Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
Low (Channel 1)
Mid (Channel 7)
High (Channel 11)

Operating Modes Investigated:
802.11(b)
802.11(g)

Antennas Investigated:
Corner Reflector 071122
Yagi 063365
Omni 065349
Omni 066147
Diversity 071121
Corner Reflector 071122
Flat Panel 067263

Data Rates Investigated:
6 Mbit
11 Mbit
36 Mbit
54 Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
120VAC, 60Hz

Frequency Range Investigated			
Start Frequency	30 MHz	Stop Frequency	26 GHz

Software\Firmware Applied During Test			
Exercise software	CTxRx	Version	1.4.1
Description			
The software transmitted 802.11(g) and 802.11(b) modulation in low, mid, and high channels.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Mini-PCI to CardBus Extender	TDK	Rev. 2	ICMB-68FYGC-0M03
802.11(b) and 802.11(g) radio	Intermec Technologies Corporation	802MIG2	N/A
Receive antenna	N/A	Omni 066147	N/A
Laptop	Dell	PPL	0009321C-12800-8B6-0901
Power Adapter 1	Dell	PA-2	85391
Transmit antenna	Mobile Mark	Corner Reflector 071122	SCR14-5250I
Transmit antenna	CushCraft	Yagi 063365	PC2415
Transmit antenna	N/A	Omni 065349	N/A
Transmit antenna	N/A	Omni 066147	N/A
Transmit antenna	N/A	Diversity 071121	N/A
Transmit antenna	Xertex Technologies	Flat Panel 067263	100805
Power Adapter 2	Radio Shack	273-1695	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Coax	Yes	0.15	No	802.11(b) and 802.11(g) radio	Receive antenna
Coax adapter cable	Yes	1.4	No	802.11(b) and 802.11(g) radio	Transmit antenna
DC Leads	PA	1.6	Yes	Laptop	Power Adapter 1
AC Power	No	1.6	No	Power Adapter 1	AC Mains
DC Leads	PA	1.8	No	802.11(b) and 802.11(g) radio	Power Adapter 2

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

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Hewlett-Packard	8566B	AAL	01/07/2003	12 mo
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	01/07/2003	12 mo
Antenna, Horn	EMCO	3115	AHC	08/12/2002	12 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APJ	01/06/2003	12 mo
Antenna, Biconilog	EMCO	3141	AXE	12/31/2001	36 mo
Pre-Amplifier	Amplifier Research	LN1000A	APS	01/06/2003	12 mo
Antenna, Horn	EMCO	3160-08	AHK	06/20/2003	12 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	07/09/2002	12 mo
Antenna, Horn	EMCO	3160-09	AHG	01/15/2000	39 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	01/17/2000	39 mo
High Pass Filter	RLC Electronics	F-100-4000-5-R (HPF>4GHz up to	HFF	05/01/2003	12 mo

Test Description

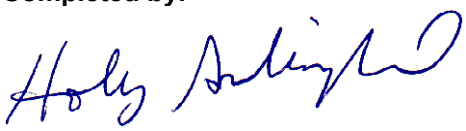
Requirement: The field strength of any spurious emissions or modulation products that fall in a restricted band, as defined in 47 CFR 15.205, is measured. The peak level must comply with the limits specified in 47 CFR 15.35(b). The average level (taken with a 10Hz VBW) must comply with the limits specified in 15.209.

Configuration: The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.4:1992). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Bandwidths Used for Measurements

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.			

Completed by:



NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/09/03
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:		Humidity:	35%
Cust. Ref. No.:		Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

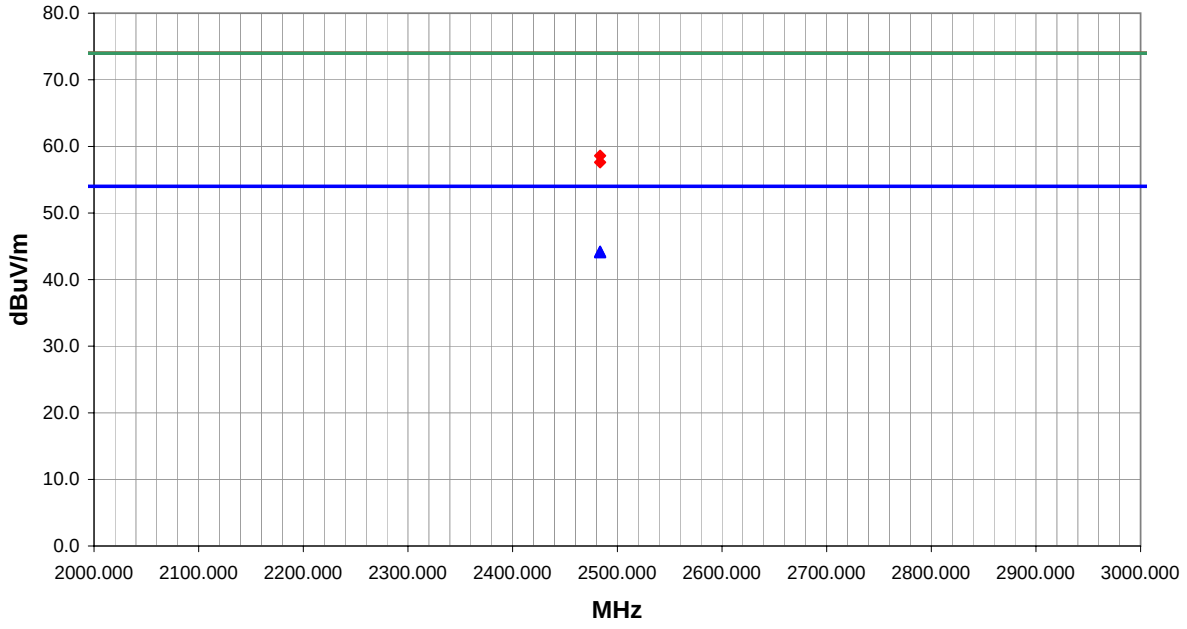
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	6

Other

Tested By: Holly Ashkannejhad



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)
2483.500	27.2	1.0	70.0	2.7	3.0	16.0	V-Horn	AV	0.0	44.2	54.0	-9.8
2483.500	27.1	1.0	172.0	1.3	3.0	16.0	H-Horn	AV	0.0	44.1	54.0	-9.9
2483.500	41.6	1.0	70.0	2.7	3.0	16.0	V-Horn	PK	0.0	58.6	74.0	-15.4
2483.500	40.6	1.0	172.0	1.3	3.0	16.0	H-Horn	PK	0.0	57.6	74.0	-16.4

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/11/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

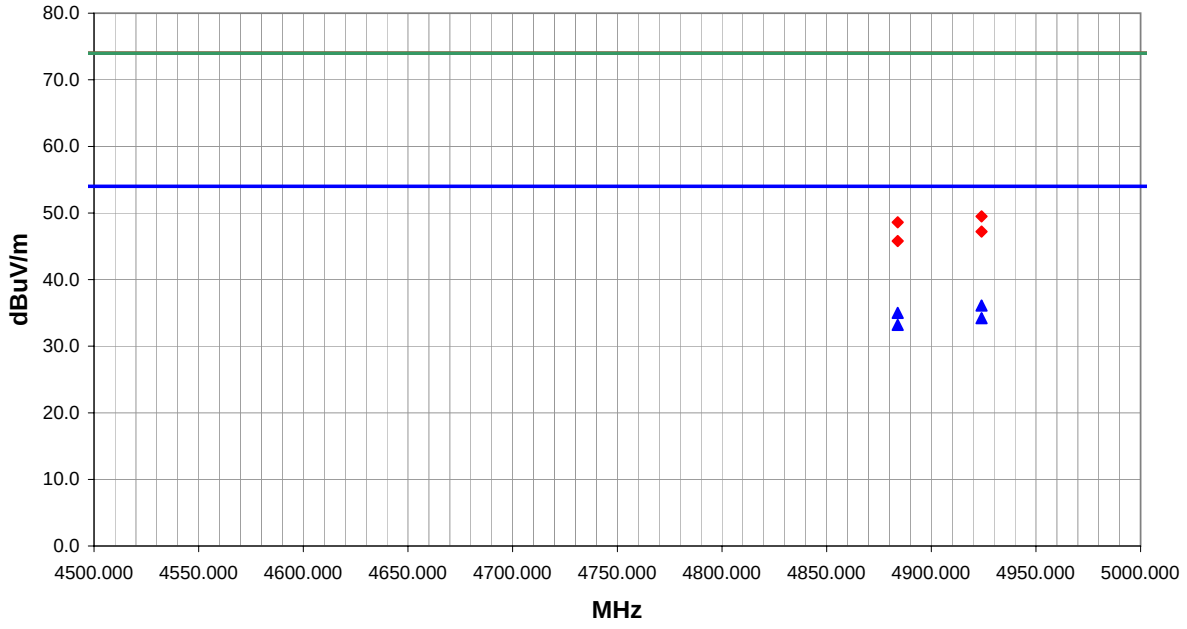
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	26

Other

Tested By:



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)
4923.995	29.9	6.2	276.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.1	54.0	-17.9
4883.949	28.8	6.2	278.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0
4923.995	28.0	6.2	249.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.2	54.0	-19.8
4883.949	27.0	6.2	256.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.2	54.0	-20.8
4923.995	43.3	6.2	276.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.5	74.0	-24.5
4883.949	42.4	6.2	278.0	1.0	3.0	0.0	H-Horn	PK	0.0	48.6	74.0	-25.4
4923.995	41.0	6.2	249.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8
4883.949	39.6	6.2	256.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.8	74.0	-28.2

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/12/03
Customer:	Intermec Technologies Corporation			Temperature:	77
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	30.03
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

