0.2	No	Serial to USB	Unterminated

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.



**CONFIGURATION 3 INMC0650****Software/Firmware Running during test**

Description	Version
Regulatory Test Tool	RTT_1.01.00.0007

**EUT**

Description	Manufacturer	Model/Part Number	Serial Number
Data Terminal	Intermec Technologies Corporation	1001CP01	2831147306

**Peripherals in test setup boundary**

Description	Manufacturer	Model/Part Number	Serial Number
USB SNAPON	Intermec Technologies Corporation	225-773-001	HDI5P D-SUB, A3
Power Supply	Intermec Technologies Corporation	AE39	02061000875

**Cables**

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC power	No	1.8	No	Power Supply	AC Mains
Power	PA	1.8	PA	Power Supply	USB SNAPON
Serial to USB	Yes	0.2	Yes	USB SNAPON	USB Cable
USB	Yes	0.2	No	Serial to USB	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	12/21/2010	Spurious Radiated Emission	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was 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**

Continuous Tx. 1 Mbps
Continuous Tx. 6 Mbps
Continuous Tx. 11 Mbps
Continuous Tx. 36 Mbps
Continuous Tx. 54Mbps
Continuous Tx. MCS0
Continuous Tx. MCS7

**FREQUENCIES INVESTIGATED**

Low Channel
Mid Channel
High Channel

**POWER SETTINGS INVESTIGATED**

120VAC/60Hz
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**FREQUENCY RANGE INVESTIGATED**

Start Frequency	30 MHz	Stop Frequency	40 GHz
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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
Spectrum Analyzer	Agilent	E4446A	AAQ	1/6/2010	12
High Pass Filter	Micro-Tronics	HPM50112	HGA	10/1/2009	13
5.725-5.875 Notch Filter	Micro-Tronics	BRC50705	HGJ	9/29/2010	13
5.47-5.725 Notch Filter	Micro-Tronics	BRC50704	HGI	9/29/2010	13
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	4/2/2010	13
OC Cable	ESM Cable Corp.	KMKM-72	OCV	11/3/2009	16
Cable	ESM Cable Corp.	KMKM-72	EYV	11/3/2009	16
EV12 Cables	N/A	Standard Gain Horn Cables	EVU	7/14/2010	13
EV12 Cables	N/A	Double Ridge Horn Cables	EVT	11/22/2010	13
EV12 Cables	N/A	Bilog Cables	EVS	7/14/2010	13
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVR	6/22/2010	13
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	12/15/2010	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	7/14/2010	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	7/14/2010	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	7/14/2010	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	7/14/2010	13
Antenna, Horn	ETS Lindgren	3160-10	AIW	NCR	0
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0
Antenna, Horn	ETS	3160-08	AIA	NCR	0
Antenna, Horn	ETS	3160.07	AHZ	9/8/2010	24
Antenna, Horn	ETS	3115	AIB	9/8/2010	24
Antenna, Biconilog	EMCO	3141	AXG	2/15/2010	13
Spectrum Analyzer	Agilent	E4440A	AAX	5/14/2010	12

**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**

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

**TEST DESCRIPTION**

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009).

The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a horn antenna. A signal generator was connected to the horn antenna and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the dipole antenna and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

EUT: 1000CP01	Work Order: INMC0650
Serial Number: 2831147092	Date: 12/21/10
Customer: Intermec technologies Corporation	Temperature: 22.7 °C
Attendees: None	Humidity: 31%
Project: None	Barometric Pres.: 1003.7 mb
Tested by: Dan Haas	Power: 120VAC/60Hz
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	Test Method
FCC 15.407:2010	ANSI C63.10:2009

