

Intermec Technologies Corporation

1000CP01C
1000CP02C
1001CP01C

Tested to the following Specifications:

FCC 22H:2011
FCC 24E:2011

Report No. INMC0664

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

Last Date of Test: February 22, 2011
Intermec Technologies Corporation
Model: 1000CP01C, 1000CP02C, 1001CP01C

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Out of Band Emissions	FCC 22H:2011	ANSI/TIA/EIA-603-C-2004	Pass
Out of Band Emissions	FCC 24E:2011	ANSI/TIA/EIA-603-C-2004	Pass
Effective Radiated Power (ERP)	FCC 22H:2011	ANSI/TIA/EIA-603-C-2004	Pass
Effective Radiated Power (EIRP)	FCC 24E:2011	ANSI/TIA/EIA-603-C-2004	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-2).

Approved By:

 Donald Facteau, IT Manager



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

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 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.

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*)

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.

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).



Accreditations and Authorizations

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.*)

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).

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

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*)

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.

SCOPE

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

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



Northwest EMC Locations



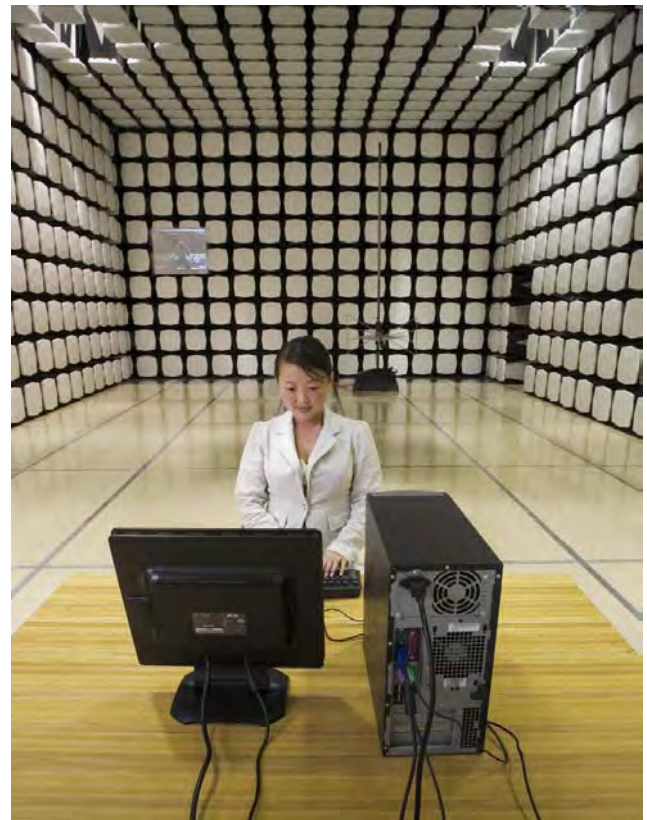
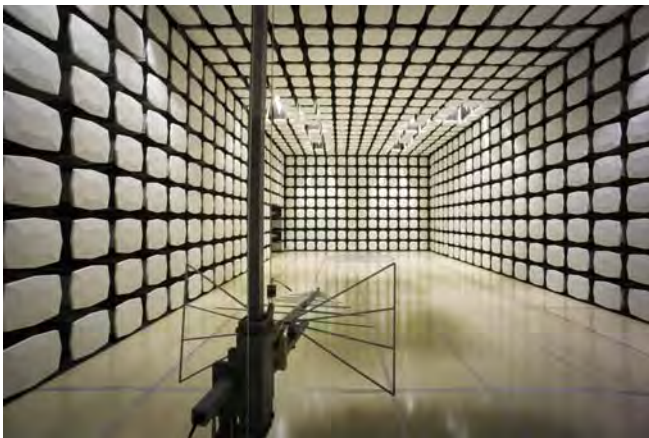
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

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 339th 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

Company Name:	Intermec Technologies Corporation
Address:	6001 36th Avenue West
City, State, Zip:	Everett, WA 98203-1264
Test Requested By:	Wayne Rieger
Model:	1000CP01C, 1000CP02C, 1001CP01C
First Date of Test:	2/18/2011
Last Date of Test:	2/22/2011
Receipt Date of Samples:	2/18/2011
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

Handheld computers containing two radio modules. One is the Sierra Wireless Model MC5728V, which is a CDMA (EVDO Rev A) radio module. The other is the Intermec Model RC12, which is an 802.11a/b/g/n – Bluetooth radio module

Testing Objective:

To demonstrate compliance with FCC 22H and FCC 24E requirements for spurious radiated emissions and radiated power. The antenna port conducted measurements are documented in a separate report.

CONFIGURATION 1 INMC0664**Software/Firmware Running during test**

Description	Version
Windows Mobile	6.5

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Handheld Computer	Intermec Technologies Corp	1001CP01C	24511047145

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Power Supply	Intermec Technologies Corp	AE39	02061000875
USB SNAPON	Intermec Technologies Corp	225-773-001	HDIP D-SUB, A3
Battery Pack	Intermec Technologies Corp	1001AB01	16661001477

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8m	No	Power Supply	AC Mains
DC Leads	No	1.8m	Yes	SNAPON	Power Supply

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

CONFIGURATION 2 INMC0664**Software/Firmware Running during test**

Description	Version
Windows Mobile	6.5

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Handheld Computer	Intermec Technologies Corp	1000CP02C	24511047014

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Power Supply	Intermec Technologies Corp	AE39	02061000875
USB SNAPON	Intermec Technologies Corp	225-773-001	HDIP D-SUB, A3
Battery Pack	Intermec Technologies Corp	1000AB01	16961000158

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8m	No	Power Supply	AC Mains
DC Leads	No	1.8m	Yes	SNAPON	Power Supply

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

CONFIGURATION 3 INMC0664**Software/Firmware Running during test**

Description	Version
Windows Mobile	6.5

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Handheld Computer	Intermec Technologies Corp	1000CP01C	24411047085

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Power Supply	Intermec Technologies Corp	AE39	02061000875
USB SNAPON	Intermec Technologies Corp	225-773-001	HDIP D-SUB, A3
Battery Pack	Intermec Technologies Corp	1000AB01	16961000158

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8m	No	Power Supply	AC Mains
DC Leads	No	1.8m	Yes	SNAPON	Power Supply

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	2/18/2011	Out of Band 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	2/22/2011	ERP Part 22H, EIRP Part 24E	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.

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

Transmitting, All bits up, 1xEV-DO Rev A
 Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH)

CHANNELS TESTED

Low = Ch.1013, 824.7MHz
 Mid = Ch. 384, 836.52MHz
 High = Ch. 777, 848.31MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 10 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
Universal Radio Communication Tester	Rhode & Schwarz	CMU200	BSU	NCR	0
Spectrum Analyzer	Agilent	E4440	AFE	11/29/2010	12
Antenna, Biconilog	EMCO	3141	AXG	2/15/2010	13
EV12 Cables	N/A	Bilog Cables	EVS	7/14/2010	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	7/14/2010	13
Antenna, Horn	ETS	3115	AIB	9/8/2010	24
EV12 Cables	N/A	Double Ridge Horn Cables	EVT	11/22/2010	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	7/14/2010	13
Antenna, Horn	ETS	3160.07	AHZ	9/8/2010	24
EV12 Cables	N/A	Standard Gain Horn Cables	EVU	7/14/2010	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	7/14/2010	13
Antenna, Horn	EMCO	3115	AHE	10/22/2009	24
Power Meter	Gigatronics	8651A	SPM	1/7/2010	16
Power Sensor	Gigatronics	80701A	SPL	1/7/2010	16
Signal Generator	Agilent	E8257D	TGX	12/10/2008	27

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

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 highest gain antenna to be used with the EUT was tested for final measurements. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

For licensed transmitters, the FCC references TIA/EIA-603 as the measurement procedure standard. TIA/EIA-603 Section 2.2.12 describes a method for measuring radiated spurious emissions that utilizes an antenna substitution method:

At an approved test site, the transmitter is placed on a remotely controlled turntable, and the measurement antenna is placed 3 meters from the transmitter. The turntable azimuth is varied to maximize the level of spurious emissions. The height of the measurement antenna is also varied from 1 to 4 meters. The amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a ½ wave dipole that is successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency. The output of the signal generator is recorded, and by factoring in the cable loss to the antenna and its gain; the power (dBm) into an ideal ½ wave dipole antenna is determined for each radiated spurious emission.

For the purposes of preliminary measurements, the field strength of the spurious emissions can be measured and compared with a 3 meter limit. The 3 meter limit was calculated to be 82.5 dBuV/m at 3 meters. The final measurements must be made utilizing the substitution method described above.

EMC OUT OF BAND EMISSIONS - PART 22H

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/17/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 22H:2011	ANSI/TIA/EIA-603-C-2004

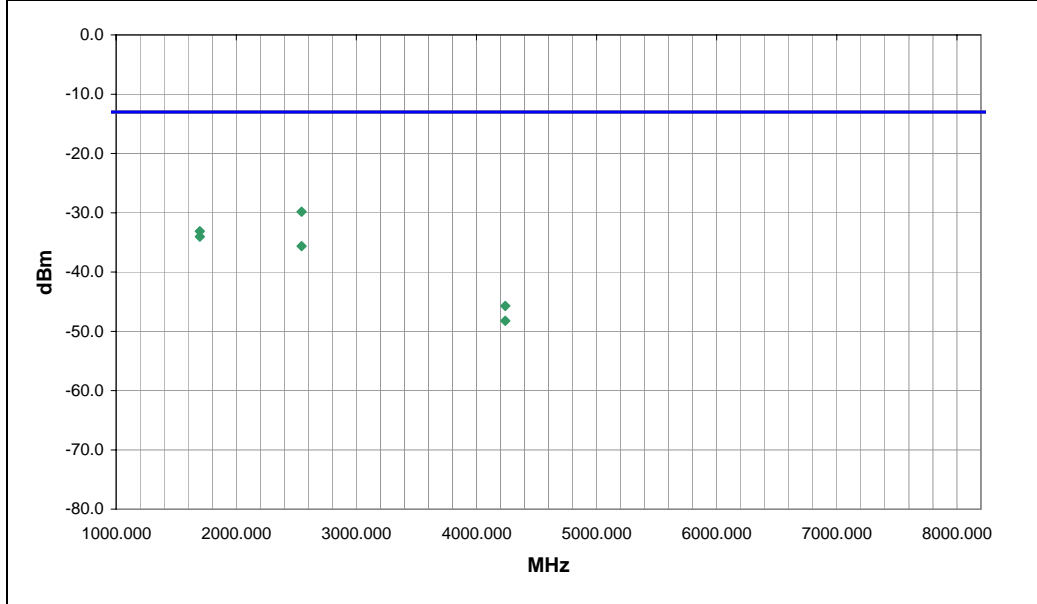
TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO, Cell

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	5	 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
2543.922	197.0	1.0	V-Horn	PK	1.04E-06	-29.8	-13.0	-16.8	High channel, EUT on side
1696.392	10.0	1.0	H-Horn	PK	4.87E-07	-33.1	-13.0	-20.1	High channel, EUT horizontal
1696.292	296.0	1.1	V-Horn	PK	3.95E-07	-34.0	-13.0	-21.0	High channel, EUT on side
2543.863	251.0	1.0	H-Horn	PK	2.74E-07	-35.6	-13.0	-22.6	High channel, EUT horizontal
4240.033	315.0	1.0	V-Horn	PK	2.67E-08	-45.7	-13.0	-32.7	High channel, EUT on side
4239.167	58.0	1.0	H-Horn	PK	1.50E-08	-48.2	-13.0	-35.2	High channel, EUT horizontal