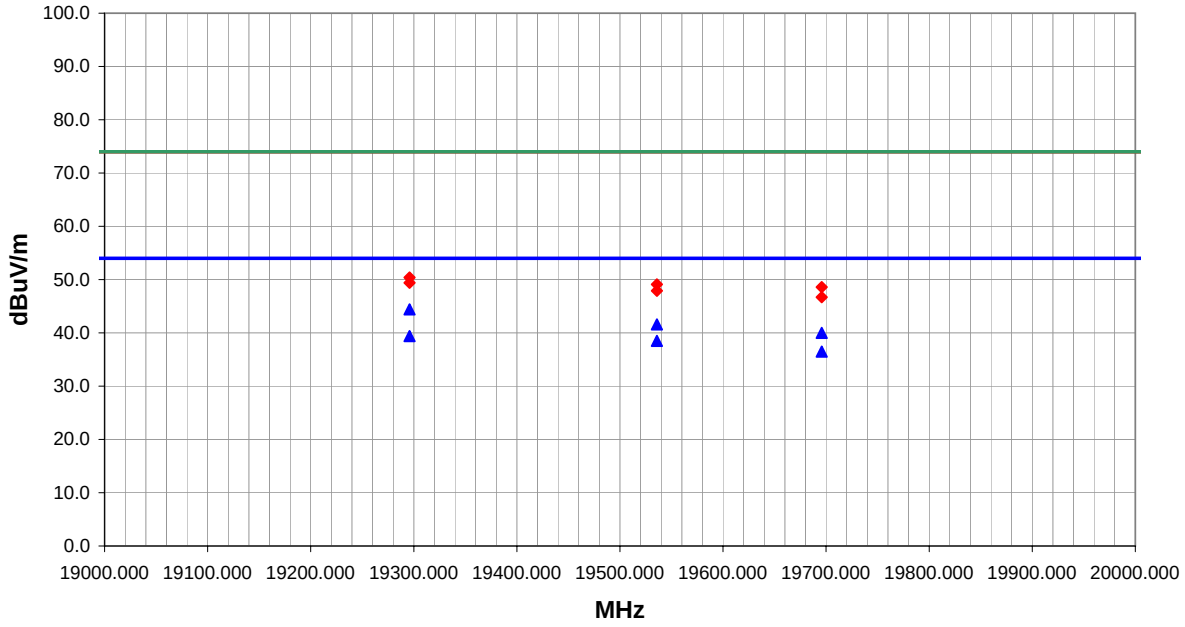
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	48

Other

Tested By:



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)
19295.820	36.2	8.2	220.0	1.0	3.0	0.0	V-High Horr	AV	0.0	44.4	54.0	-9.6
19535.820	33.1	8.5	24.0	1.0	3.0	0.0	V-High Horr	AV	0.0	41.6	54.0	-12.4
19695.820	31.3	8.7	348.0	1.0	3.0	0.0	V-High Horr	AV	0.0	40.0	54.0	-14.0
19295.820	31.2	8.2	293.0	1.0	3.0	0.0	H-High Horr	AV	0.0	39.4	54.0	-14.6
19535.820	30.0	8.5	234.0	1.0	3.0	0.0	H-High Horr	AV	0.0	38.5	54.0	-15.5
19695.820	27.8	8.7	72.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.5	54.0	-17.5
19295.820	42.2	8.2	220.0	1.0	3.0	0.0	V-High Horr	PK	0.0	50.4	74.0	-23.6
19295.820	41.2	8.2	293.0	1.0	3.0	0.0	H-High Horr	PK	0.0	49.4	74.0	-24.6
19535.820	40.6	8.5	24.0	1.0	3.0	0.0	V-High Horr	PK	0.0	49.1	74.0	-24.9
19695.820	39.9	8.7	348.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.6	74.0	-25.4
19535.820	39.4	8.5	234.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.9	74.0	-26.1
19695.820	38.0	8.7	72.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.7	74.0	-27.3

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/09/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

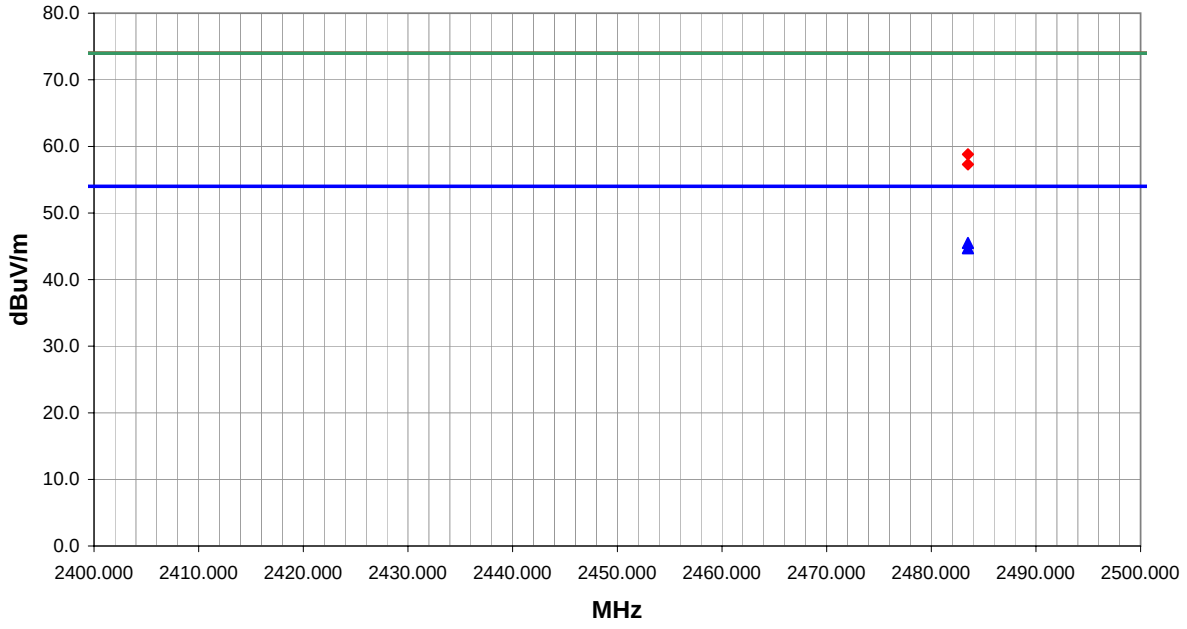
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	7

Other

Tested By:



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)
2483.500	28.5	1.0	299.0	1.3	3.0	16.0	H-Horn	AV	0.0	45.5	54.0	-8.5
2483.500	27.7	1.0	92.0	1.2	3.0	16.0	V-Horn	AV	0.0	44.7	54.0	-9.3
2483.500	41.8	1.0	299.0	1.3	3.0	16.0	H-Horn	PK	0.0	58.8	74.0	-15.2
2483.500	40.3	1.0	92.0	1.2	3.0	16.0	V-Horn	PK	0.0	57.3	74.0	-16.7

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/11/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

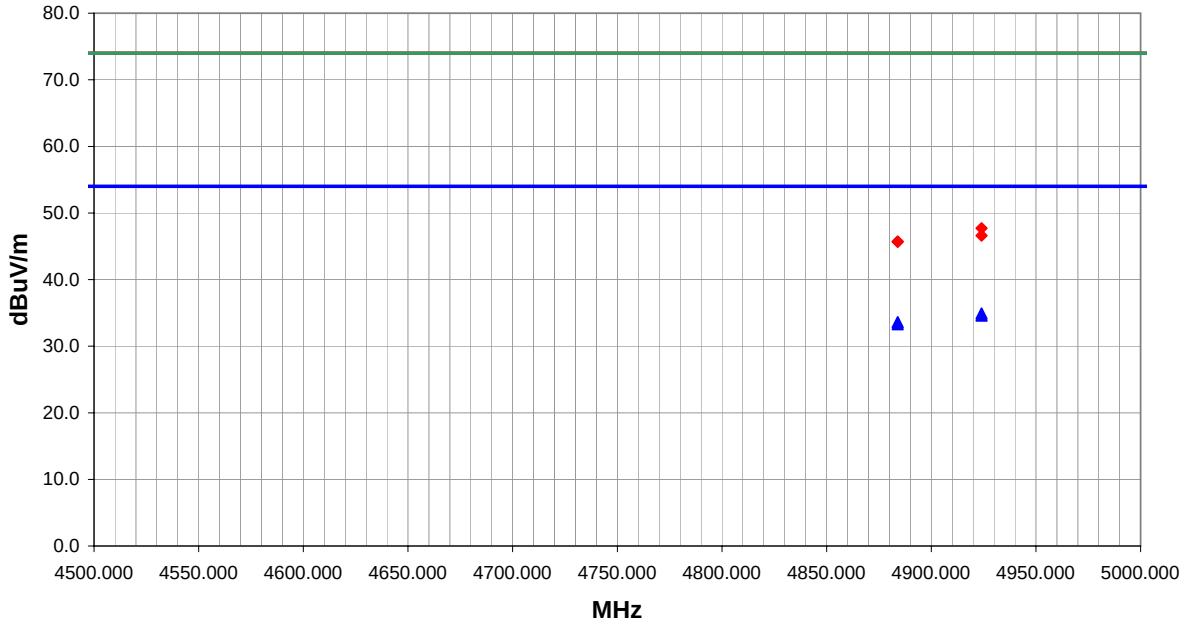
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	28

Other

Tested By:



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)
4923.995	28.7	6.2	274.0	1.8	3.0	0.0	H-Horn	AV	0.0	34.9	54.0	-19.1
4923.995	28.4	6.2	279.0	1.4	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4
4883.949	27.4	6.2	191.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.6	54.0	-20.4
4883.949	27.1	6.2	251.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.3	54.0	-20.7
4923.995	41.5	6.2	274.0	1.8	3.0	0.0	H-Horn	PK	0.0	47.7	74.0	-26.3
4923.995	40.4	6.2	279.0	1.4	3.0	0.0	V-Horn	PK	0.0	46.6	74.0	-27.4
4883.949	39.5	6.2	191.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.7	74.0	-28.3
4883.949	39.5	6.2	251.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.7	74.0	-28.3

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/12/03
Customer:	Intermec Technologies Corporation	Temperature:	77
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.03
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