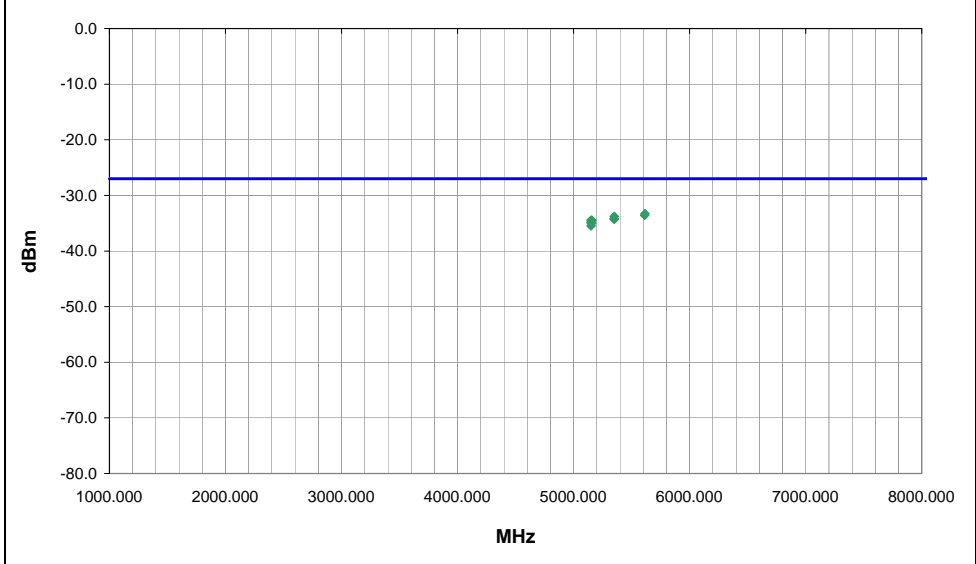
<b>TEST PARAMETERS</b>	
Antenna Height(s) (m) 1 - 2	Test Distance (m) 1

**COMMENTS**  
See Data Comments

**EUT OPERATING MODES**  
802.11 Continuous Transmit

**DEVIATIONS FROM TEST STANDARD**  
No deviations.

Run #	4	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5614.850	257.0	1.0	H-Horn	PK	4.71E-07	-33.3	-27.0	-6.3	Unit A2, Ch.36, 6Mbps, EUT on side.
5611.298	265.0	1.0	V-Horn	PK	4.39E-07	-33.6	-27.0	-6.6	Unit A2, Ch.36, 6Mbps, EUT on side.
5350.197	227.0	1.0	V-Horn	PK	4.20E-07	-33.8	-27.0	-6.8	Unit A2, Ch.64, 6Mbps, EUT on side.
5350.077	267.0	1.1	H-Horn	PK	3.83E-07	-34.2	-27.0	-7.2	Unit A2, Ch.64, MCS0, EUT on side.
5350.065	235.0	1.0	V-Horn	PK	3.74E-07	-34.3	-27.0	-7.3	Unit A2, Ch.64, MCS0, EUT on side.
5350.170	180.0	1.0	H-Horn	PK	3.74E-07	-34.3	-27.0	-7.3	Unit A2, Ch.64, 6Mbps, EUT on side.
5149.653	263.0	1.0	V-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	Unit A2, Ch.36, 6Mbps, EUT on side.
5157.017	221.0	1.0	V-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	Unit A2, Ch.100, 6Mbps, EUT on side.
5149.613	207.0	1.0	H-Horn	PK	3.33E-07	-34.8	-27.0	-7.8	Unit A2, Ch.36, 6Mbps, EUT on side.
5149.815	240.0	1.0	V-Horn	PK	3.18E-07	-35.0	-27.0	-8.0	Unit A2, Ch.36, MCS0, EUT on side.
5156.333	127.0	1.0	H-Horn	PK	3.18E-07	-35.0	-27.0	-8.0	Unit A2, Ch.100, 6Mbps, EUT on side.
5149.607	268.0	1.0	H-Horn	PK	2.84E-07	-35.5	-27.0	-8.5	Unit A2, Ch.36, MCS0, EUT on side.