OUT OF BAND EMISSIONS - PART 22H

EMC

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/18/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 22H:2011	ANSI/TIA/EIA-603-C-2004

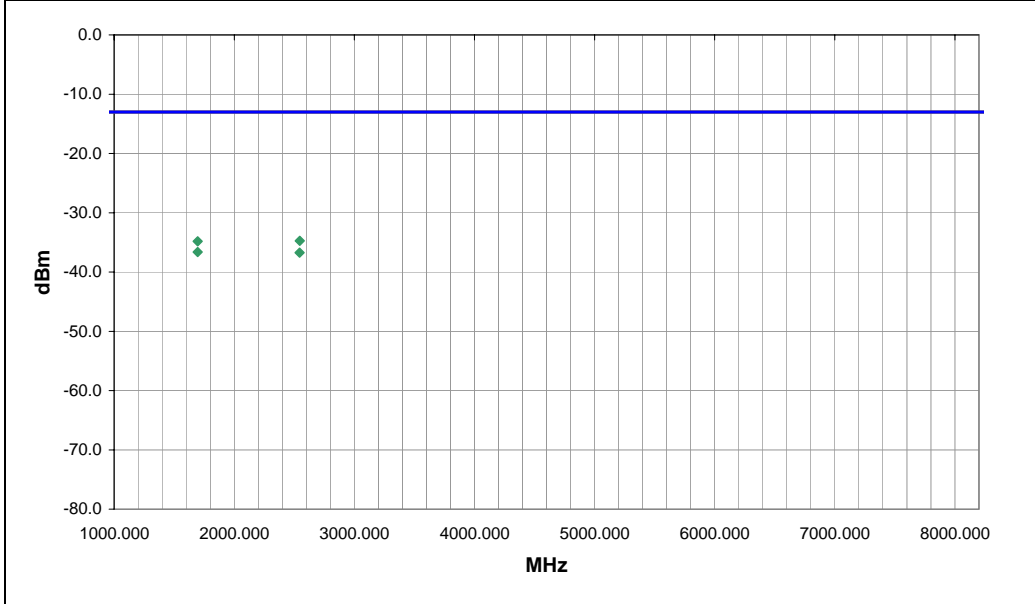
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH), Cell

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	9	 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
2545.830	217.0	1.0	V-Horn	PK	3.37E-07	-34.7	-13.0	-21.7	High channel, EUT on side
1695.913	17.0	1.0	H-Horn	PK	3.29E-07	-34.8	-13.0	-21.8	High channel, EUT horizontal
1696.020	250.0	1.1	V-Horn	PK	2.17E-07	-36.6	-13.0	-23.6	High channel, EUT on side
2544.097	274.0	1.0	H-Horn	PK	2.12E-07	-36.7	-13.0	-23.7	High channel, EUT horizontal

EMC OUT OF BAND EMISSIONS - PART 22H

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/18/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS		Test Method	
FCC 22H:2011		ANSI/TIA/EIA-603-C-2004	

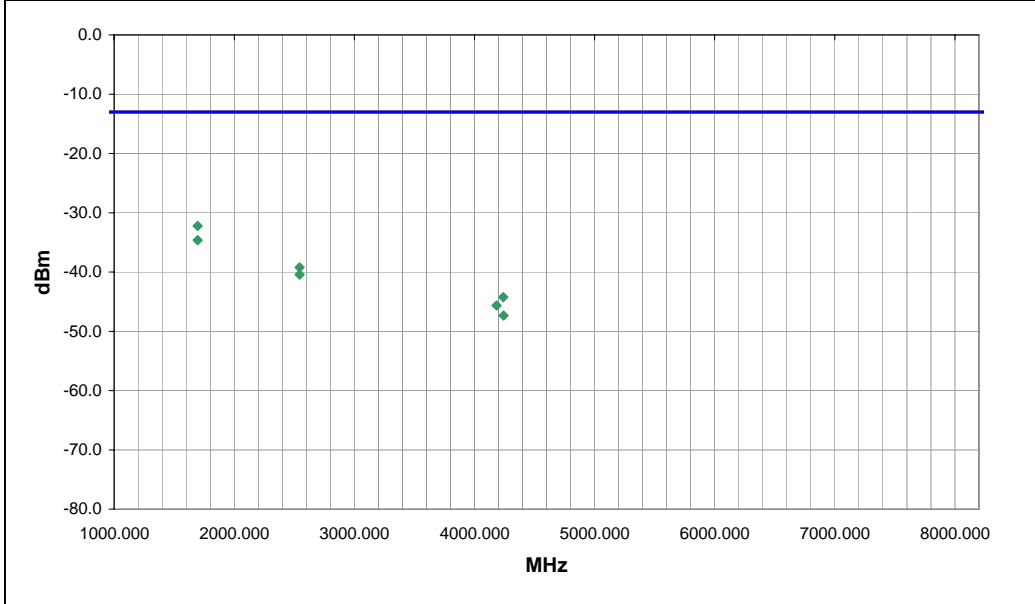
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO, Cell

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	8	 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
1695.867	105.0	1.0	H-Horn	PK	5.99E-07	-32.2	-13.0	-19.2	High channel, EUT horizontal
1695.987	301.0	1.1	V-Horn	PK	3.44E-07	-34.6	-13.0	-21.6	High channel, EUT on side
2543.963	13.0	1.0	V-Horn	PK	1.19E-07	-39.2	-13.0	-26.2	High channel, EUT on side
2543.983	40.0	1.3	H-Horn	PK	9.06E-08	-40.4	-13.0	-27.4	High channel, EUT horizontal
4240.137	333.0	1.0	V-Horn	PK	3.78E-08	-44.2	-13.0	-31.2	High channel, EUT on side
4183.500	205.0	1.0	H-Horn	PK	2.74E-08	-45.6	-13.0	-32.6	Mid channel, EUT horizontal
4242.663	271.0	1.0	H-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	High channel, EUT horizontal

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/18/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 22H:2011	Test Method ANSI/TIA/EIA-603-C-2004

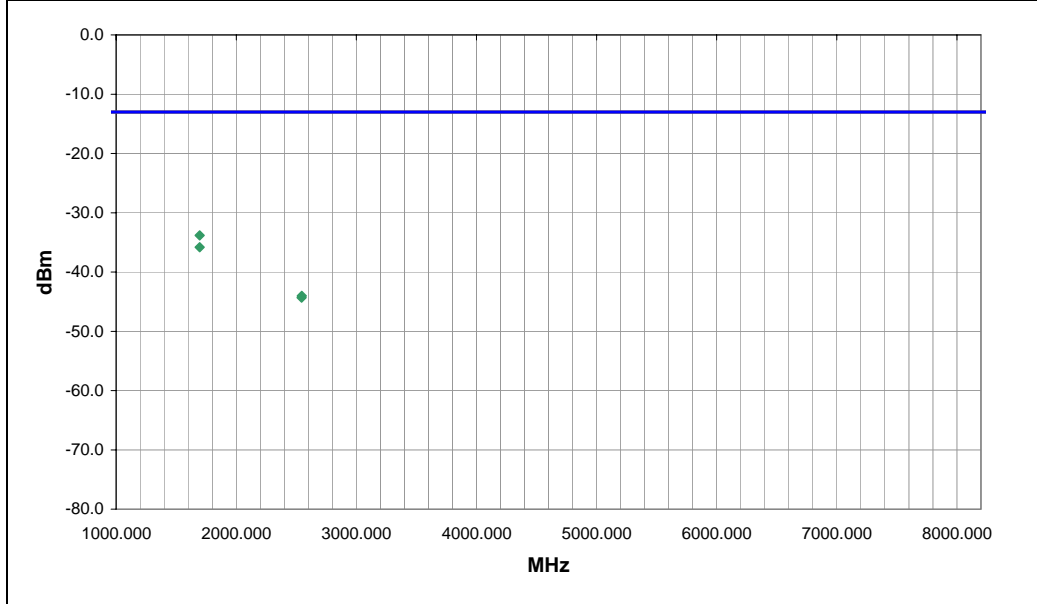
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH), Cell

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	10	 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
1695.903	85.0	1.1	H-Horn	PK	4.14E-07	-33.8	-13.0	-20.8	High channel, EUT horizontal
1695.745	315.0	1.2	V-Horn	PK	2.61E-07	-35.8	-13.0	-22.8	High channel, EUT on side
2544.613	283.0	1.0	V-Horn	PK	3.95E-08	-44.0	-13.0	-31.0	High channel, EUT on side
2543.722	42.0	1.2	H-Horn	PK	3.69E-08	-44.3	-13.0	-31.3	High channel, EUT horizontal

OUT OF BAND EMISSIONS - PART 22H

EMC

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/16/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 22H:2011	ANSI/TIA/EIA-603-C-2004

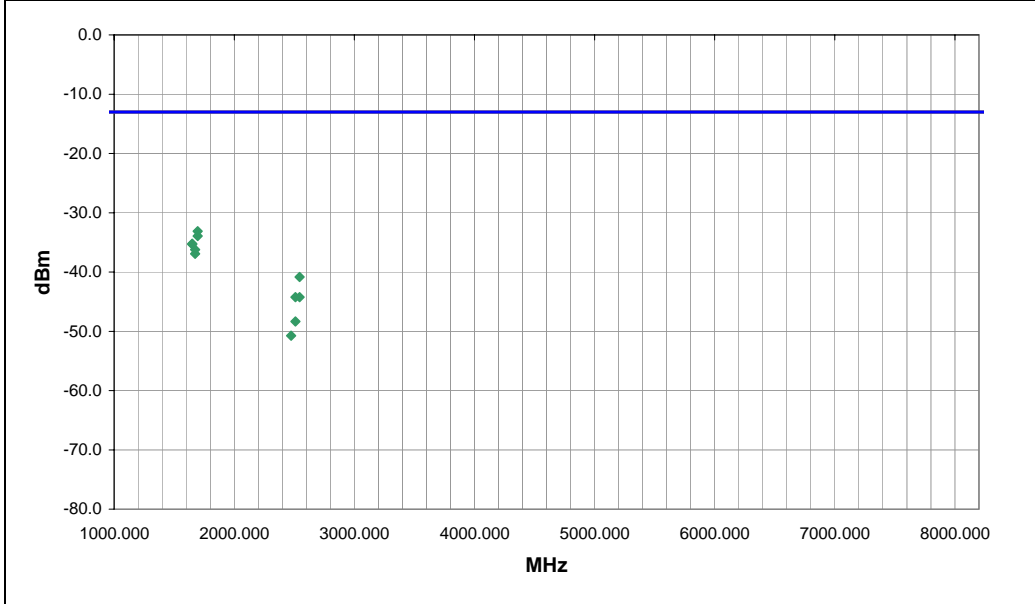
TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH), Cell

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	2	 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
1695.878	75.0	1.0	H-Horn	PK	4.87E-07	-33.1	-13.0	-20.1	High channel, EUT horizontal
1696.012	269.0	1.1	V-Horn	PK	4.05E-07	-33.9	-13.0	-20.9	High channel, EUT on side
1649.983	275.0	1.1	V-Horn	PK	3.00E-07	-35.2	-13.0	-22.2	Low channel, EUT on side
1649.650	181.0	1.0	H-Horn	PK	2.93E-07	-35.3	-13.0	-22.3	Low channel, EUT horizontal
1673.723	298.0	1.0	V-Horn	PK	2.38E-07	-36.2	-13.0	-23.2	Mid channel, EUT on side
1673.640	57.0	1.0	H-Horn	PK	2.03E-07	-36.9	-13.0	-23.9	Mid channel, EUT horizontal
2544.155	227.0	1.0	V-Horn	PK	8.26E-08	-40.8	-13.0	-27.8	High channel, EUT on side
2544.538	79.0	1.3	H-Horn	PK	3.78E-08	-44.2	-13.0	-31.2	High channel, EUT horizontal
2509.618	254.0	1.0	V-Horn	PK	3.78E-08	-44.2	-13.0	-31.2	Mid channel, EUT on side
2509.360	69.0	1.0	H-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	Mid channel, EUT horizontal
2473.642	230.0	1.0	V-Horn	PK	8.46E-09	-50.7	-13.0	-37.7	Low channel, EUT on side