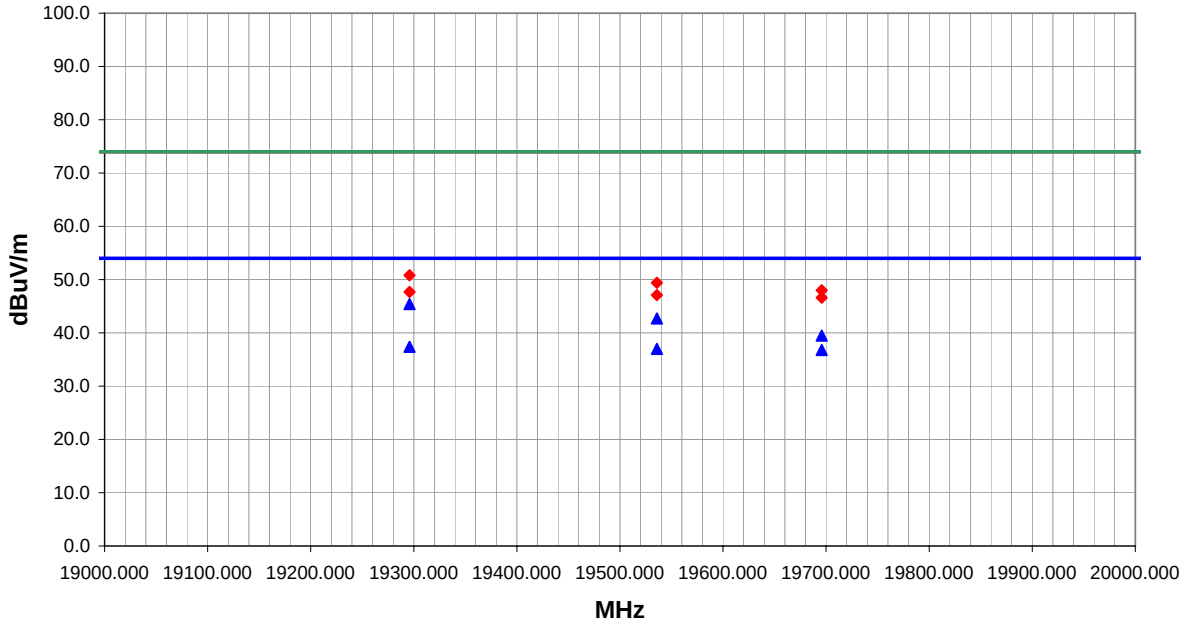
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	49

Other

Tested By:



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)
19295.820	37.2	8.2	32.0	1.3	3.0	0.0	V-High Horr	AV	0.0	45.4	54.0	-8.6
19535.820	34.2	8.5	220.0	1.1	3.0	0.0	V-High Horr	AV	0.0	42.7	54.0	-11.3
19695.820	30.8	8.7	31.0	1.0	3.0	0.0	V-High Horr	AV	0.0	39.5	54.0	-14.5
19295.820	29.2	8.2	224.0	1.0	3.0	0.0	H-High Horr	AV	0.0	37.4	54.0	-16.6
19535.820	28.5	8.5	74.0	1.1	3.0	0.0	H-High Horr	AV	0.0	37.0	54.0	-17.0
19695.820	28.1	8.7	71.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.8	54.0	-17.2
19295.820	42.6	8.2	32.0	1.3	3.0	0.0	V-High Horr	PK	0.0	50.8	74.0	-23.2
19535.820	40.9	8.5	220.0	1.1	3.0	0.0	V-High Horr	PK	0.0	49.4	74.0	-24.6
19695.820	39.3	8.7	31.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.0	74.0	-26.0
19295.820	39.5	8.2	224.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.7	74.0	-26.3
19535.820	38.6	8.5	74.0	1.1	3.0	0.0	H-High Horr	PK	0.0	47.1	74.0	-26.9
19695.820	37.9	8.7	71.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.6	74.0	-27.4

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/09/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

065349 Omni

EUT OPERATING MODES

High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

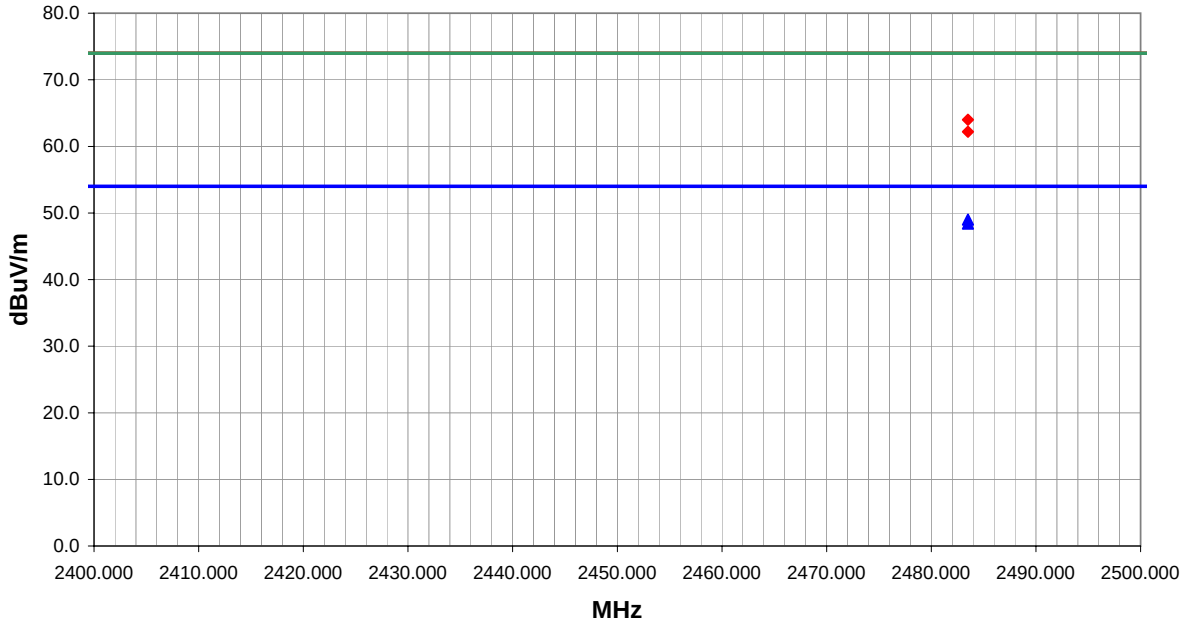
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	10

Other

Tested By: Holly Ashkannejhad



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)
2483.500	32.0	1.0	136.0	1.6	3.0	16.0	V-Horn	AV	0.0	49.0	54.0	-5.0
2483.500	31.4	1.0	216.0	1.3	3.0	16.0	H-Horn	AV	0.0	48.4	54.0	-5.6
2483.500	47.0	1.0	136.0	1.6	3.0	16.0	V-Horn	PK	0.0	64.0	74.0	-10.0
2483.500	45.2	1.0	216.0	1.3	3.0	16.0	H-Horn	PK	0.0	62.2	74.0	-11.8

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/11/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

065349 Omni

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

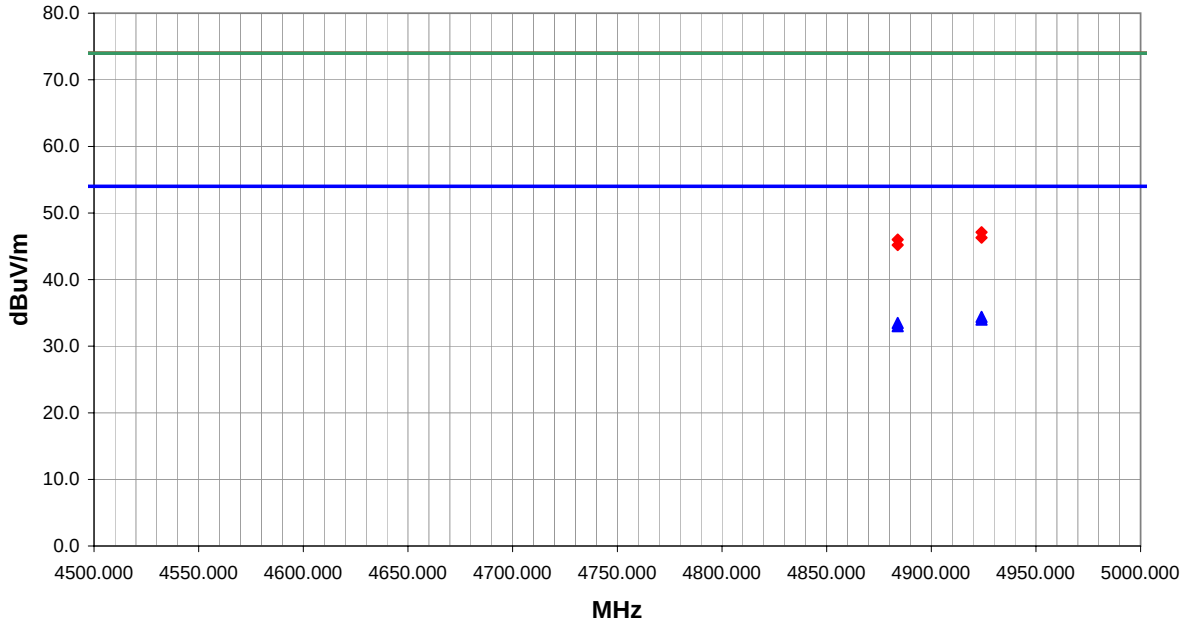
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	30

Other

Tested By:



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)
4923.995	28.2	6.2	189.0	1.1	3.0	0.0	H-Horn	AV	0.0	34.4	54.0	-19.6
4923.995	27.8	6.2	281.0	1.4	3.0	0.0	V-Horn	AV	0.0	34.0	54.0	-20.0
4883.949	27.3	6.2	328.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.5	54.0	-20.5
4883.949	26.8	6.2	93.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.0	54.0	-21.0
4923.995	40.9	6.2	189.0	1.1	3.0	0.0	H-Horn	PK	0.0	47.1	74.0	-26.9
4923.995	40.1	6.2	281.0	1.4	3.0	0.0	V-Horn	PK	0.0	46.3	74.0	-27.7
4883.949	39.8	6.2	93.0	1.2	3.0	0.0	V-Horn	PK	0.0	46.0	74.0	-28.0
4883.949	39.0	6.2	328.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/13/03
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.12
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