EUT: 1000CP02	Work Order: INMC0650
Serial Number: 2831147193	Date: 12/21/10
Customer: Intermec technologies Corporation	Temperature: 22.6 °C
Attendees: None	Humidity: 31%
Project: None	Barometric Pres.: 1004.2 mb
Tested by: Dan Haas	Power: 120VAC/60Hz
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	Test Method
FCC 15.407:2010	ANSI C63.10:2009

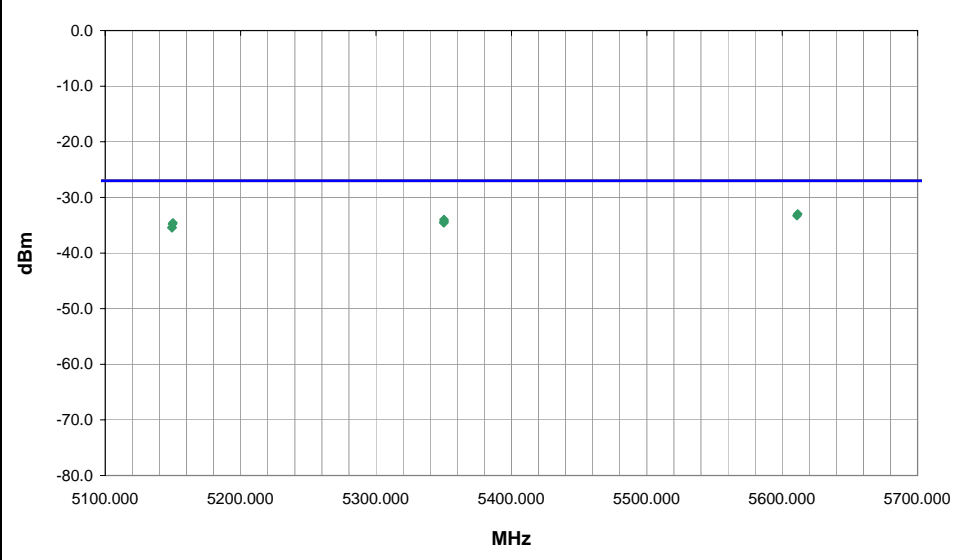
<b>TEST PARAMETERS</b>	
Antenna Height(s) (m) 1 - 2	Test Distance (m) 1

**COMMENTS**  
See Data Comments

**EUT OPERATING MODES**  
802.11 Continuous Transmit

**DEVIATIONS FROM TEST STANDARD**  
No deviations.

Run #	5	Signature 
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5611.442	174.0	1.0	H-Horn	PK	5.05E-07	-33.0	-27.0	-6.0	Unit B2, Ch.36, 6Mbps, EUT on side.
5610.908	306.0	1.0	V-Horn	PK	4.71E-07	-33.3	-27.0	-6.3	Unit B2, Ch.36, 6Mbps, EUT on side.
5350.233	280.0	1.0	H-Horn	PK	4.01E-07	-34.0	-27.0	-7.0	Unit B2, Ch.64, MCS0, EUT on side.
5350.262	238.0	1.0	V-Horn	PK	3.74E-07	-34.3	-27.0	-7.3	Unit B2, Ch.64, 6Mbps, EUT on side.
5350.017	190.0	1.0	V-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	Unit B2, Ch.64, MCS0, EUT on side.
5149.947	247.0	1.0	V-Horn	PK	3.49E-07	-34.6	-27.0	-7.6	Unit B2, Ch.36, MCS0, EUT on side.
5350.083	207.0	1.0	H-Horn	PK	3.49E-07	-34.6	-27.0	-7.6	Unit B2, Ch.64, 6Mbps, EUT on side.
5149.652	182.0	1.0	V-Horn	PK	3.33E-07	-34.8	-27.0	-7.8	Unit B2, Ch.36, 6Mbps, EUT on side.
5149.275	197.0	1.0	H-Horn	PK	2.90E-07	-35.4	-27.0	-8.4	Unit B2, Ch.36, MCS0, EUT on side.
5149.310	239.0	1.0	H-Horn	PK	2.84E-07	-35.5	-27.0	-8.5	Unit B2, Ch.36, 6Mbps, EUT on side.