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/17/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 22H:2011	Test Method ANSI/TIA/EIA-603-C-2004

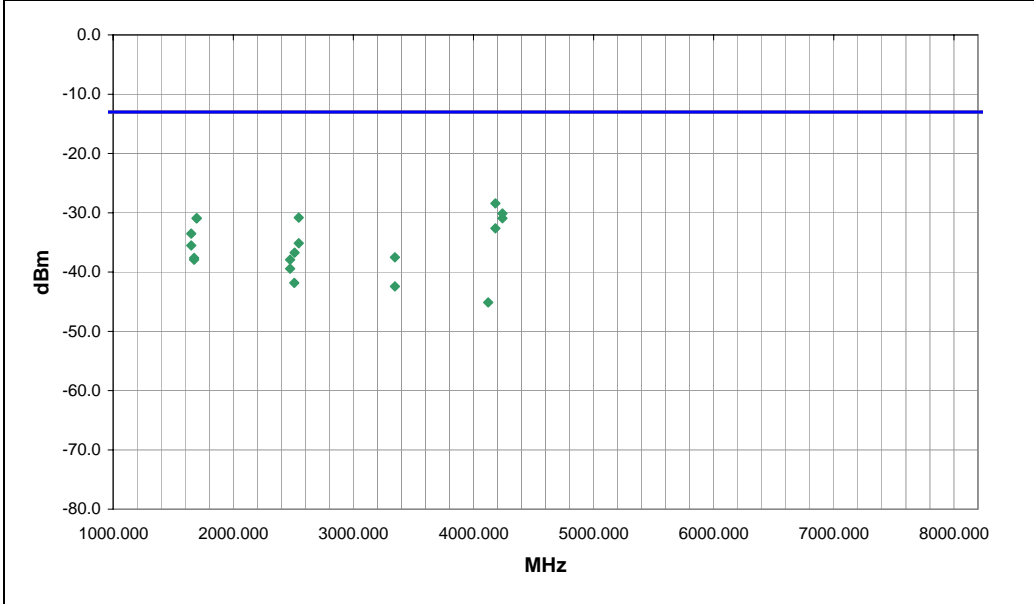
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO, Cell

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
4182.508	10.0	1.1	H-Horn	PK	1.44E-06	-28.4	-13.0	-15.4	Mid channel, EUT horizontal
4241.508	61.0	1.0	H-Horn	PK	9.71E-07	-30.1	-13.0	-17.1	High channel, EUT horizontal
2544.738	115.0	1.2	V-Horn	PK	8.26E-07	-30.8	-13.0	-17.8	High channel, EUT on side
4241.475	134.0	1.3	V-Horn	PK	8.07E-07	-30.9	-13.0	-17.9	High channel, EUT on side
1695.945	96.0	1.0	H-Horn	PK	8.07E-07	-30.9	-13.0	-17.9	High channel, EUT horizontal
1695.962	102.0	1.0	V-Horn	PK	8.07E-07	-30.9	-13.0	-17.9	High channel, EUT on side
4182.925	343.0	1.3	V-Horn	PK	5.46E-07	-32.6	-13.0	-19.6	Mid channel, EUT on side
1650.117	112.0	1.1	V-Horn	PK	4.44E-07	-33.5	-13.0	-20.5	Low channel, EUT on side
2544.830	187.0	1.3	H-Horn	PK	3.07E-07	-35.1	-13.0	-22.1	High channel, EUT horizontal
1650.025	185.0	1.0	H-Horn	PK	2.80E-07	-35.5	-13.0	-22.5	Low channel, EUT horizontal
2510.193	288.0	1.0	H-Horn	PK	2.12E-07	-36.7	-13.0	-23.7	Mid channel, EUT horizontal
3345.205	179.0	1.0	H-Horn	PK	1.77E-07	-37.5	-13.0	-24.5	Mid channel, EUT horizontal
1673.648	57.0	1.0	H-Horn	PK	1.73E-07	-37.6	-13.0	-24.6	Mid channel, EUT horizontal
1673.573	73.0	1.0	V-Horn	PK	1.61E-07	-37.9	-13.0	-24.9	Mid channel, EUT on side
2473.725	239.0	1.0	V-Horn	PK	1.61E-07	-37.9	-13.0	-24.9	Low channel, EUT on side
2473.033	287.0	1.0	H-Horn	PK	1.14E-07	-39.4	-13.0	-26.4	Low channel, EUT horizontal
2508.560	203.0	1.0	V-Horn	PK	6.56E-08	-41.8	-13.0	-28.8	Mid channel, EUT on side
3346.313	22.0	1.0	V-Horn	PK	5.72E-08	-42.4	-13.0	-29.4	Mid channel, EUT on side
4122.475	345.0	1.1	H-Horn	PK	3.07E-08	-45.1	-13.0	-32.1	Low channel, EUT horizontal

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/18/11
Customer: Intermecc Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS		Test Method
FCC 22H:2011		ANSI/TIA/EIA-603-C-2004

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
C1, USB snap on adapter

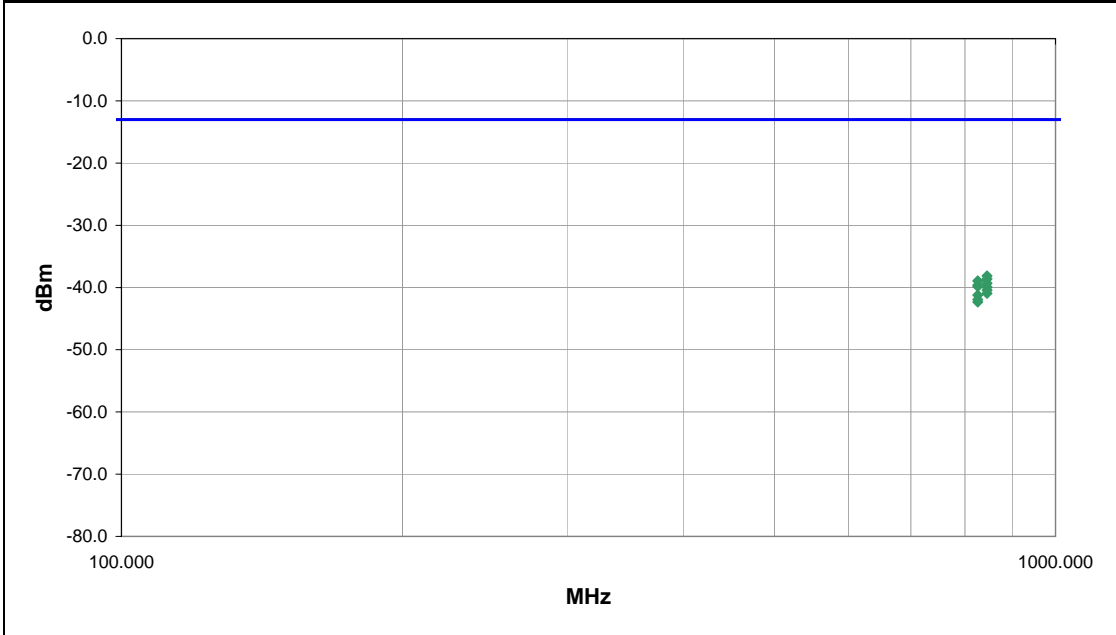
EUT OPERATING MODES

Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH), Cell, mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	13	 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
844.807	243.0	1.0	H-Bilog	QP	1.54E-07	-38.1	-13.0	-25.1	EUT horizontal
844.806	267.0	1.0	H-Bilog	QP	1.37E-07	-38.6	-13.0	-25.6	EUT on side
825.607	245.0	1.0	H-Bilog	QP	1.28E-07	-38.9	-13.0	-25.9	EUT horizontal
844.805	249.0	1.0	V-Bilog	QP	1.17E-07	-39.3	-13.0	-26.3	EUT vertical
825.606	189.0	1.0	H-Bilog	QP	1.09E-07	-39.6	-13.0	-26.6	EUT on side
825.606	114.0	1.0	H-Bilog	QP	1.04E-07	-39.8	-13.0	-26.8	EUT vertical
844.805	27.0	1.5	V-Bilog	QP	1.02E-07	-39.9	-13.0	-26.9	EUT on side
844.806	148.0	1.0	H-Bilog	QP	9.06E-08	-40.4	-13.0	-27.4	EUT vertical
844.807	38.0	1.5	V-Bilog	QP	8.07E-08	-40.9	-13.0	-27.9	EUT horizontal
825.607	28.0	1.5	V-Bilog	QP	7.54E-08	-41.2	-13.0	-28.2	EUT horizontal
825.605	324.0	1.5	V-Bilog	QP	6.41E-08	-41.9	-13.0	-28.9	EUT on side
825.606	200.0	1.9	V-Bilog	QP	5.85E-08	-42.3	-13.0	-29.3	EUT vertical

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

Transmitting, All bits up, 1xEV-DO Rev A
 Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH)

CHANNELS TESTED

Low = Ch. 25, 1851.25MHz
 Mid = Ch. 600, 1880MHz
 High = Ch. 1175, 1908.75MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	20 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
Universal Radio Communication Test	Rhode & Schwarz	CMU200	BSU	NCR	0
Spectrum Analyzer	Agilent	E4440	AFE	11/29/2010	12
Antenna, Biconilog	EMCO	3141	AXG	2/15/2010	13
EV12 Cables	N/A	Bilog Cables	EVS	7/14/2010	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	7/14/2010	13
Antenna, Horn	ETS	3115	AIB	9/8/2010	24
EV12 Cables	N/A	Double Ridge Horn Cables	EVT	11/22/2010	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	7/14/2010	13
Antenna, Horn	ETS	3160.07	AHZ	9/8/2010	24
EV12 Cables	N/A	Standard Gain Horn Cables	EVU	7/14/2010	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	7/14/2010	13
Antenna, Horn	EMCO	3115	AHE	10/22/2009	24
Power Meter	Gigatronics	8651A	SPM	1/7/2010	16
Power Sensor	Gigatronics	80701A	SPL	1/7/2010	16
Signal Generator	Agilent	E8257D	TGX	12/10/2008	27
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/15/2010	13
Cable	ESM Cable Corp.	KMKM-72	EVY	9/15/2010	13
Antenna, Horn	ETS	3160-08	AIA	NCR	0
EV12 Cables	N/A	Standard Gain Horn Cables	EVU	7/14/2010	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	7/14/2010	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

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 highest gain antenna to be used with the EUT was tested for final measurements. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

For licensed transmitters, the FCC references TIA/EIA-603 as the measurement procedure standard. TIA/EIA-603 Section 2.2.12 describes a method for measuring radiated spurious emissions that utilizes an antenna substitution method:

At an approved test site, the transmitter is placed on a remotely controlled turntable, and the measurement antenna is placed 3 meters from the transmitter. The turntable azimuth is varied to maximize the level of spurious emissions. The height of the measurement antenna is also varied from 1 to 4 meters. The amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a ½ wave dipole that is successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency. The output of the signal generator is recorded, and by factoring in the cable loss to the antenna and its gain; the power (dBm) into an ideal ½ wave dipole antenna is determined for each radiated spurious emission.