065349 Omni

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

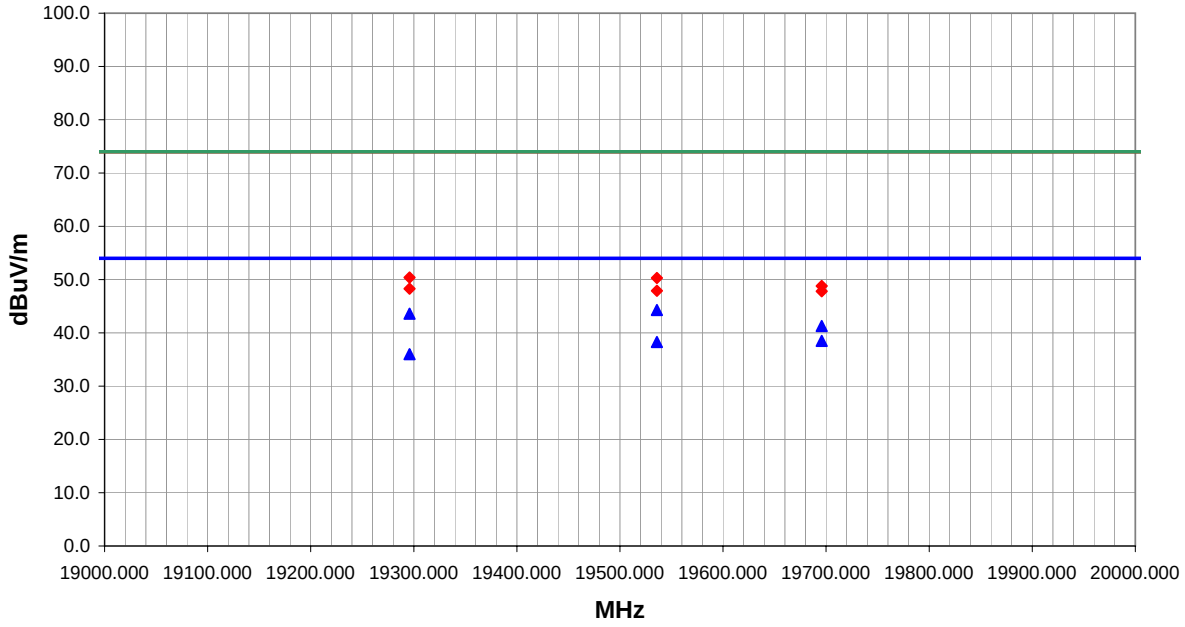
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	54

Other

Tested By:



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)
19535.820	35.8	8.5	348.0	1.4	3.0	0.0	V-High Horr	AV	0.0	44.3	54.0	-9.7
19295.820	35.4	8.2	351.0	1.4	3.0	0.0	V-High Horr	AV	0.0	43.6	54.0	-10.4
19695.820	32.6	8.7	13.0	1.0	3.0	0.0	V-High Horr	AV	0.0	41.3	54.0	-12.7
19695.820	29.8	8.7	313.0	1.4	3.0	0.0	H-High Horr	AV	0.0	38.5	54.0	-15.5
19535.820	29.8	8.5	345.0	1.2	3.0	0.0	H-High Horr	AV	0.0	38.3	54.0	-15.7
19295.820	27.8	8.2	341.0	1.2	3.0	0.0	H-High Horr	AV	0.0	36.0	54.0	-18.0
19295.820	42.2	8.2	351.0	1.4	3.0	0.0	V-High Horr	PK	0.0	50.4	74.0	-23.6
19535.820	41.8	8.5	348.0	1.4	3.0	0.0	V-High Horr	PK	0.0	50.3	74.0	-23.7
19695.820	40.1	8.7	13.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.8	74.0	-25.2
19295.820	40.1	8.2	341.0	1.2	3.0	0.0	H-High Horr	PK	0.0	48.3	74.0	-25.7
19535.820	39.4	8.5	345.0	1.2	3.0	0.0	H-High Horr	PK	0.0	47.9	74.0	-26.1
19695.820	39.1	8.7	313.0	1.4	3.0	0.0	H-High Horr	PK	0.0	47.8	74.0	-26.2

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/09/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

065349 Omni

EUT OPERATING MODES

High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

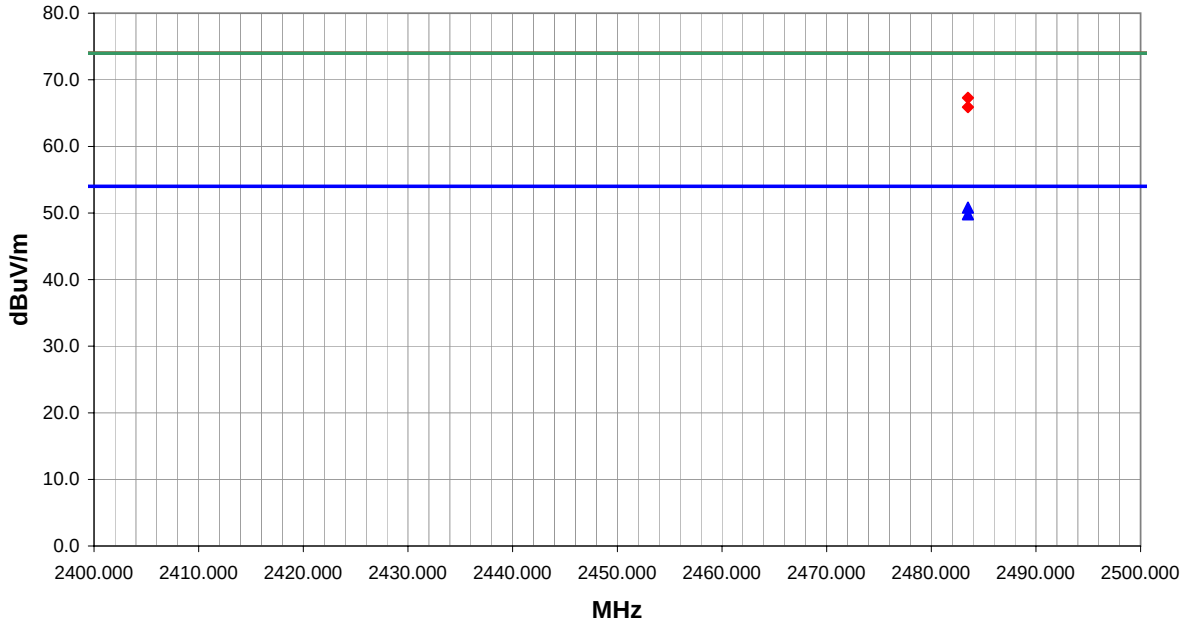
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	11

Other

Tested By:



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)
2483.500	33.8	1.0	91.0	1.2	3.0	16.0	V-Horn	AV	0.0	50.8	54.0	-3.2
2483.500	32.8	1.0	223.0	1.3	3.0	16.0	H-Horn	AV	0.0	49.8	54.0	-4.2
2483.500	50.3	1.0	91.0	1.2	3.0	16.0	V-Horn	PK	0.0	67.3	74.0	-6.7
2483.500	48.9	1.0	223.0	1.3	3.0	16.0	H-Horn	PK	0.0	65.9	74.0	-8.1

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/11/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

065349 Omni

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

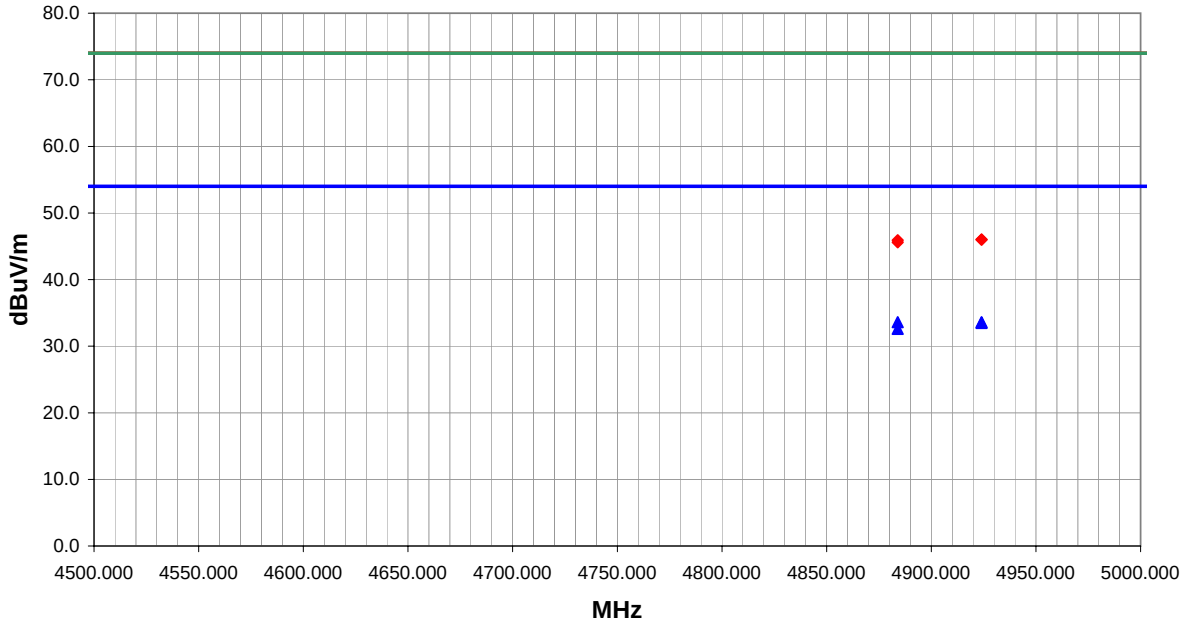
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	33

Other

Tested By:



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)
4923.995	27.4	6.2	175.0	1.1	3.0	0.0	H-Horn	AV	0.0	33.6	54.0	-20.4
4883.949	27.4	6.2	193.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.6	54.0	-20.4
4923.995	27.3	6.2	232.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5
4883.949	26.4	6.2	231.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4
4923.995	39.8	6.2	175.0	1.1	3.0	0.0	H-Horn	PK	0.0	46.0	74.0	-28.0
4923.995	39.8	6.2	232.0	1.1	3.0	0.0	V-Horn	PK	0.0	46.0	74.0	-28.0
4883.949	39.7	6.2	193.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.9	74.0	-28.1
4883.949	39.4	6.2	231.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.6	74.0	-28.4

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/13/03
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.12
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