EUT: 1001CP01	Work Order: INMC0650
Serial Number: 2831147306	Date: 12/21/10
Customer: Intermec technologies Corporation	Temperature: 22.6 °C
Attendees: None	Humidity: 30%
Project: None	Barometric Pres.: 1002.4 mb
Tested by: Dan Haas	Power: 120VAC/60Hz
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	Test Method
FCC 15.407:2010	ANSI C63.10:2009

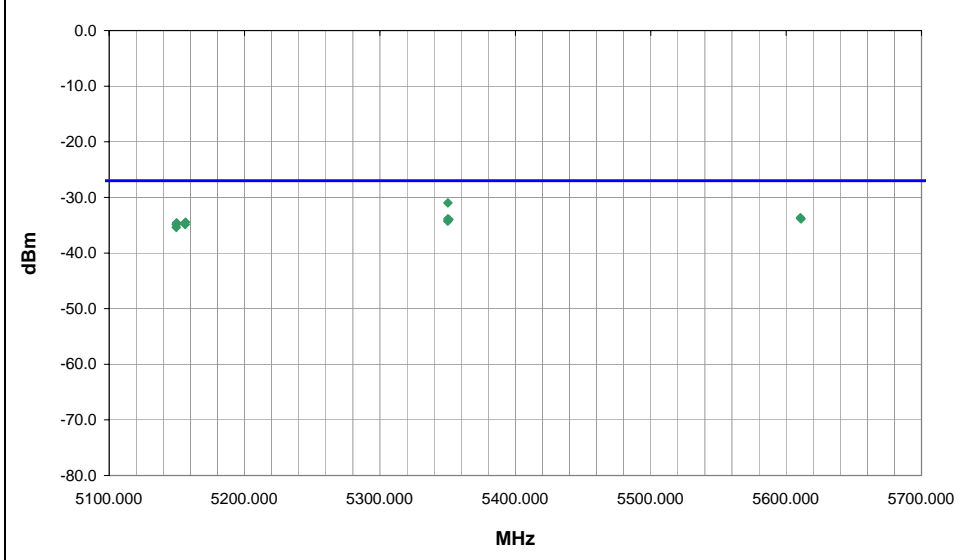
<b>TEST PARAMETERS</b>	
Antenna Height(s) (m) 1 - 2	Test Distance (m) 1

**COMMENTS**  
See Data Comments

**EUT OPERATING MODES**  
802.11 Continuous Transmit

**DEVIATIONS FROM TEST STANDARD**  
No deviations.

Run #	6	Signature 
Configuration #	3	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5350.177	304.0	1.0	H-Horn	PK	8.00E-07	-31.0	-27.0	-4.0	Unit C2, Ch.64, MCS0, EUT on side.
5610.528	327.0	1.0	H-Horn	PK	4.29E-07	-33.7	-27.0	-6.7	Unit C2, Ch.36, 6 Mbps, EUT on side.
5350.175	326.0	1.0	V-Horn	PK	4.10E-07	-33.9	-27.0	-6.9	Unit C2, Ch.64, MCS0, EUT on side.
5611.003	190.0	1.0	V-Horn	PK	4.10E-07	-33.9	-27.0	-6.9	Unit C2, Ch.36, 6 Mbps, EUT on side.
5350.917	315.0	1.0	H-Horn	PK	4.01E-07	-34.0	-27.0	-7.0	Unit C2, Ch.64, 6Mbps, EUT on side.
5350.087	302.0	1.0	V-Horn	PK	3.74E-07	-34.3	-27.0	-7.3	Unit C2, Ch.64, 6Mbps, EUT on side.
5156.348	329.0	1.0	H-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	Unit C2, Ch.100, 6 Mbps, EUT on side.
5149.755	302.0	1.0	V-Horn	PK	3.49E-07	-34.6	-27.0	-7.6	Unit C2, Ch.36, MCS0, EUT on side.
5149.855	326.0	1.0	H-Horn	PK	3.33E-07	-34.8	-27.0	-7.8	Unit C2, Ch.36, 6 Mbps, EUT on side.
5149.547	214.0	1.0	V-Horn	PK	3.26E-07	-34.9	-27.0	-7.9	Unit C2, Ch.36, 6 Mbps, EUT on side.
5156.113	209.0	1.0	V-Horn	PK	3.26E-07	-34.9	-27.0	-7.9	Unit C2, Ch.100, 6 Mbps, EUT on side.
5149.503	156.0	1.0	H-Horn	PK	2.90E-07	-35.4	-27.0	-8.4	Unit C2, Ch.36, MCS0, EUT on side.