For the purposes of preliminary measurements, the field strength of the spurious emissions can be measured and compared with a 3 meter limit. The 3 meter limit was calculated to be 82.5 dBuV/m at 3 meters. The final measurements must be made utilizing the substitution method described above.

OUT OF BAND EMISSIONS - PART 24E

EMC

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/17/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 24E:2011	Test Method ANSI/TIA/EIA-603-C-2004

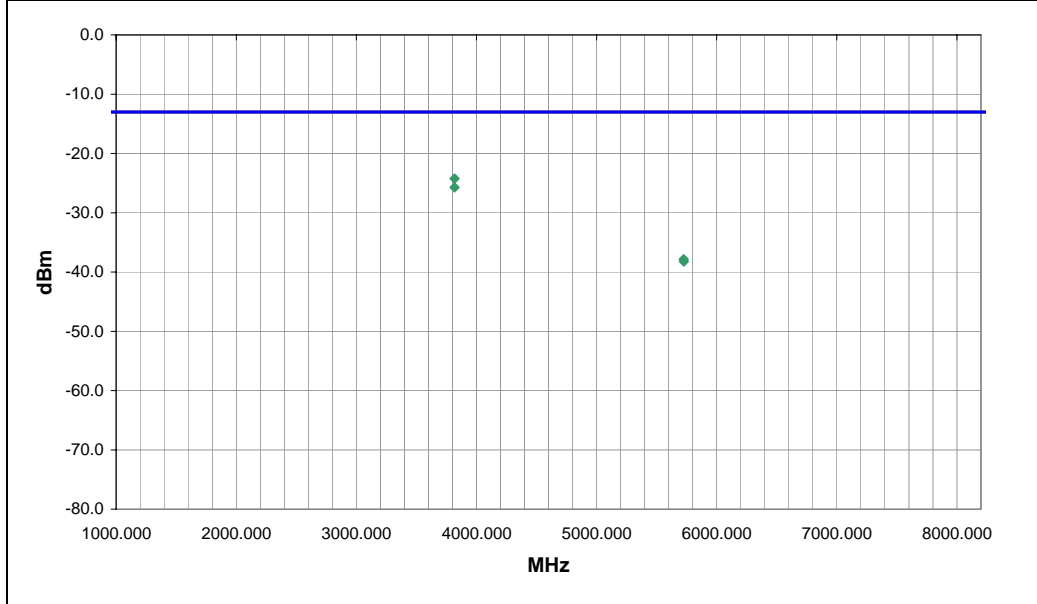
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, PCS

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
3818.040			329.0	1.0		H-Horn	PK	3.78E-06	-24.2	-13.0	-11.2	High channel, EUT horizontal
3817.979			308.0	1.0		V-Horn	PK	2.67E-06	-25.7	-13.0	-12.7	High channel, EUT on side
5725.275			356.0	1.0		V-Horn	PK	1.65E-07	-37.8	-13.0	-24.8	High channel, EUT on side
5726.075			340.0	1.0		H-Horn	PK	1.50E-07	-38.2	-13.0	-25.2	High channel, EUT horizontal

OUT OF BAND EMISSIONS - PART 24E

EMC

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/18/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 24E:2011	Test Method ANSI/TIA/EIA-603-C-2004

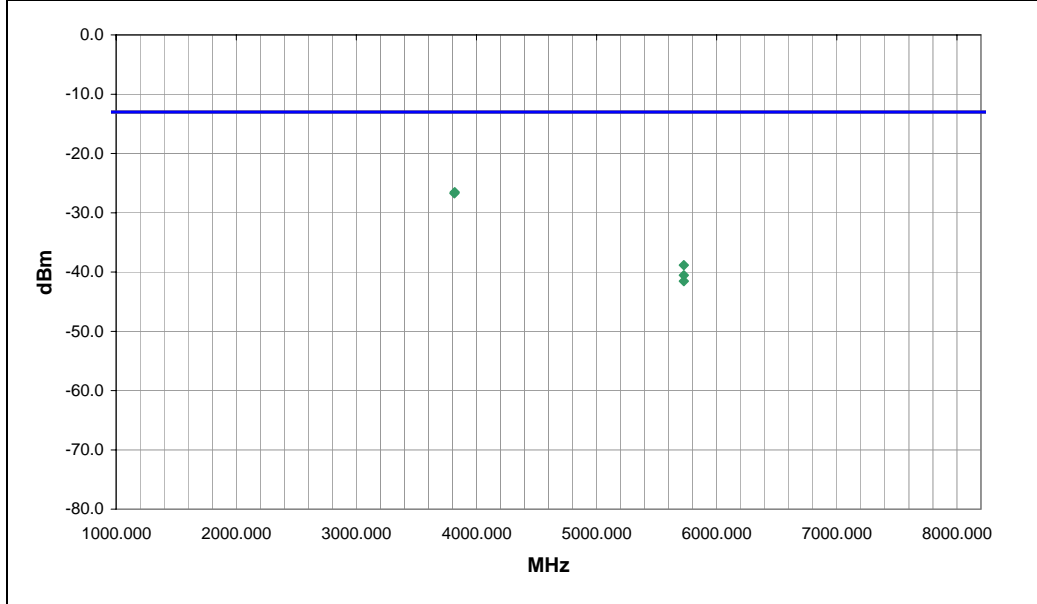
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH), PCS

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	12	 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
3818.416	322.0	1.2	V-Horn	PK	2.22E-06	-26.5	-13.0	-13.5	High channel, EUT on side
3816.588	294.0	1.0	H-Horn	PK	2.12E-06	-26.7	-13.0	-13.7	High channel, EUT horizontal
5726.330	350.0	1.0	V-Horn	PK	1.31E-07	-38.8	-13.0	-25.8	High channel, EUT on side
5726.830	9.0	1.0	H-Horn	PK	8.85E-08	-40.5	-13.0	-27.5	High channel, EUT horizontal
5726.510	176.0	1.0	V-Horn	PK	7.03E-08	-41.5	-13.0	-28.5	High channel, EUT horizontal

EMC OUT OF BAND EMISSIONS - PART 24E

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/17/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 24E:2011	Test Method ANSI/TIA/EIA-603-C-2004

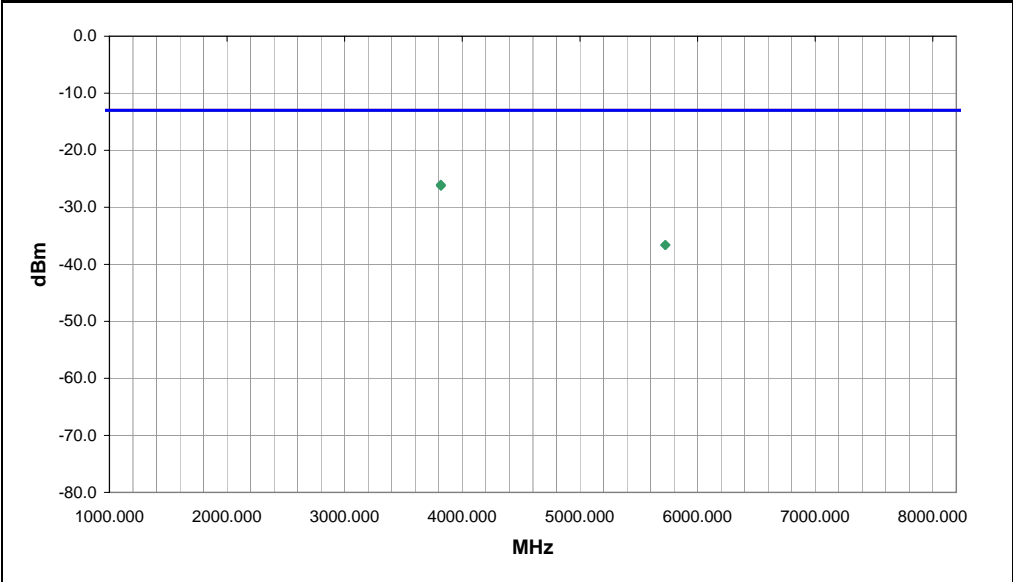
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, PCS

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	7	 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
3817.023		344.0	1.0		H-Horn	PK	2.50E-06	-26.0	-13.0	-13.0	High Channel, EUT horizontal
3818.371		348.0	1.0		V-Horn	PK	2.38E-06	-26.2	-13.0	-13.2	High Channel, EUT on side
5725.292		335.0	1.0		H-Horn	PK	2.17E-07	-36.6	-13.0	-23.6	High Channel, EUT horizontal
5727.325		335.0	1.0		V-Horn	PK	2.17E-07	-36.6	-13.0	-23.6	High Channel, EUT on side

EMC

OUT OF BAND EMISSIONS - PART 24E

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/18/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 24E:2011	Test Method ANSI/TIA/EIA-603-C-2004

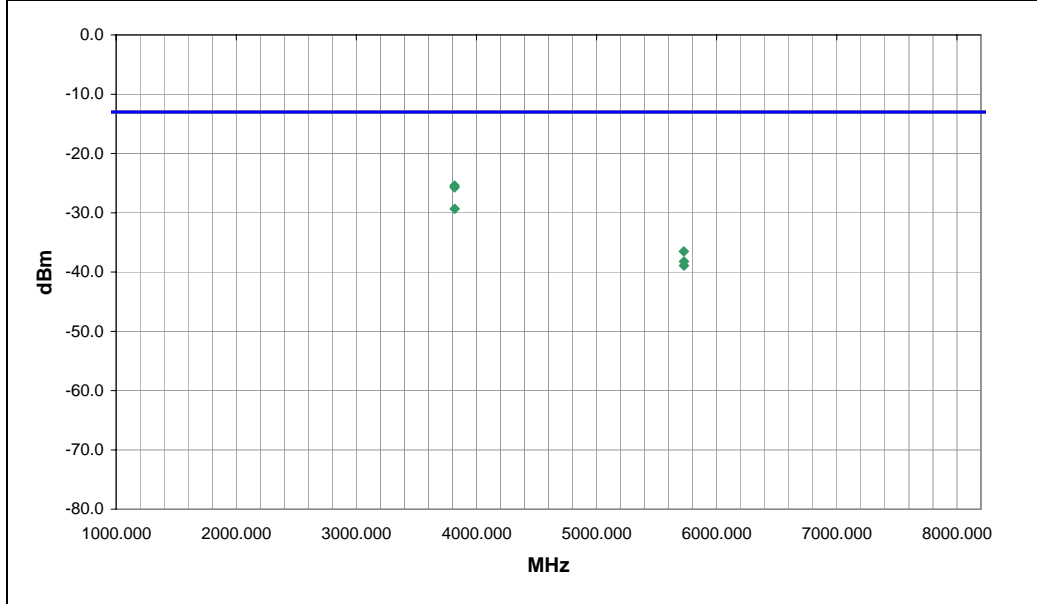
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH), PCS

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	11	 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
3817.783	340.0	1.2	H-Horn	PK	2.86E-06	-25.4	-13.0	-12.4	High channel, EUT horizontal
3817.583	309.0	1.0	V-Horn	PK	2.67E-06	-25.7	-13.0	-12.7	High channel, EUT on side
3818.092	314.0	1.0	V-Horn	PK	1.17E-06	-29.3	-13.0	-16.3	High channel, EUT horizontal
5726.117	326.0	1.0	V-Horn	PK	2.22E-07	-36.5	-13.0	-23.5	High channel, EUT horizontal
5727.292	211.0	1.0	V-Horn	PK	1.50E-07	-38.2	-13.0	-25.2	High channel, EUT on side
5727.175	212.0	1.0	H-Horn	PK	1.28E-07	-38.9	-13.0	-25.9	High channel, EUT horizontal