065349 Omni

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

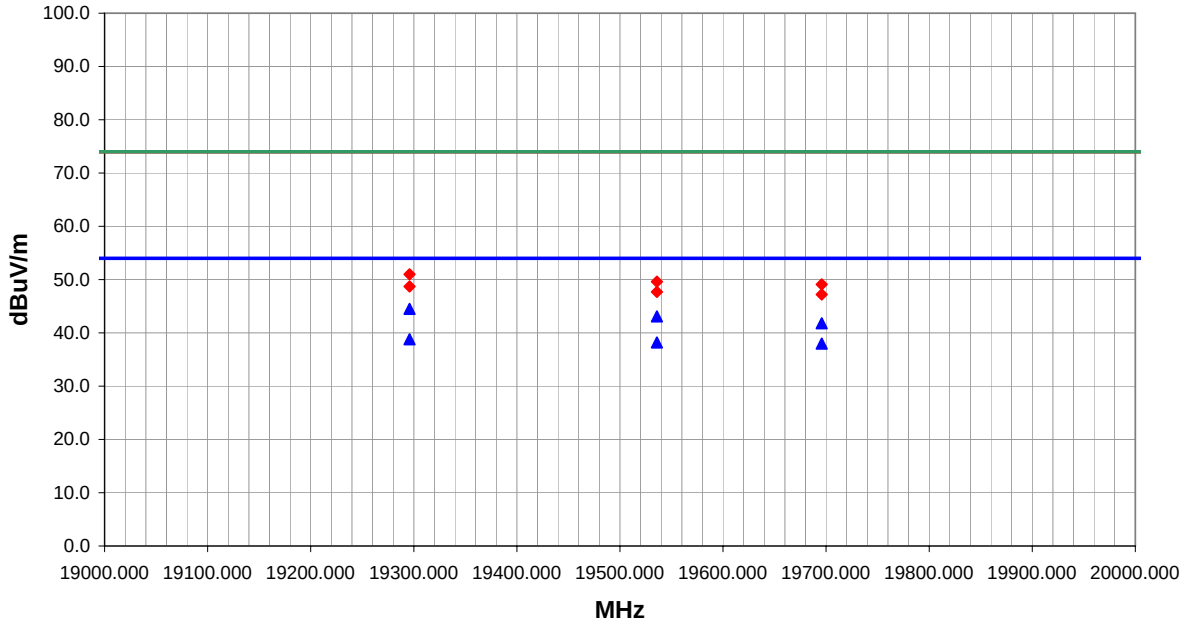
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	55

Other

Tested By:



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)
19295.820	36.3	8.2	295.0	1.2	3.0	0.0	V-High Horr	AV	0.0	44.5	54.0	-9.5
19535.820	34.6	8.5	296.0	1.3	3.0	0.0	V-High Horr	AV	0.0	43.1	54.0	-10.9
19695.820	33.1	8.7	304.0	1.3	3.0	0.0	V-High Horr	AV	0.0	41.8	54.0	-12.2
19295.820	30.6	8.2	335.0	1.2	3.0	0.0	H-High Horr	AV	0.0	38.8	54.0	-15.2
19535.820	29.7	8.5	337.0	1.2	3.0	0.0	H-High Horr	AV	0.0	38.2	54.0	-15.8
19695.820	29.3	8.7	335.0	1.2	3.0	0.0	H-High Horr	AV	0.0	38.0	54.0	-16.0
19295.820	42.8	8.2	295.0	1.2	3.0	0.0	V-High Horr	PK	0.0	51.0	74.0	-23.0
19535.820	41.1	8.5	296.0	1.3	3.0	0.0	V-High Horr	PK	0.0	49.6	74.0	-24.4
19695.820	40.4	8.7	304.0	1.3	3.0	0.0	V-High Horr	PK	0.0	49.1	74.0	-24.9
19295.820	40.5	8.2	335.0	1.2	3.0	0.0	H-High Horr	PK	0.0	48.7	74.0	-25.3
19535.820	39.2	8.5	337.0	1.2	3.0	0.0	H-High Horr	PK	0.0	47.7	74.0	-26.3
19695.820	38.5	8.7	335.0	1.2	3.0	0.0	H-High Horr	PK	0.0	47.2	74.0	-26.8

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/09/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

066147 Omni

EUT OPERATING MODES

High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

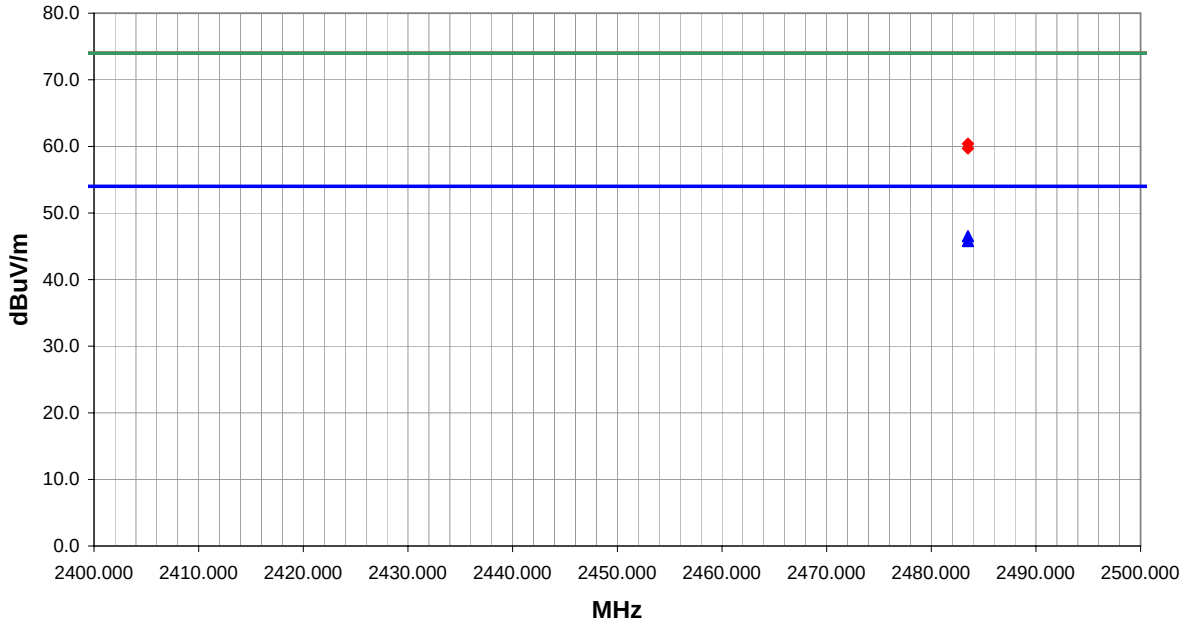
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	12

Other

Tested By: Holly Ashkannejhad



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)
2483.500	29.5	1.0	247.0	1.2	3.0	16.0	V-Horn	AV	0.0	46.5	54.0	-7.5
2483.500	28.8	1.0	221.0	1.3	3.0	16.0	H-Horn	AV	0.0	45.8	54.0	-8.2
2483.500	43.4	1.0	247.0	1.2	3.0	16.0	V-Horn	PK	0.0	60.4	74.0	-13.6
2483.500	42.7	1.0	221.0	1.3	3.0	16.0	H-Horn	PK	0.0	59.7	74.0	-14.3

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/12/03
Customer:	Intermec Technologies Corporation			Temperature:	77
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	30.03
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

066147 Omni

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

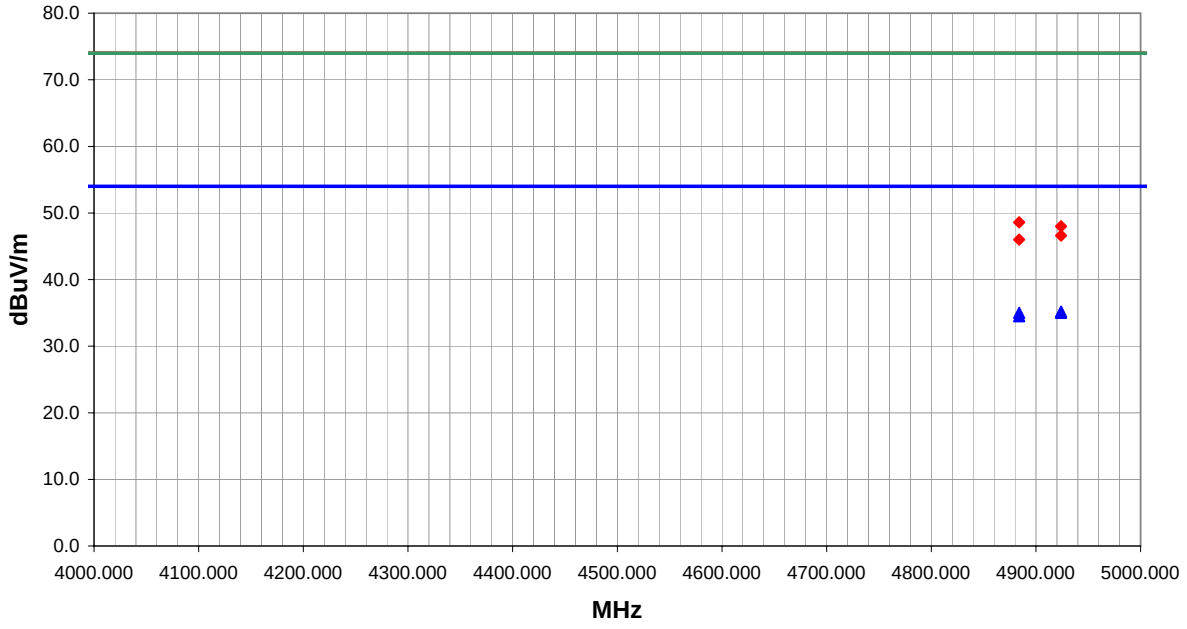
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	41

Other

Tested By:



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)
4923.995	29.0	6.2	273.0	1.4	3.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8
4923.995	28.8	6.2	155.0	1.4	3.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0
4883.949	28.8	6.2	245.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.0	54.0	-19.0
4883.949	28.3	6.2	275.0	2.0	3.0	0.0	H-Horn	AV	0.0	34.5	54.0	-19.5
4883.949	42.4	6.2	245.0	1.0	3.0	0.0	V-Horn	PK	0.0	48.6	74.0	-25.4
4923.995	41.8	6.2	273.0	1.4	3.0	0.0	V-Horn	PK	0.0	48.0	74.0	-26.0
4923.995	40.4	6.2	155.0	1.4	3.0	0.0	H-Horn	PK	0.0	46.6	74.0	-27.4
4883.949	39.8	6.2	275.0	2.0	3.0	0.0	H-Horn	PK	0.0	46.0	74.0	-28.0

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/12/03
Customer:	Intermec Technologies Corporation	Temperature:	77
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.03
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