EUT: 1000CP01	Work Order: INMC0650
Serial Number: 2831147092	Date: 12/21/10
Customer: Intermec technologies Corporation	Temperature: 22.7 °C
Attendees: none	Humidity: 31%
Project:	Barometric Pres.: 1003.7 mb
Tested by: Dan Haas	Power: 120VAC/60Hz
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	Test Method
FCC 15.205:2010	ANSI C63.10:2009

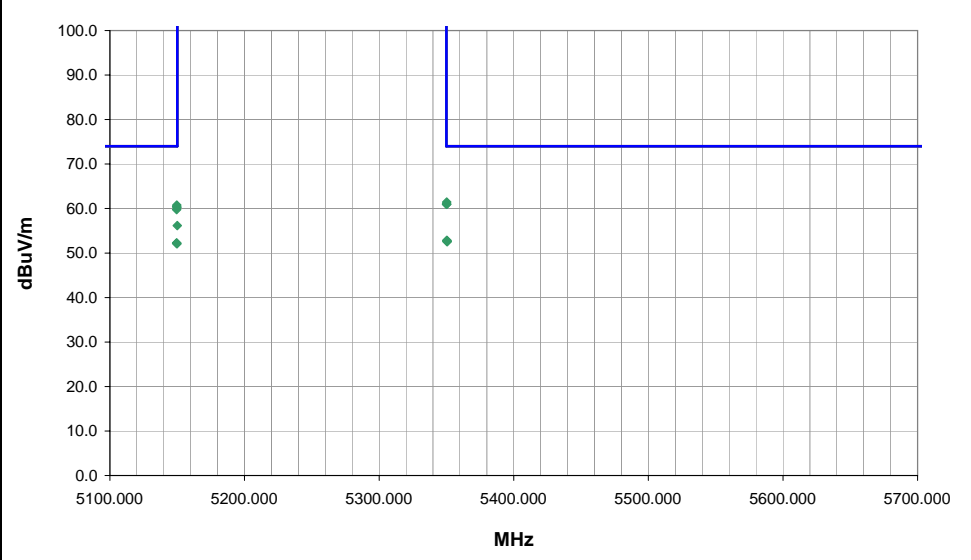
<b>TEST PARAMETERS</b>	
Antenna Height(s) (m) 1 - 2	Test Distance (m) 1

<b>COMMENTS</b>

<b>EUT OPERATING MODES</b>
802.11 Continuous Transmit

<b>DEVIATIONS FROM TEST STANDARD</b>
No deviations.