OUT OF BAND EMISSIONS - PART 24E

EMC

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/16/11
Customer: Intermecc Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 24E:2011	ANSI/TIA/EIA-603-C-2004

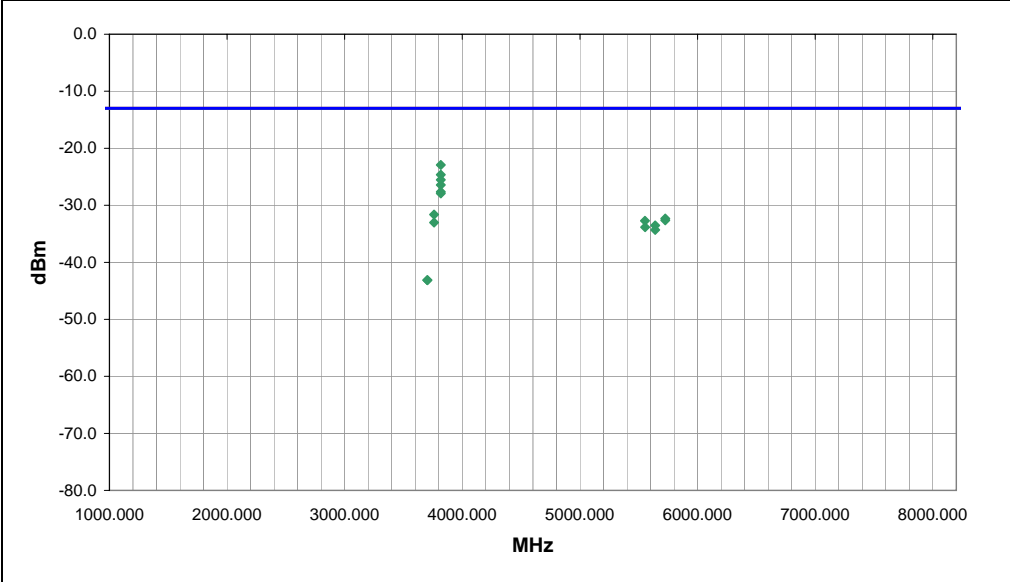
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT, SC3, SO32 (+SCH), PCS

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	1	 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
3816.682	360.0	1.0	H-Horn	PK	5.09E-06	-22.9	-13.0	-9.9	High Channel, EUT horizontal
3816.548	336.0	1.0	H-Horn	PK	3.44E-06	-24.6	-13.0	-11.6	High Channel, EUT vertical
3816.656	10.0	1.0	V-Horn	PK	2.80E-06	-25.5	-13.0	-12.5	High Channel, EUT on side
3817.569	307.0	1.1	V-Horn	PK	2.28E-06	-26.4	-13.0	-13.4	High Channel, EUT vertical
3816.676	321.0	1.0	V-Horn	PK	1.73E-06	-27.6	-13.0	-14.6	High Channel, EUT horizontal
3816.548	45.0	1.0	H-Horn	PK	1.61E-06	-27.9	-13.0	-14.9	High Channel, EUT on side
3760.175	28.0	1.2	V-Horn	PK	6.87E-07	-31.6	-13.0	-18.6	Mid Channel, EUT on side
5725.408	4.0	1.4	H-Horn	PK	5.85E-07	-32.3	-13.0	-19.3	High Channel, EUT horizontal
5725.192	351.0	1.0	V-Horn	PK	5.46E-07	-32.6	-13.0	-19.6	High Channel, EUT on side
5553.175	280.0	1.2	V-Horn	PK	5.33E-07	-32.7	-13.0	-19.7	Low Channel, EUT on side
3760.333	325.0	1.0	H-Horn	PK	4.98E-07	-33.0	-13.0	-20.0	Mid Channel, EUT horizontal
5639.825	10.0	1.5	H-Horn	PK	4.44E-07	-33.5	-13.0	-20.5	Mid Channel, EUT horizontal
5553.608	131.0	1.5	H-Horn	PK	4.14E-07	-33.8	-13.0	-20.8	Low Channel, EUT horizontal
5640.017	328.0	1.2	V-Horn	PK	3.69E-07	-34.3	-13.0	-21.3	Mid Channel, EUT on side
3702.646	210.0	1.4	V-Horn	PK	4.87E-08	-43.1	-13.0	-30.1	Low Channel, EUT on side
3703.498	352.0	1.0	H-Horn	PK	4.87E-08	-43.1	-13.0	-30.1	Low Channel, EUT horizontal

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/17/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

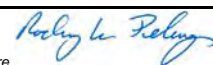
TEST SPECIFICATIONS	
FCC 24E:2011	Test Method ANSI/TIA/EIA-603-C-2004

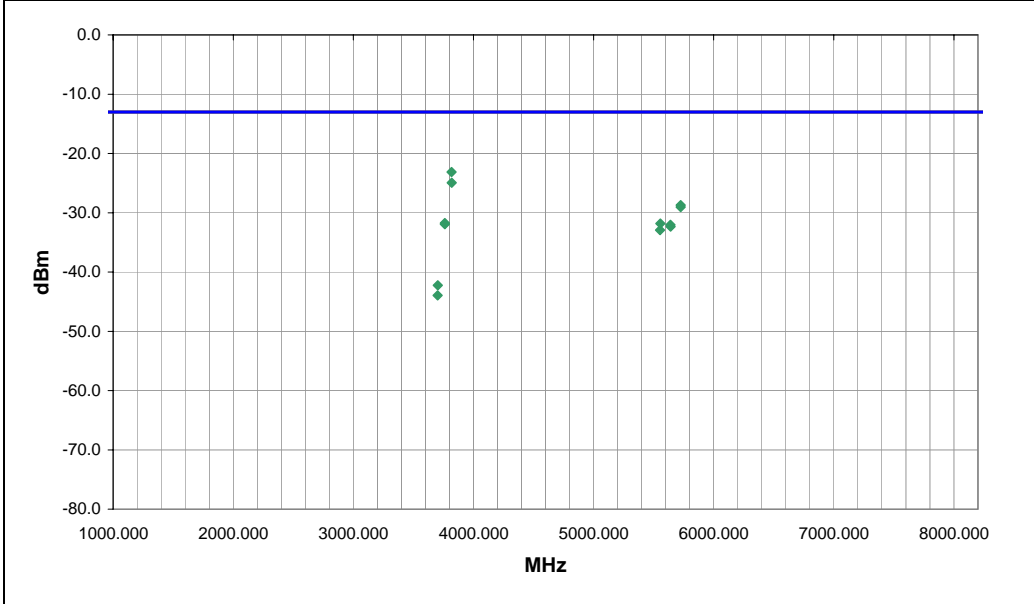
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, PCS

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	 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
3816.796	350.0	1.1	V-Horn	PK	4.87E-06	-23.1	-13.0	-10.1	High channel, EUT on side
3818.123	12.0	1.0	H-Horn	PK	3.21E-06	-24.9	-13.0	-11.9	High channel, EUT horizontal
5725.192	13.0	1.3	H-Horn	PK	1.34E-06	-28.7	-13.0	-15.7	High channel, EUT horizontal
5725.358	348.0	1.1	V-Horn	PK	1.25E-06	-29.0	-13.0	-16.0	High channel, EUT on side
3760.875	13.0	1.0	H-Horn	PK	6.72E-07	-31.7	-13.0	-18.7	Mid channel, EUT horizontal
5555.125	21.0	1.0	H-Horn	PK	6.56E-07	-31.8	-13.0	-18.8	Low channel, EUT horizontal
3760.867	360.0	1.0	V-Horn	PK	6.41E-07	-31.9	-13.0	-18.9	Mid channel, EUT on side
5639.233	19.0	1.0	H-Horn	PK	6.27E-07	-32.0	-13.0	-19.0	Mid channel, EUT horizontal
5641.158	350.0	1.3	V-Horn	PK	5.85E-07	-32.3	-13.0	-19.3	Mid channel, EUT on side
5552.650	5.0	1.3	V-Horn	PK	5.09E-07	-32.9	-13.0	-19.9	Low channel, EUT on side
3703.173	346.0	1.0	H-Horn	PK	5.99E-08	-42.2	-13.0	-29.2	Low channel, EUT horizontal
3701.804	120.0	1.4	V-Horn	PK	4.05E-08	-43.9	-13.0	-30.9	Low channel, EUT on side

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

Transmitting, All bits up, CDMA 1xRTT RC3 SO55, Cell band
 Transmitting, All bits up, EV-DO Rev A, Cell band

CHANNELS TESTED

Low = Ch.1013, 824.7MHz
 Mid = Ch. 384, 836.52MHz
 High = Ch. 777, 848.31MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	824 MHz	Stop Frequency	848 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
Spectrum Analyzer	Agilent	E4446A	AAQ	1/10/2011	12
EV01 Cables	N/A	Bilog Cables	EVA	7/9/2010	13
Antenna, Bilog	Teseq	CBL 6141B	AXR	11/29/2010	13
MXG Vector Singal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/7/2010	16
Power Sensor	Gigatronics	80701A	SPL	1/7/2010	16
Antenna, Dipole	ETS	3121C-DB4	ADH	3/6/2009	24

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

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 fundamental emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height (1-4 meters) and polarization. The amplitude and frequency of the highest emission were noted. The EUT was then replaced with a ½ wave dipole that was successively tuned to the highest emission. A signal generator was connected to the dipole, and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded. The signal generator, amplifier, and cable were then connected to an analyzer and the power output was recorded. By factoring in the dipole antenna gain (dBi), the effective radiated power for the maximum fundamental emission was determined. The ERP value was obtained from taking the value in EIRP – 2.15.

Effective Radiated Power (ERP)

EMC

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/22/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS		Test Method	
FCC 22H:2011		ANSI/TIA/EIA-603-C-2004	

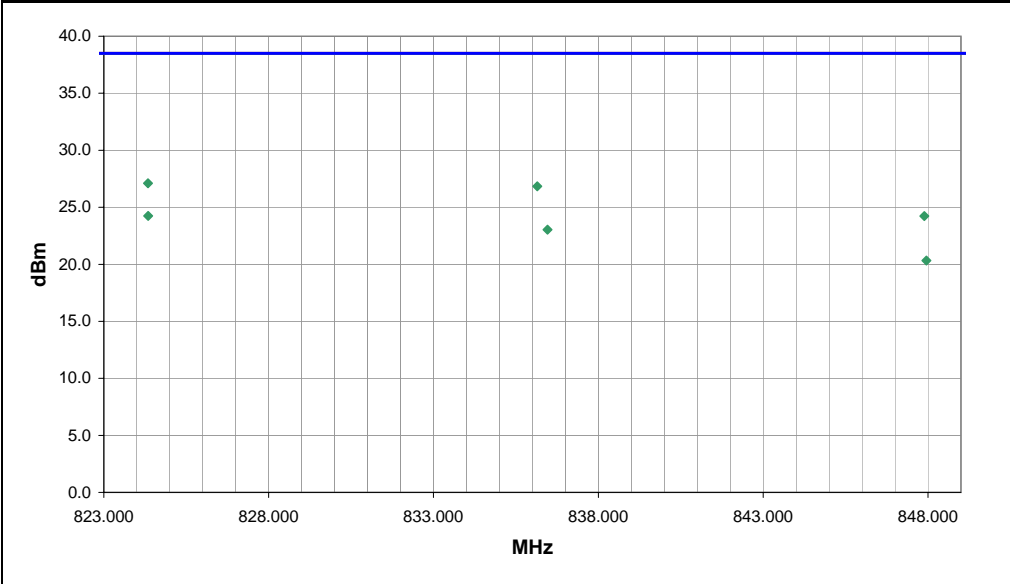
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, Cell band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	7	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
824.340	121.0	1.0	H-Bilog	PK	5.14E-01	27.1	38.5	-11.4	Low Channel, EUT horizontal
836.150	130.0	1.0	H-Bilog	PK	4.83E-01	26.8	38.5	-11.7	Mid Channel, EUT horizontal
824.345	98.0	1.5	V-Bilog	PK	2.65E-01	24.2	38.5	-14.3	Low Channel, EUT on side
847.890	125.0	1.1	H-Bilog	PK	2.65E-01	24.2	38.5	-14.3	High Channel, EUT horizontal
836.460	105.0	1.5	V-Bilog	PK	2.01E-01	23.0	38.5	-15.5	Mid Channel, EUT on side
847.950	98.0	1.4	V-Bilog	PK	1.08E-01	20.3	38.5	-18.2	High Channel, EUT on side