066147 Omni

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

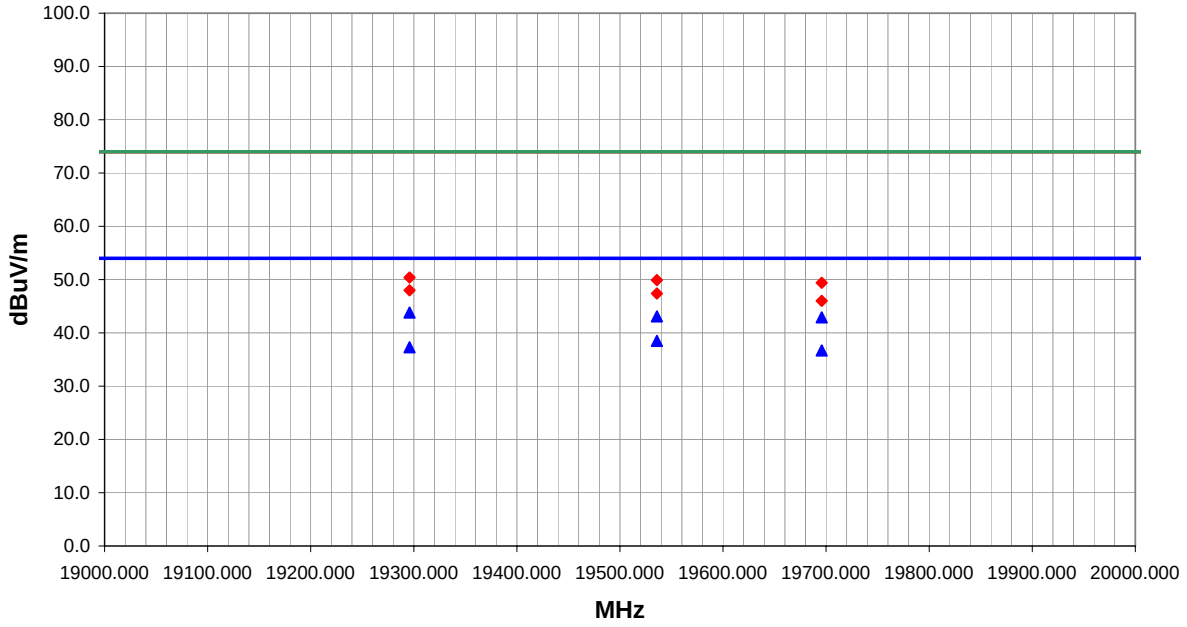
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	47

Other

Tested By:



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)
19295.820	35.6	8.2	209.0	1.0	3.0	0.0	V-High Horr	AV	0.0	43.8	54.0	-10.2
19535.820	34.6	8.5	8.0	1.2	3.0	0.0	V-High Horr	AV	0.0	43.1	54.0	-10.9
19695.820	34.2	8.7	216.0	1.0	3.0	0.0	V-High Horr	AV	0.0	42.9	54.0	-11.1
19535.820	30.0	8.5	339.0	1.2	3.0	0.0	H-High Horr	AV	0.0	38.5	54.0	-15.5
19295.820	29.1	8.2	40.0	1.0	3.0	0.0	H-High Horr	AV	0.0	37.3	54.0	-16.7
19695.820	28.0	8.7	229.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.7	54.0	-17.3
19295.820	42.2	8.2	209.0	1.0	3.0	0.0	V-High Horr	PK	0.0	50.4	74.0	-23.6
19535.820	41.4	8.5	8.0	1.2	3.0	0.0	V-High Horr	PK	0.0	49.9	74.0	-24.1
19695.820	40.7	8.7	216.0	1.0	3.0	0.0	V-High Horr	PK	0.0	49.4	74.0	-24.6
19295.820	39.8	8.2	40.0	1.0	3.0	0.0	H-High Horr	PK	0.0	48.0	74.0	-26.0
19535.820	38.9	8.5	339.0	1.2	3.0	0.0	H-High Horr	PK	0.0	47.4	74.0	-26.6
19695.820	37.3	8.7	229.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.0	74.0	-28.0

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/09/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

066147 Omni

EUT OPERATING MODES

High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

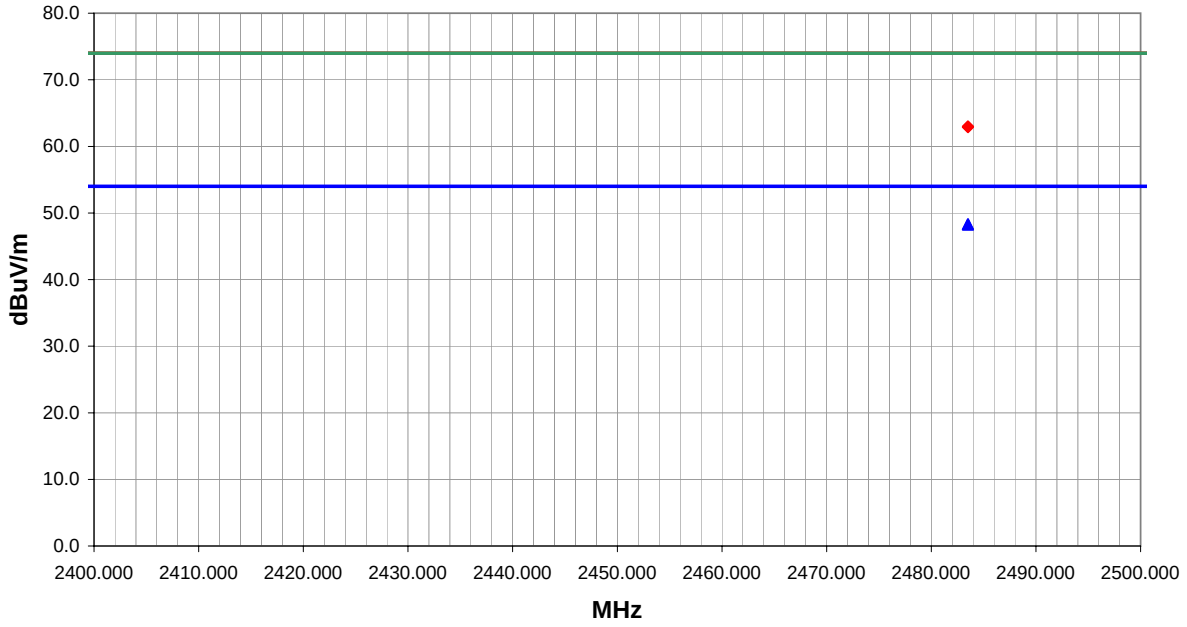
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	13

Other

Tested By: Holly Ashkannejhad



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)
2483.500	31.3	1.0	263.0	1.2	3.0	16.0	V-Horn	AV	0.0	48.3	54.0	-5.7
2483.500	31.3	1.0	19.0	1.3	3.0	16.0	H-Horn	AV	0.0	48.3	54.0	-5.7
2483.500	46.0	1.0	263.0	1.2	3.0	16.0	V-Horn	PK	0.0	63.0	74.0	-11.0
2483.500	45.9	1.0	19.0	1.3	3.0	16.0	H-Horn	PK	0.0	62.9	74.0	-11.1

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/12/03
Customer:	Intermec Technologies Corporation	Temperature:	77
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.03
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

066147 Omni

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

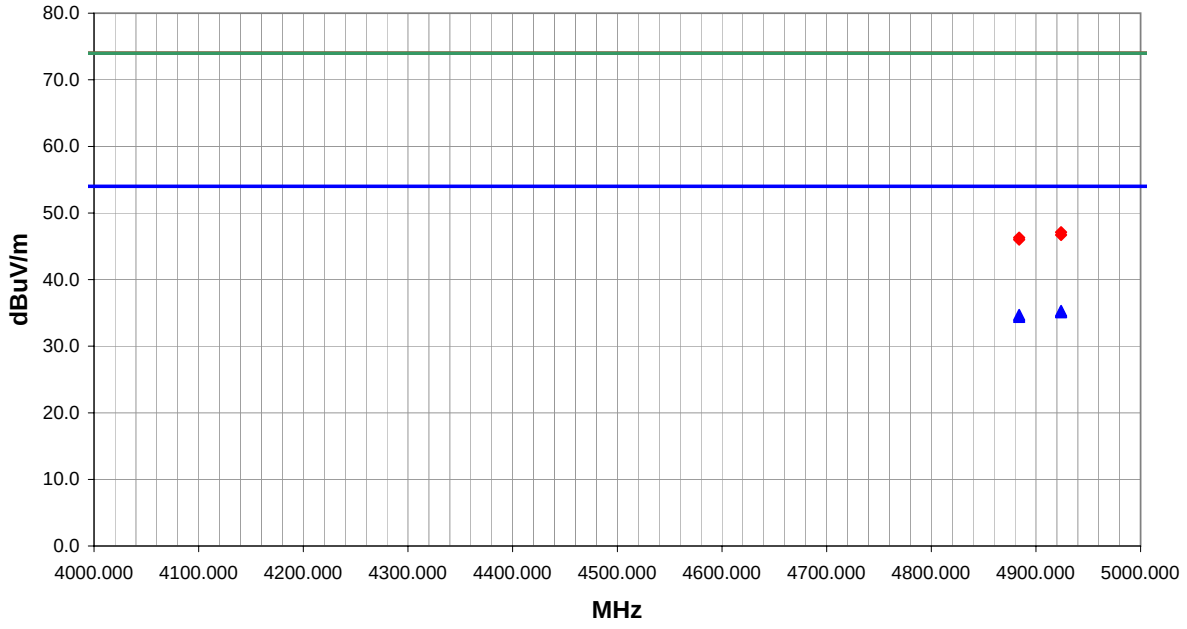
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	42

Other

Tested By:



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)
4923.995	29.1	6.2	244.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.3	54.0	-18.7
4923.995	28.9	6.2	166.0	1.1	3.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9
4883.949	28.5	6.2	245.0	1.8	3.0	0.0	V-Horn	AV	0.0	34.7	54.0	-19.3
4883.949	28.2	6.2	168.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.4	54.0	-19.6
4923.995	40.9	6.2	244.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.1	74.0	-26.9
4923.995	40.5	6.2	166.0	1.1	3.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3
4883.949	40.1	6.2	245.0	1.8	3.0	0.0	V-Horn	PK	0.0	46.3	74.0	-27.7
4883.949	39.8	6.2	168.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.0	74.0	-28.0

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/12/03
Customer:	Intermec Technologies Corporation	Temperature:	77
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.03
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