Run #	4	Signature 
Configuration #	1	
Results	Pass	



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
5350.197	34.3	36.7	227.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.5	74.0	-12.5	Unit A2, Ch.64, 6Mbps, EUT on side.
5350.077	33.9	36.7	267.0	1.1	1.0	0.0	H-Horn	PK	-9.5	61.1	74.0	-12.9	Unit A2, Ch.64, MCS0, EUT on side.
5350.065	33.8	36.7	235.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.0	74.0	-13.0	Unit A2, Ch.64, MCS0, EUT on side.
5350.170	33.8	36.7	180.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.0	74.0	-13.0	Unit A2, Ch.64, 6Mbps, EUT on side.
5149.653	34.1	36.2	263.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.8	74.0	-13.2	Unit A2, Ch.36, 6Mbps, EUT on side.
5149.613	33.8	36.2	207.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.5	74.0	-13.5	Unit A2, Ch.36, 6Mbps, EUT on side.
5149.815	33.6	36.2	240.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.3	74.0	-13.7	Unit A2, Ch.36, MCS0, EUT on side.
5149.607	33.1	36.2	268.0	1.0	1.0	0.0	H-Horn	PK	-9.5	59.8	74.0	-14.2	Unit A2, Ch.36, MCS0, EUT on side.
5149.987	29.5	36.2	263.0	1.0	1.0	0.0	V-Horn	AV	-9.5	56.2	74.0	-17.8	Unit A2, Ch.36, 6Mbps, EUT on side.
5350.315	25.7	36.7	267.0	1.1	1.0	0.0	H-Horn	AV	-9.5	52.9	74.0	-21.1	Unit A2, Ch.64, MCS0, EUT on side.
5350.271	25.6	36.7	180.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.8	74.0	-21.2	Unit A2, Ch.64, 6Mbps, EUT on side.
5350.465	25.4	36.7	227.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.6	74.0	-21.4	Unit A2, Ch.64, 6Mbps, EUT on side.
5350.528	25.4	36.7	235.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.6	74.0	-21.4	Unit A2, Ch.64, MCS0, EUT on side.
5149.555	25.6	36.2	268.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.3	74.0	-21.7	Unit A2, Ch.36, MCS0, EUT on side.
5149.617	25.6	36.2	240.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.3	74.0	-21.7	Unit A2, Ch.36, MCS0, EUT on side.
5149.854	25.4	36.2	207.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.1	74.0	-21.9	Unit A2, Ch.36, 6Mbps, EUT on side.

EUT: 1000CP02	Work Order: INMC0650
Serial Number: 2831147193	Date: 12/21/10
Customer: Intermec technologies Corporation	Temperature: 22.6 °C
Attendees: none	Humidity: 31%
Project:	Barometric Pres.: 1004.2 mb
Tested by: Dan Haas	Power: 120VAC/60Hz
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	Test Method
FCC 15.205:2010	ANSI C63.10:2009

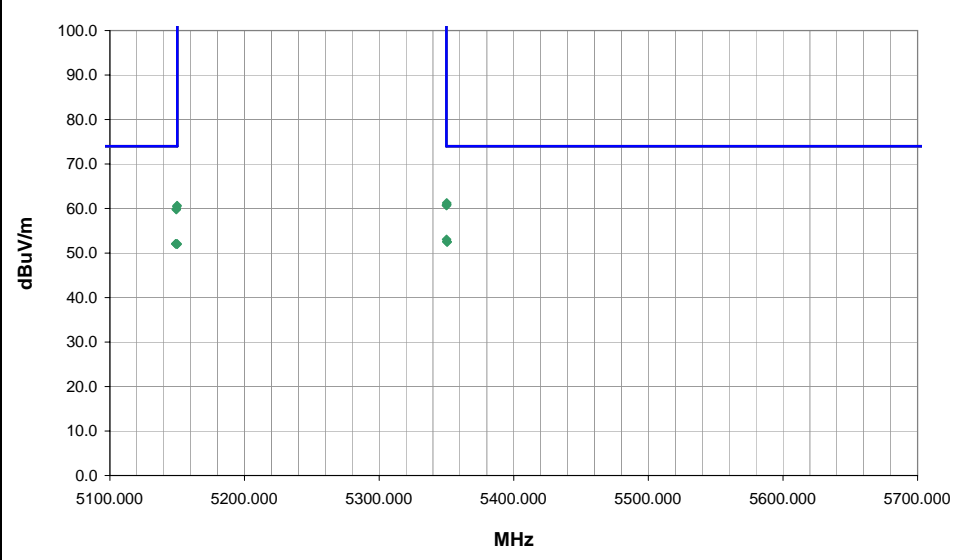
<b>TEST PARAMETERS</b>	
Antenna Height(s) (m) 1 - 2	Test Distance (m) 1

<b>COMMENTS</b>

<b>EUT OPERATING MODES</b>
802.11 Continuous Transmit

<b>DEVIATIONS FROM TEST STANDARD</b>
No deviations.