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/22/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 22H:2011	ANSI/TIA/EIA-603-C-2004

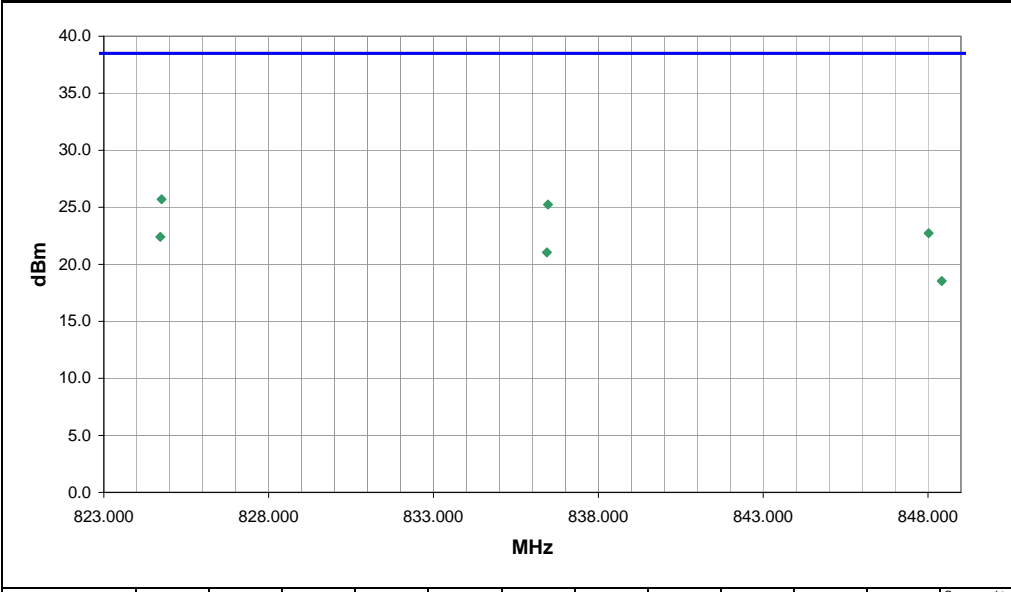
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT RC3 SO55, Cell band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	8	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
824.750	134.0	1.0	H-Bilog	PK	3.72E-01	25.7	38.5	-12.8	Low Channel, EUT horizontal
836.475	135.0	1.0	H-Bilog	PK	3.34E-01	25.2	38.5	-13.3	Mid Channel, EUT horizontal
848.020	135.0	1.0	H-Bilog	PK	1.87E-01	22.7	38.5	-15.8	High Channel, EUT horizontal
824.715	111.0	1.5	V-Bilog	PK	1.74E-01	22.4	38.5	-16.1	Low Channel, EUT on side
836.440	111.0	1.5	V-Bilog	PK	1.27E-01	21.0	38.5	-17.5	Mid Channel, EUT on side
848.420	108.0	1.5	V-Bilog	PK	7.13E-02	18.5	38.5	-20.0	High Channel, EUT on side

Effective Radiated Power (ERP)

EMC

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/22/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS		Test Method	
FCC 22H:2011		ANSI/TIA/EIA-603-C-2004	

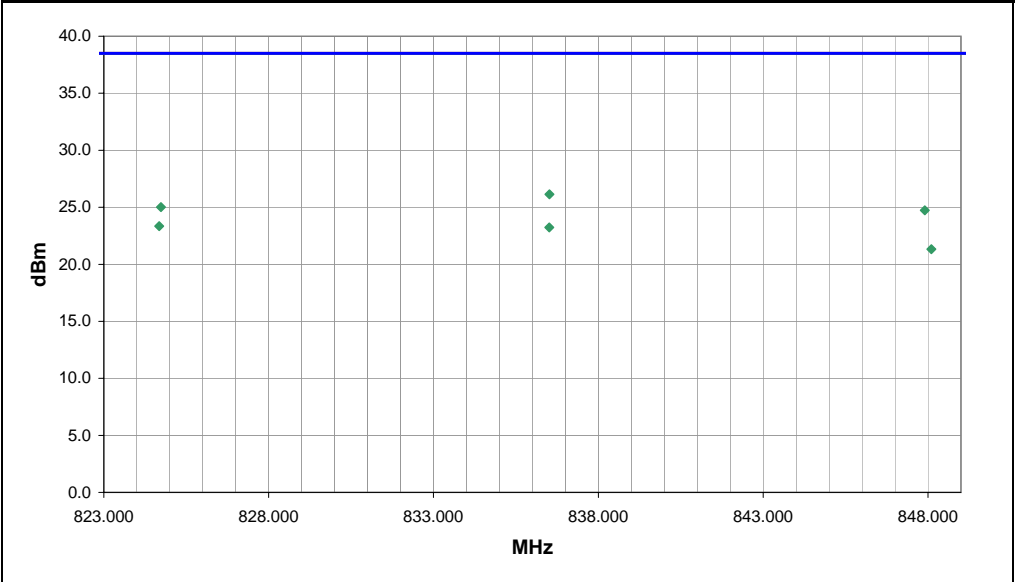
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT RC3 SO55, Cell band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	9	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
836.515	130.0	1.0	H-Bilog	PK	4.11E-01	26.1	38.5	-12.4	Mid Channel, EUT horizontal
824.735	130.0	1.1	H-Bilog	PK	3.17E-01	25.0	38.5	-13.5	Low Channel, EUT horizontal
847.905	127.0	1.0	H-Bilog	PK	2.97E-01	24.7	38.5	-13.8	High Channel, EUT horizontal
824.680	157.0	1.3	V-Bilog	PK	2.16E-01	23.3	38.5	-15.2	Low Channel, EUT on side
836.510	157.0	1.3	V-Bilog	PK	2.11E-01	23.2	38.5	-15.3	Mid Channel, EUT on side
848.100	157.0	1.3	V-Bilog	PK	1.36E-01	21.3	38.5	-17.2	High Channel, EUT on side

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/22/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 22H:2011	ANSI/TIA/EIA-603-C-2004

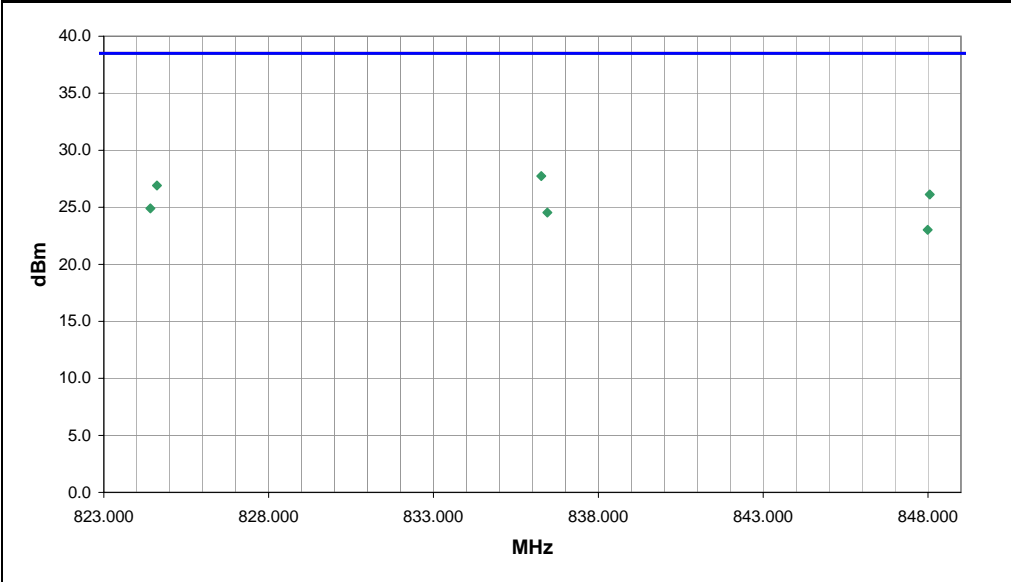
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, Cell band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	10	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
836.270	126.0	1.1	H-Bilog	PK	5.94E-01	27.7	38.5	-10.8	Mid Channel, EUT horizontal
824.610	126.0	1.1	H-Bilog	PK	4.91E-01	26.9	38.5	-11.6	Low Channel, EUT horizontal
848.055	126.0	1.1	H-Bilog	PK	4.10E-01	26.1	38.5	-12.4	High Channel, EUT horizontal
824.410	163.0	1.2	V-Bilog	PK	3.10E-01	24.9	38.5	-13.6	Low Channel, EUT on side
836.455	163.0	1.2	V-Bilog	PK	2.84E-01	24.5	38.5	-14.0	Mid Channel, EUT on side
847.990	163.0	1.2	V-Bilog	PK	2.01E-01	23.0	38.5	-15.5	High Channel, EUT on side

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/22/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 22H:2011	ANSI/TIA/EIA-603-C-2004

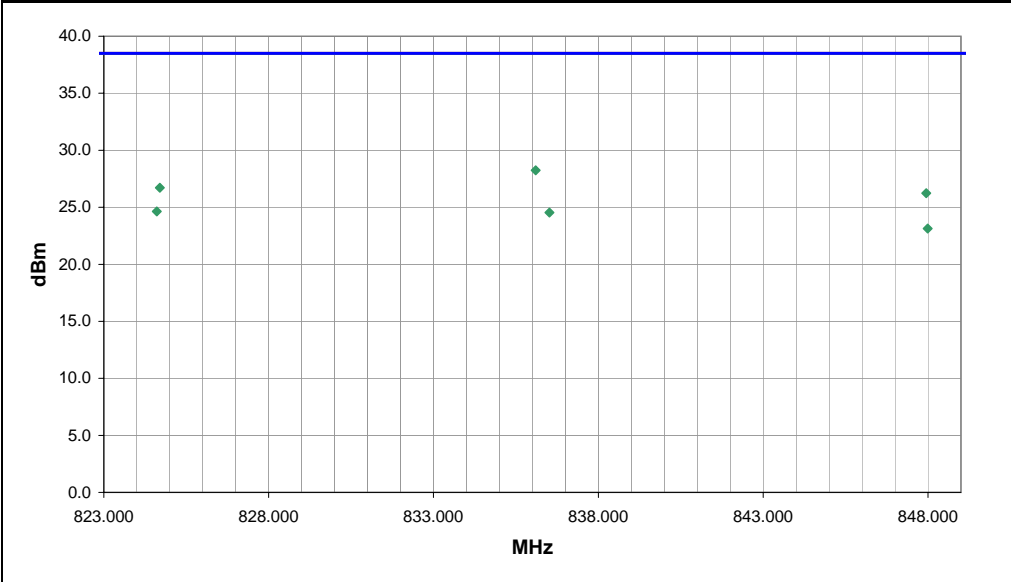
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, Cell band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	11	 Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
836.100	129.0	1.1	H-Bilog	PK	6.67E-01	28.2	38.5	-10.3	Mid Channel, EUT horizontal
824.700	129.0	1.1	H-Bilog	PK	4.69E-01	26.7	38.5	-11.8	Low Channel, EUT horizontal
847.945	129.0	1.1	H-Bilog	PK	4.20E-01	26.2	38.5	-12.3	High Channel, EUT horizontal
824.605	168.0	1.3	V-Bilog	PK	2.91E-01	24.6	38.5	-13.9	Low Channel, EUT on side
836.515	164.0	1.3	V-Bilog	PK	2.84E-01	24.5	38.5	-14.0	Mid Channel, EUT on side
847.990	164.0	1.3	V-Bilog	PK	2.06E-01	23.1	38.5	-15.4	High Channel, EUT on side