066147 Omni

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

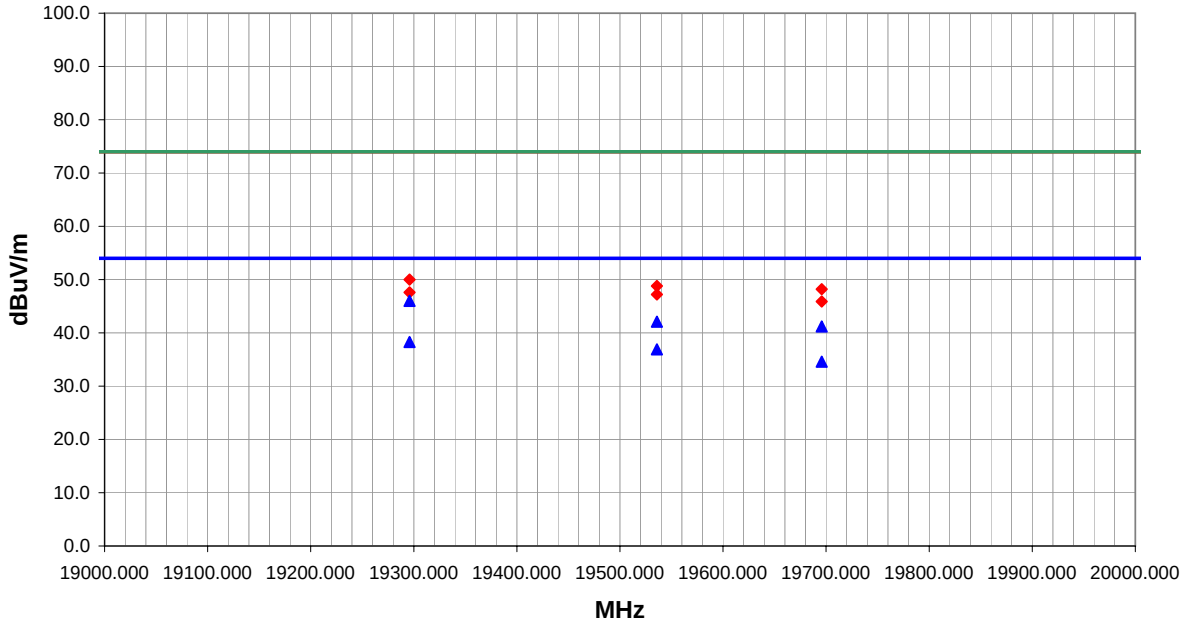
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	46

Other

Tested By:



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)
19295.820	37.8	8.2	17.0	1.0	3.0	0.0	V-High Horr	AV	0.0	46.0	54.0	-8.0
19535.820	33.6	8.5	25.0	1.0	3.0	0.0	V-High Horr	AV	0.0	42.1	54.0	-11.9
19695.820	32.5	8.7	213.0	1.0	3.0	0.0	V-High Horr	AV	0.0	41.2	54.0	-12.8
19295.820	30.1	8.2	13.0	1.0	3.0	0.0	H-High Horr	AV	0.0	38.3	54.0	-15.7
19535.820	28.4	8.5	228.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.9	54.0	-17.1
19695.820	25.9	8.7	64.0	1.0	3.0	0.0	H-High Horr	AV	0.0	34.6	54.0	-19.4
19295.820	41.8	8.2	17.0	1.0	3.0	0.0	V-High Horr	PK	0.0	50.0	74.0	-24.0
19535.820	40.3	8.5	25.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.8	74.0	-25.2
19695.820	39.5	8.7	213.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.2	74.0	-25.8
19295.820	39.4	8.2	13.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.6	74.0	-26.4
19535.820	38.7	8.5	228.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.2	74.0	-26.8
19695.820	37.2	8.7	64.0	1.0	3.0	0.0	H-High Horr	PK	0.0	45.9	74.0	-28.1

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/13/03
Customer:	Intermec Technologies Corporation	Temperature:	79
Attendees:		Humidity:	35%
Cust. Ref. No.:		Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071121 Diversity

EUT OPERATING MODES

High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

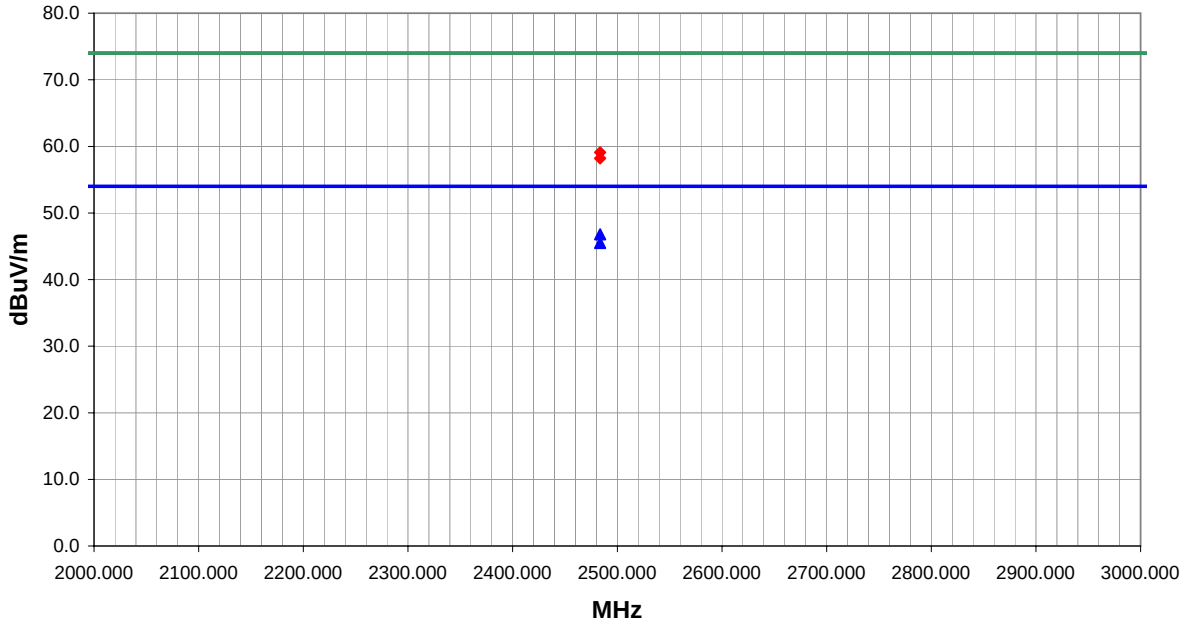
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	44

Other

Tested By: Holly Ashkannejhad



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)
2483.500	29.8	1.0	90.0	1.2	3.0	16.0	V-Horn	AV	0.0	46.8	54.0	-7.2
2483.500	28.5	1.0	22.0	1.3	3.0	16.0	H-Horn	AV	0.0	45.5	54.0	-8.5
2483.500	42.1	1.0	90.0	1.2	3.0	16.0	V-Horn	PK	0.0	59.1	74.0	-14.9
2483.500	41.2	1.0	23.0	1.3	3.0	16.0	V-Horn	PK	0.0	58.2	74.0	-15.8

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/12/03
Customer:	Intermec Technologies Corporation			Temperature:	77
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	30.03
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

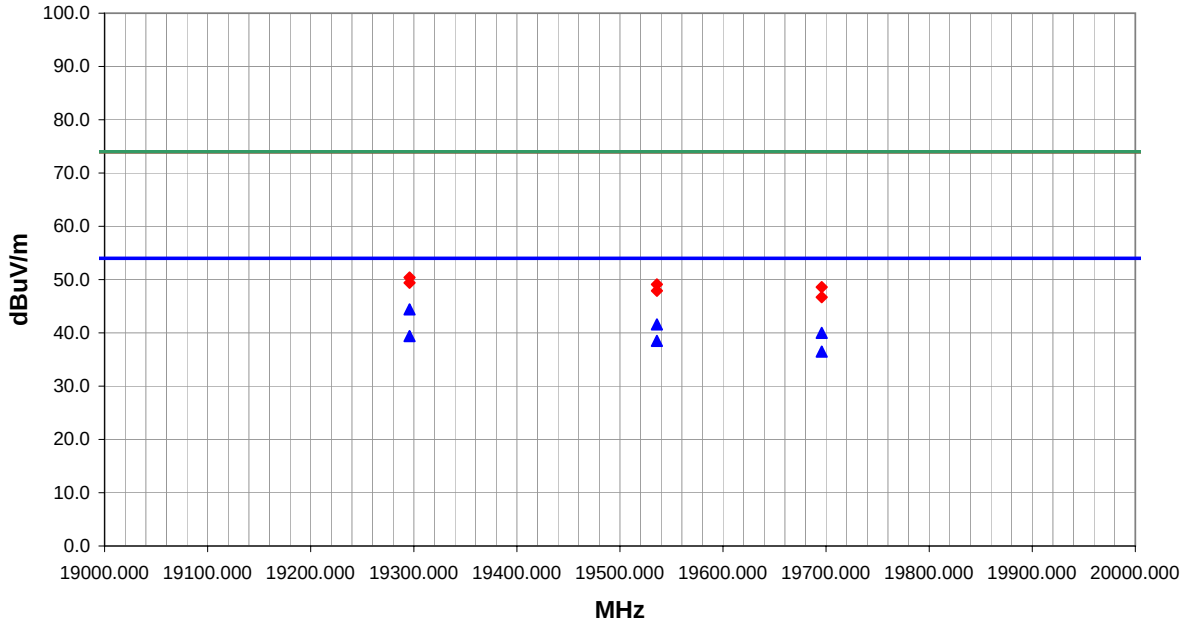
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	48

Other

Tested By:



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)
19295.820	36.2	8.2	220.0	1.0	3.0	0.0	V-High Horr	AV	0.0	44.4	54.0	-9.6
19535.820	33.1	8.5	24.0	1.0	3.0	0.0	V-High Horr	AV	0.0	41.6	54.0	-12.4
19695.820	31.3	8.7	348.0	1.0	3.0	0.0	V-High Horr	AV	0.0	40.0	54.0	-14.0
19295.820	31.2	8.2	293.0	1.0	3.0	0.0	H-High Horr	AV	0.0	39.4	54.0	-14.6
19535.820	30.0	8.5	234.0	1.0	3.0	0.0	H-High Horr	AV	0.0	38.5	54.0	-15.5
19695.820	27.8	8.7	72.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.5	54.0	-17.5
19295.820	42.2	8.2	220.0	1.0	3.0	0.0	V-High Horr	PK	0.0	50.4	74.0	-23.6
19295.820	41.2	8.2	293.0	1.0	3.0	0.0	H-High Horr	PK	0.0	49.4	74.0	-24.6
19535.820	40.6	8.5	24.0	1.0	3.0	0.0	V-High Horr	PK	0.0	49.1	74.0	-24.9
19695.820	39.9	8.7	348.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.6	74.0	-25.4
19535.820	39.4	8.5	234.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.9	74.0	-26.1
19695.820	38.0	8.7	72.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.7	74.0	-27.3

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/13/03
Customer:	Intermec Technologies Corporation	Temperature:	77
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.03
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071121 Diversity