Run #	5	Signature 
Configuration #	2	
Results	Pass	



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
5350.233	34.1	36.7	280.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.3	74.0	-12.7	Unit B2, Ch.64, MCS0, EUT on side.
5350.262	33.8	36.7	238.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.0	74.0	-13.0	Unit B2, Ch.64, 6Mbps, EUT on side.
5350.017	33.6	36.7	190.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.8	74.0	-13.2	Unit B2, Ch.64, MCS0, EUT on side.
5149.947	34.0	36.2	247.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.7	74.0	-13.3	Unit B2, Ch.36, MCS0, EUT on side.
5350.083	33.5	36.7	207.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.7	74.0	-13.3	Unit B2, Ch.64, 6Mbps, EUT on side.
5149.652	33.8	36.2	182.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.5	74.0	-13.5	Unit B2, Ch.36, 6Mbps, EUT on side.
5149.275	33.2	36.2	197.0	1.0	1.0	0.0	H-Horn	PK	-9.5	59.9	74.0	-14.1	Unit B2, Ch.36, MCS0, EUT on side.
5149.310	33.1	36.2	239.0	1.0	1.0	0.0	H-Horn	PK	-9.5	59.8	74.0	-14.2	Unit B2, Ch.36, 6Mbps, EUT on side.
5350.107	25.9	36.7	280.0	1.0	1.0	0.0	H-Horn	AV	-9.5	53.1	74.0	-20.9	Unit B2, Ch.64, MCS0, EUT on side.
5350.290	25.4	36.7	238.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.6	74.0	-21.4	Unit B2, Ch.64, 6Mbps, EUT on side.
5350.367	25.4	36.7	190.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.6	74.0	-21.4	Unit B2, Ch.64, MCS0, EUT on side.
5350.543	25.3	36.7	207.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.5	74.0	-21.5	Unit B2, Ch.64, 6Mbps, EUT on side.
5148.828	25.4	36.2	239.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.1	74.0	-21.9	Unit B2, Ch.36, 6Mbps, EUT on side.
5148.952	25.4	36.2	197.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.1	74.0	-21.9	Unit B2, Ch.36, MCS0, EUT on side.
5149.961	25.4	36.2	247.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.1	74.0	-21.9	Unit B2, Ch.36, MCS0, EUT on side.
5149.962	25.3	36.2	182.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.0	74.0	-22.0	Unit B2, Ch.36, 6Mbps, EUT on side.



NORTHWEST **EMC RADIATED EMISSIONS DATA SHEET** PSA 2008.07.21  
EMI 2008.1.9

EUT: 1001CP01	Work Order: INMC0650
Serial Number: 2831147306	Date: 12/21/10
Customer: Intermec technologies Corporation	Temperature: 22.6 °C
Attendees: none	Humidity: 30%
Project:	Barometric Pres.: 1002.4 mb
Tested by: Dan Haas	Power: 120VAC/60Hz
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	Test Method
FCC 15.205:2010	ANSI C63.10:2009