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/22/11
Customer: Intermecc Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 22H:2011	ANSI/TIA/EIA-603-C-2004

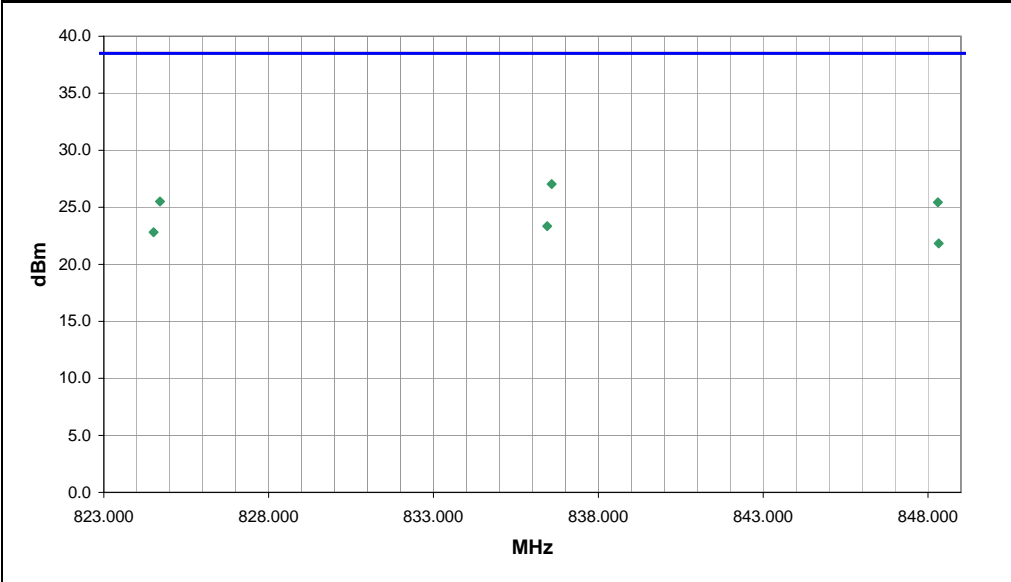
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA 1xRTT RC3 SO55, Cell band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	12	 Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
836.585	125.0	1.0	H-Bilog	PK	5.06E-01	27.0	38.5	-11.5	Mid Channel, EUT horizontal
824.702	130.0	1.0	H-Bilog	PK	3.56E-01	25.5	38.5	-13.0	Low Channel, EUT horizontal
848.300	130.0	1.0	H-Bilog	PK	3.49E-01	25.4	38.5	-13.1	High Channel, EUT horizontal
836.450	167.0	1.3	V-Bilog	PK	2.16E-01	23.3	38.5	-15.2	Mid Channel, EUT on side
824.510	167.0	1.3	V-Bilog	PK	1.91E-01	22.8	38.5	-15.7	Low Channel, EUT on side
848.325	167.0	1.3	V-Bilog	PK	1.52E-01	21.8	38.5	-16.7	High Channel, EUT on side

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

Transmitting, All bits up, CDMA2000 1xRTT RC3 SO55, PCS band
 Transmitting, All bits up, EV-DO Rev A, PCS band

CHANNELS TESTED

Low = Ch. 25, 1851.25MHz
 Mid = Ch. 600, 1880MHz
 High = Ch. 1175, 1908.75MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	1850 MHz	Stop Frequency	1910 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
Spectrum Analyzer	Agilent	E4446A	AAQ	1/10/2011	12
Antenna, Horn	EMCO	3115	AHC	7/8/2010	24
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	7/9/2010	13
Power Meter	Gigatronics	8651A	SPM	1/7/2010	16
Power Sensor	Gigatronics	80701A	SPL	1/7/2010	16
MXG Vector Singal Generator	Agilent	N5182A	TIF	NCR	0
Antenna, Horn	EMCO	3115	AHE	10/22/2009	24

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

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 fundamental emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height (1-4 meters) and polarization and manipulating the EUT antenna in 3 orthogonal planes. The antennas to be used with the EUT were tested. The EUT was transmitting while set at the lowest channel, a middle channel, and the highest channel available. The amplitude and frequency 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 gain (dBi) of the horn antenna the effective radiated power for each emission was determined.

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/21/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 24E:2011	Test Method ANSI/TIA/EIA-603-C-2004

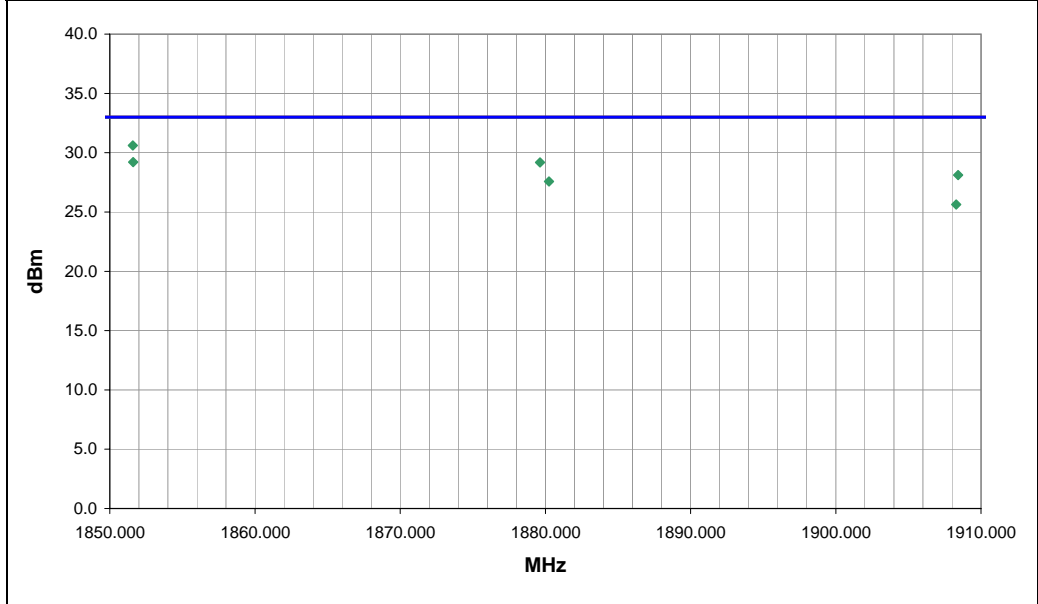
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, PCS band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	1	 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
1851.588	308.0	1.0	V-Horn	PK	1.15E+00	30.6	33.0	-2.4	Low Channel, EUT on side
1851.606	36.0	1.6	H-Horn	PK	8.34E-01	29.2	33.0	-3.8	Low Channel, EUT vertical
1879.627	62.0	2.2	H-Horn	PK	8.28E-01	29.2	33.0	-3.8	Mid Channel, EUT vertical
1908.423	36.0	1.5	H-Horn	PK	6.47E-01	28.1	33.0	-4.9	High Channel, EUT vertical
1880.245	256.0	1.0	V-Horn	PK	5.71E-01	27.6	33.0	-5.4	Mid Channel, EUT on side
1908.289	277.0	1.0	V-Horn	PK	3.66E-01	25.6	33.0	-7.4	High Channel, EUT on side

EUT: 1001CP01C	Work Order: INMC0664
Serial Number: 24511047145	Date: 02/21/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS		Test Method
FCC 24E:2011		ANSI/TIA/EIA-603-C-2004

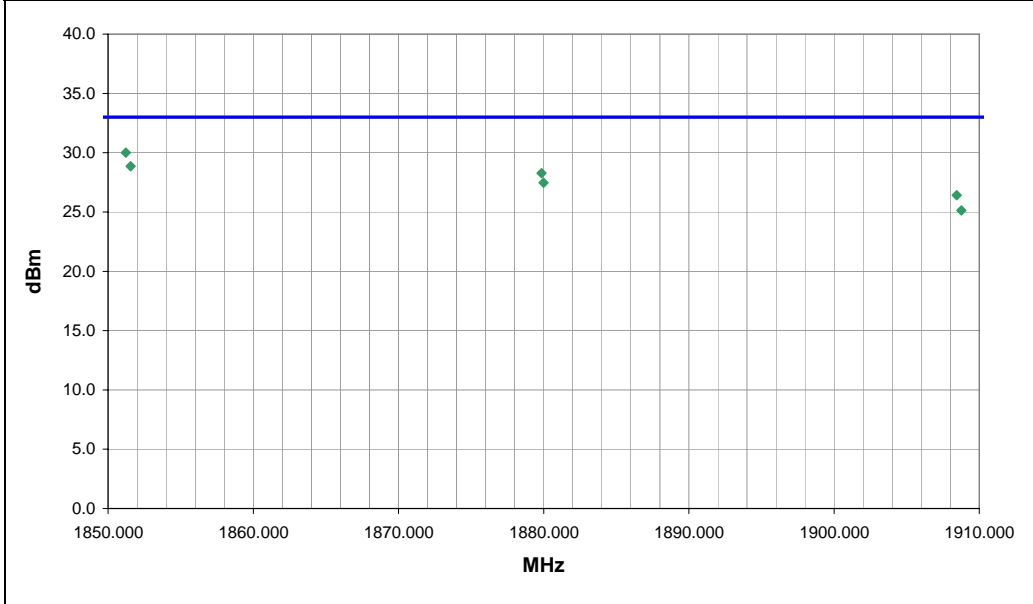
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
C1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA2000 1xRTT RC3 SO55, PCS band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	2	 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
1851.227	283.0	1.0	V-Horn	PK	1.00E+00	30.0	33.0	-3.0	Low Channel, EUT on side
1851.553	26.0	1.3	H-Horn	PK	7.69E-01	28.9	33.0	-4.1	Low Channel, EUT vertical
1879.848	28.0	1.3	H-Horn	PK	6.73E-01	28.3	33.0	-4.7	Mid Channel, EUT vertical
1879.994	262.0	1.3	V-Horn	PK	5.58E-01	27.5	33.0	-5.5	Mid Channel, EUT on side
1908.447	45.0	1.5	H-Horn	PK	4.38E-01	26.4	33.0	-6.6	High Channel, EUT vertical
1908.762	312.0	1.3	V-Horn	PK	3.26E-01	25.1	33.0	-7.9	High Channel, EUT on side

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/21/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 24E:2011	Test Method: ANSI/TIA/EIA-603-C-2004

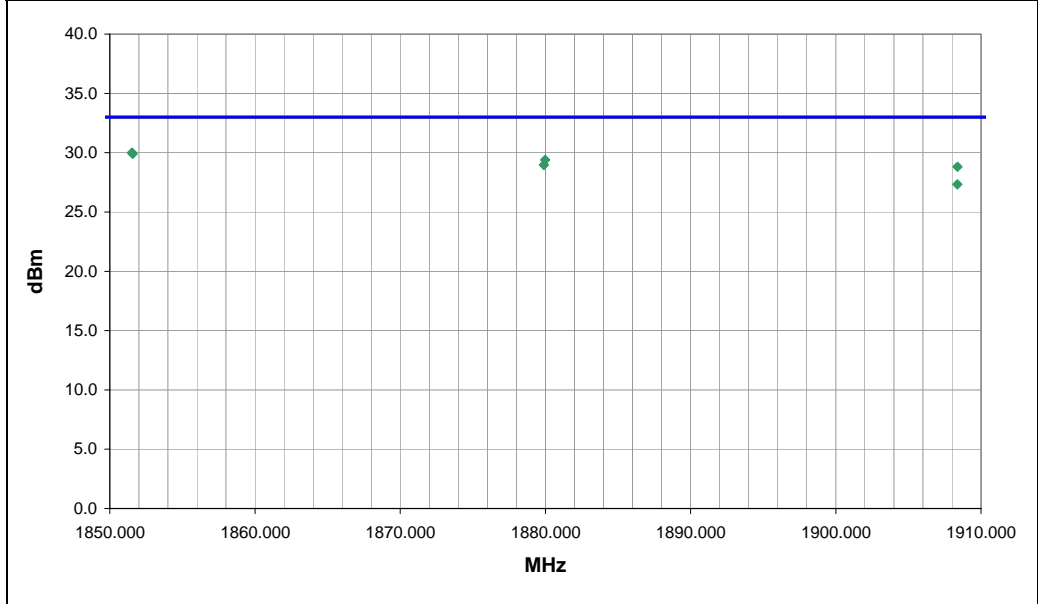
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, PCS band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	 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
1851.530	275.0	1.0	V-Horn	PK	1.00E+00	30.0	33.0	-3.0	Low Channel, EUT on side
1851.571	31.0	1.9	H-Horn	PK	9.79E-01	29.9	33.0	-3.1	Low Channel, EUT vertical
1879.988	25.0	1.2	H-Horn	PK	8.71E-01	29.4	33.0	-3.6	Mid Channel, EUT vertical
1879.895	308.0	1.3	V-Horn	PK	7.89E-01	29.0	33.0	-4.0	Mid Channel, EUT on side
1908.382	42.0	1.5	H-Horn	PK	7.60E-01	28.8	33.0	-4.2	High Channel, EUT vertical
1908.365	309.0	1.3	V-Horn	PK	5.41E-01	27.3	33.0	-5.7	High Channel, EUT on side

EUT: 1000CP02C	Work Order: INMC0664
Serial Number: 24511047014	Date: 02/21/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS		Test Method
FCC 24E:2011		ANSI/TIA/EIA-603-C-2004

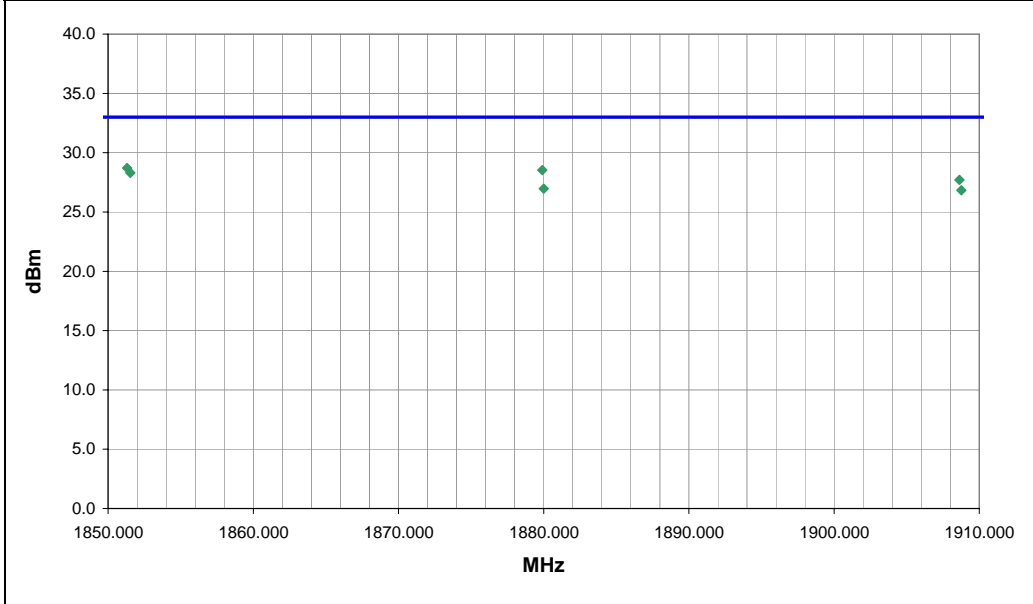
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
B1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA2000 1xRTT RC3 SO55, PCS band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	4	 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
1851.314			272.0	1.0			V-Horn	PK	7.43E-01	28.7	33.0	-4.3	Low Channel, EUT on side
1879.901			47.0	1.5			H-Horn	PK	7.13E-01	28.5	33.0	-4.5	Mid Channel, EUT vertical
1851.536			41.0	1.6			H-Horn	PK	6.78E-01	28.3	33.0	-4.7	Low Channel, EUT vertical
1908.633			41.0	1.5			H-Horn	PK	5.90E-01	27.7	33.0	-5.3	High Channel, EUT vertical
1880.000			314.0	1.2			V-Horn	PK	4.98E-01	27.0	33.0	-6.0	Mid Channel, EUT on side
1908.762			312.0	1.3			V-Horn	PK	4.82E-01	26.8	33.0	-6.2	High Channel, EUT on side

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/21/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 24E:2011	Test Method ANSI/TIA/EIA-603-C-2004

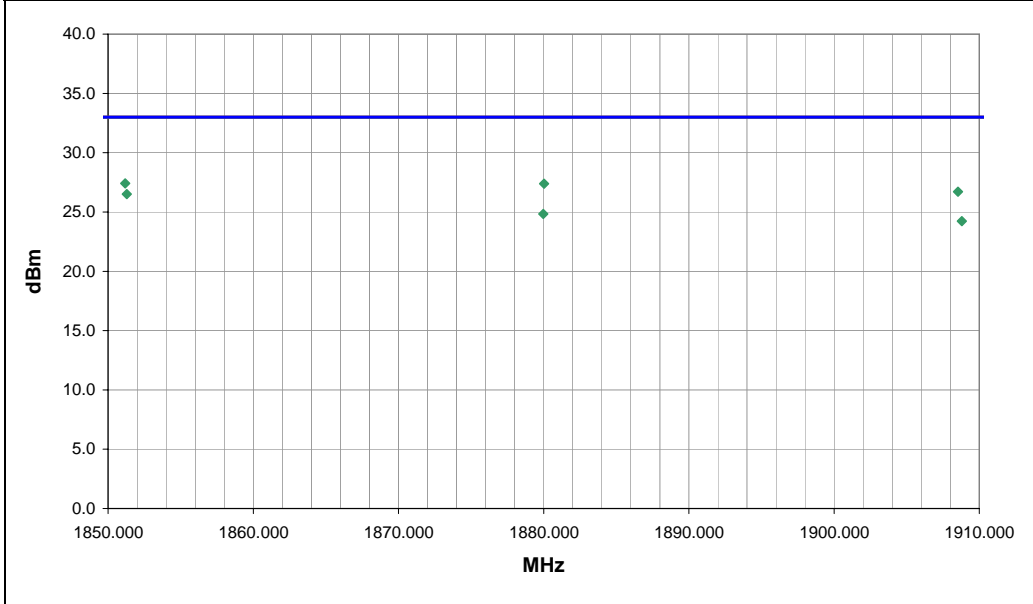
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, CDMA2000 1xRTT RC3 SO55, PCS band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	5	 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
1851.174	283.0	1.0	V-Horn	PK	5.51E-01	27.4	33.0	-5.6	Low Channel, EUT on side
1880.023	66.0	1.2	H-Horn	PK	5.47E-01	27.4	33.0	-5.6	Mid Channel, EUT vertical
1908.534	66.0	1.5	H-Horn	PK	4.69E-01	26.7	33.0	-6.3	High Channel, EUT vertical
1851.285	64.0	1.3	H-Horn	PK	4.48E-01	26.5	33.0	-6.5	Low Channel, EUT vertical
1879.971	280.0	1.0	V-Horn	PK	3.04E-01	24.8	33.0	-8.2	Mid Channel, EUT on side
1908.797	291.0	1.3	V-Horn	PK	2.65E-01	24.2	33.0	-8.8	High Channel, EUT on side

EUT: 1000CP01C	Work Order: INMC0664
Serial Number: 24411047085	Date: 02/21/11
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: none	Humidity: 32%
Project: None	Barometric Pres.: 29.55
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV12

TEST SPECIFICATIONS		Test Method
FCC 24E:2011		ANSI/TIA/EIA-603-C-2004

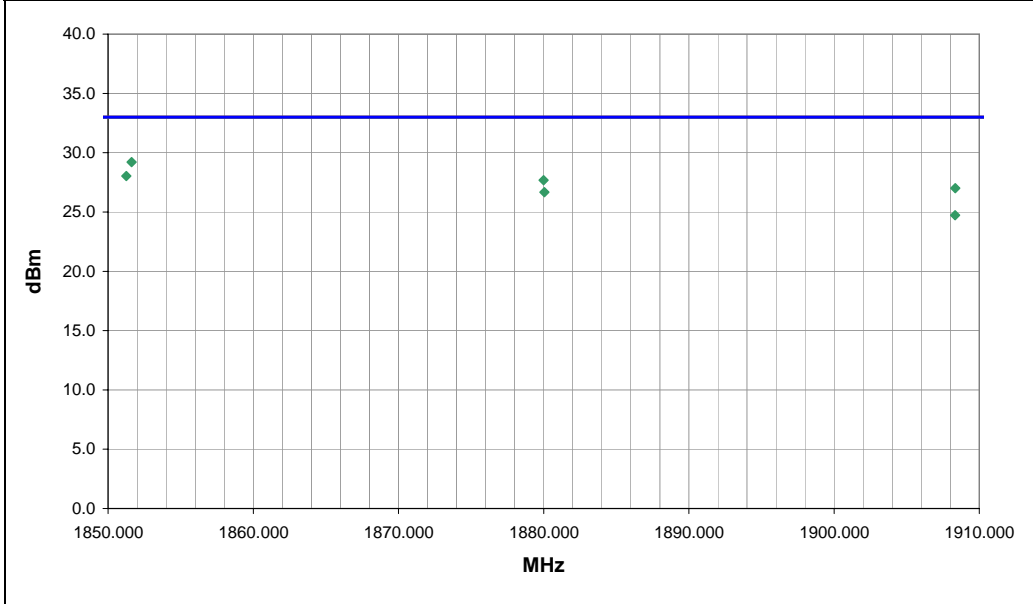
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
A1, USB snap on adapter

EUT OPERATING MODES
Transmitting, All bits up, EV-DO Rev A, PCS band

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
1851.618			284.0	1.0			V-Horn	PK	8.34E-01	29.2	33.0	-3.8	Low Channel, EUT on side
1851.256			73.0	1.0			H-Horn	PK	6.35E-01	28.0	33.0	-5.0	Low Channel, EUT vertical
1879.994			69.0	1.5			H-Horn	PK	5.86E-01	27.7	33.0	-5.3	Mid Channel, EUT vertical
1908.348			56.0	1.6			H-Horn	PK	5.02E-01	27.0	33.0	-6.0	High Channel, EUT vertical
1880.047			284.0	1.0			V-Horn	PK	4.65E-01	26.7	33.0	-6.3	Mid Channel, EUT on side
1908.336			283.0	1.0			V-Horn	PK	2.97E-01	24.7	33.0	-8.3	High Channel, EUT on side