<b>TEST PARAMETERS</b>	
Antenna Height(s) (m)	1 - 2
Test Distance (m)	1

**COMMENTS**

**EUT OPERATING MODES**

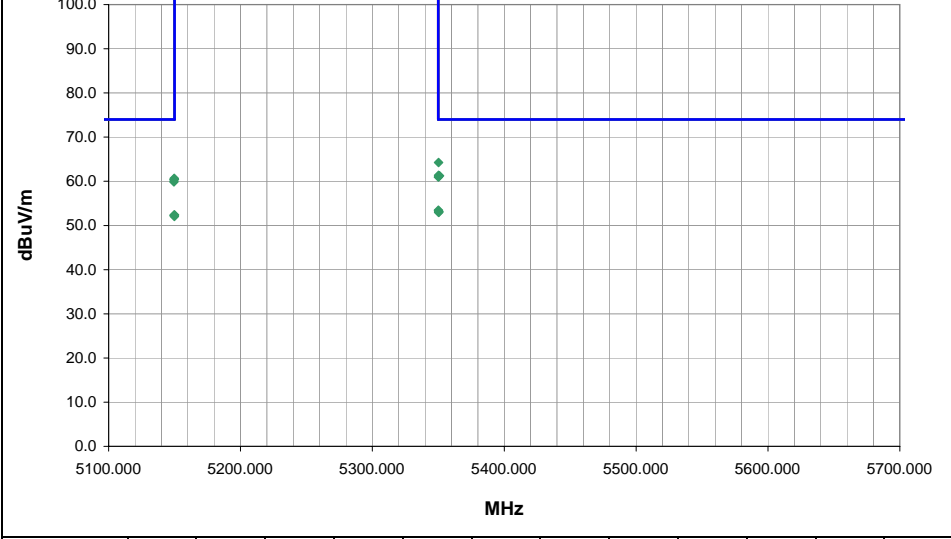
802.11 Continuous Transmit

**DEVIATIONS FROM TEST STANDARD**

No deviations.

Run #	6
Configuration #	3
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
5350.177	37.1	36.7	304.0	1.0	1.0	0.0	H-Horn	PK	-9.5	64.3	74.0	-9.7	Unit C2, Ch.64, MCS0, EUT on side.
5350.175	34.2	36.7	326.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.4	74.0	-12.6	Unit C2, Ch.64, MCS0, EUT on side.
5350.917	34.1	36.7	315.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.3	74.0	-12.7	Unit C2, Ch.64, 6Mbps, EUT on side.
5350.087	33.9	36.6	302.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.0	74.0	-13.0	Unit C2, Ch.64, 6Mbps, EUT on side.
5149.755	34.0	36.2	302.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.7	74.0	-13.3	Unit C2, Ch.36, MCS0, EUT on side.
5149.855	33.8	36.2	326.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.5	74.0	-13.5	Unit C2, Ch.36, 6 Mbps, EUT on side.
5149.547	33.7	36.2	214.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.4	74.0	-13.6	Unit C2, Ch.36, 6 Mbps, EUT on side.
5149.503	33.2	36.2	156.0	1.0	1.0	0.0	H-Horn	PK	-9.5	59.9	74.0	-14.1	Unit C2, Ch.36, MCS0, EUT on side.
5350.019	26.3	36.7	304.0	1.0	1.0	0.0	H-Horn	AV	-9.5	53.5	74.0	-20.5	Unit C2, Ch.64, MCS0, EUT on side.
5350.455	26.0	36.7	302.0	1.0	1.0	0.0	V-Horn	AV	-9.5	53.2	74.0	-20.8	Unit C2, Ch.64, 6Mbps, EUT on side.
5350.165	25.9	36.7	315.0	1.0	1.0	0.0	H-Horn	AV	-9.5	53.1	74.0	-20.9	Unit C2, Ch.64, 6Mbps, EUT on side.
5350.258	25.8	36.7	326.0	1.0	1.0	0.0	V-Horn	AV	-9.5	53.0	74.0	-21.0	Unit C2, Ch.64, MCS0, EUT on side.
5149.703	25.7	36.2	326.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.4	74.0	-21.6	Unit C2, Ch.36, 6 Mbps, EUT on side.
5149.968	25.7	36.2	302.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.4	74.0	-21.6	Unit C2, Ch.36, MCS0, EUT on side.
5149.671	25.6	36.2	214.0	1.0	1.0	0.0	V-Horn	AV	-9.5	52.3	74.0	-21.7	Unit C2, Ch.36, 6 Mbps, EUT on side.
5149.915	25.4	36.2	156.0	1.0	1.0	0.0	H-Horn	AV	-9.5	52.1	74.0	-21.9	Unit C2, Ch.36, MCS0, EUT on side.