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

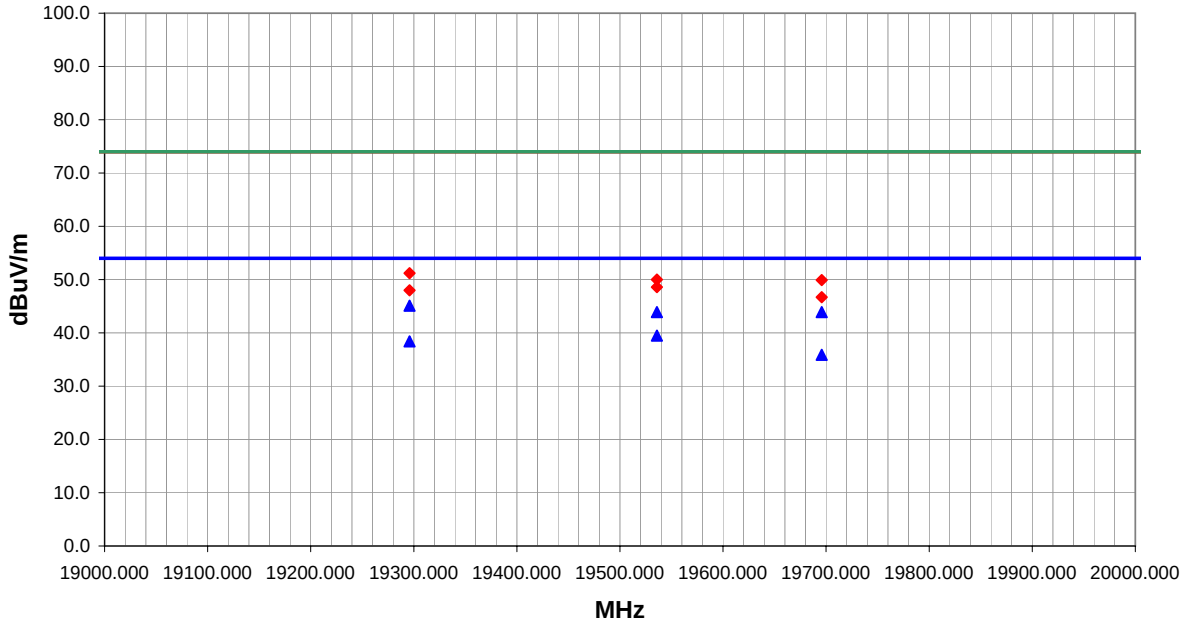
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	57

Other

Tested By:



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)
19295.820	36.9	8.2	315.0	1.0	3.0	0.0	V-High Horr	AV	0.0	45.1	54.0	-8.9
19535.820	35.4	8.5	320.0	1.2	3.0	0.0	V-High Horr	AV	0.0	43.9	54.0	-10.1
19695.820	35.2	8.7	320.0	1.3	3.0	0.0	V-High Horr	AV	0.0	43.9	54.0	-10.1
19535.820	31.0	8.5	67.0	1.1	3.0	0.0	H-High Horr	AV	0.0	39.5	54.0	-14.5
19295.820	30.2	8.2	241.0	1.1	3.0	0.0	H-High Horr	AV	0.0	38.4	54.0	-15.6
19695.820	27.2	8.7	243.0	1.0	3.0	0.0	H-High Horr	AV	0.0	35.9	54.0	-18.1
19295.820	43.0	8.2	315.0	1.0	3.0	0.0	V-High Horr	PK	0.0	51.2	74.0	-22.8
19535.820	41.5	8.5	320.0	1.2	3.0	0.0	V-High Horr	PK	0.0	50.0	74.0	-24.0
19695.820	41.2	8.7	320.0	1.3	3.0	0.0	V-High Horr	PK	0.0	49.9	74.0	-24.1
19535.820	40.1	8.5	67.0	1.1	3.0	0.0	H-High Horr	PK	0.0	48.6	74.0	-25.4
19295.820	39.8	8.2	241.0	1.1	3.0	0.0	H-High Horr	PK	0.0	48.0	74.0	-26.0
19695.820	38.0	8.7	243.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.7	74.0	-27.3

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/13/03
Customer:	Intermec Technologies Corporation	Temperature:	79
Attendees:		Humidity:	35%
Cust. Ref. No.:		Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071121 Diversity

EUT OPERATING MODES

High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

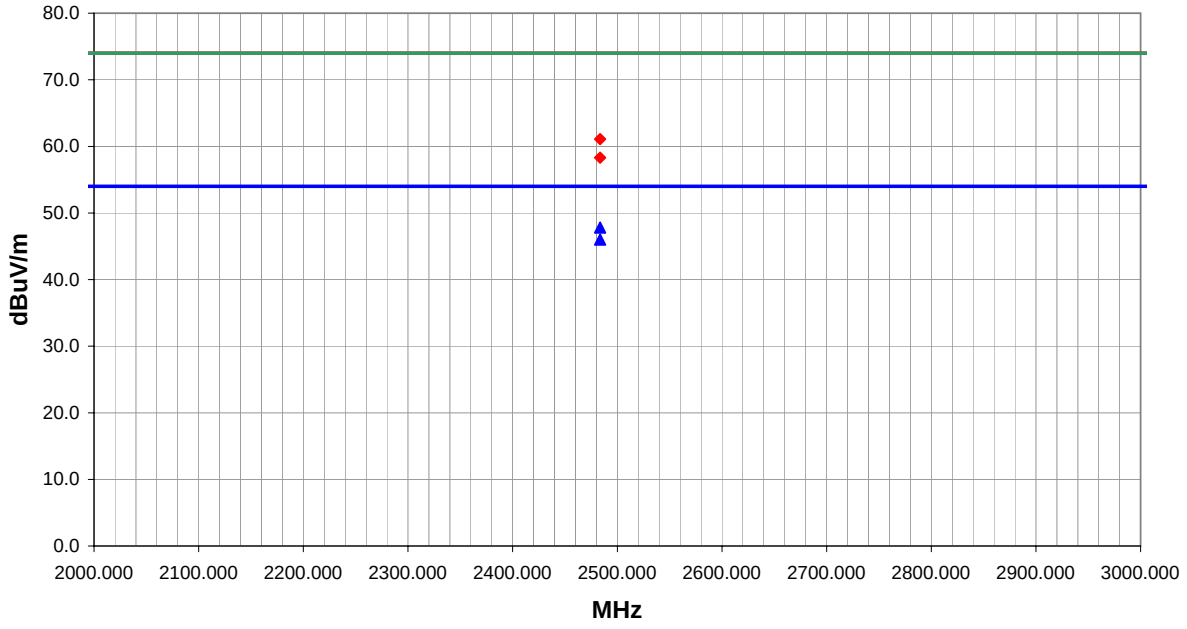
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	45

Other

Tested By:



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)
2483.500	30.8	1.0	82.0	1.2	3.0	16.0	V-Horn	AV	0.0	47.8	54.0	-6.2
2483.500	29.0	1.0	20.0	1.3	3.0	16.0	H-Horn	AV	0.0	46.0	54.0	-8.0
2483.500	44.1	1.0	81.0	1.2	3.0	16.0	V-Horn	PK	0.0	61.1	74.0	-12.9
2483.500	41.3	1.0	19.0	1.3	3.0	16.0	V-Horn	PK	0.0	58.3	74.0	-15.7

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/13/03
Customer:	Intermec Technologies Corporation			Temperature:	77
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071121 Diversity

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

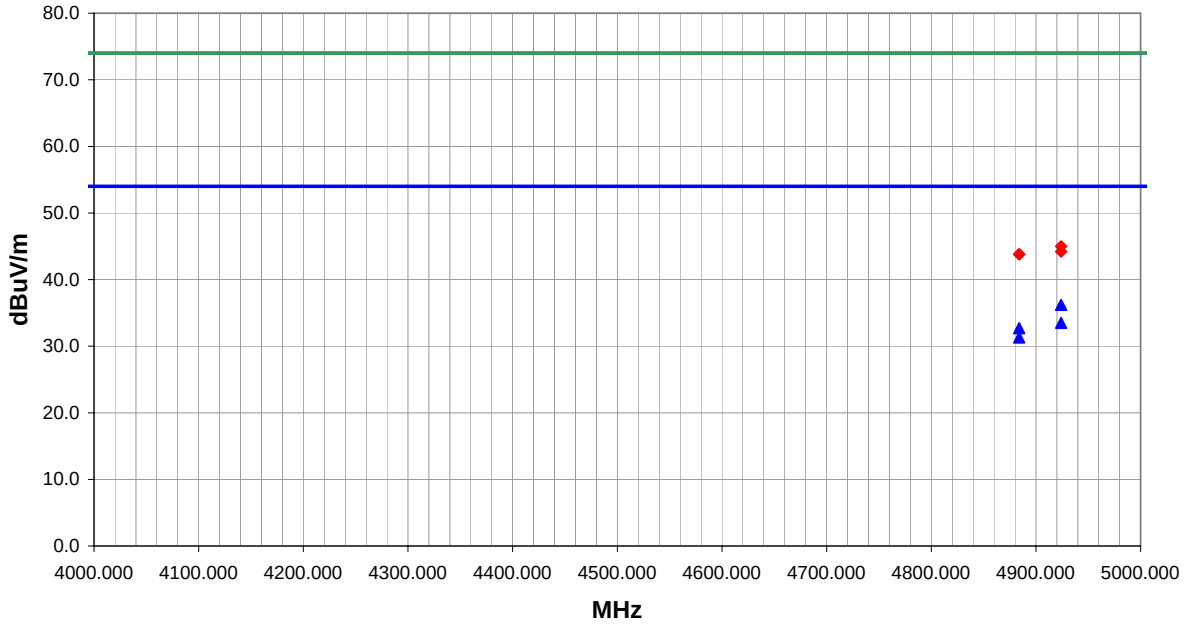
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	47

Other

Tested By:



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)
4923.995	30.0	6.2	301.0	1.5	3.0	0.0	V-Horn	AV	0.0	36.2	54.0	-17.8
4923.995	27.3	6.2	194.0	1.9	3.0	0.0	H-Horn	AV	0.0	33.5	54.0	-20.5
4883.949	26.5	6.2	304.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3
4883.949	25.1	6.2	256.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.3	54.0	-22.7
4923.995	38.8	6.2	300.0	1.5	3.0	0.0	V-Horn	PK	0.0	45.0	74.0	-29.0
4923.995	38.0	6.2	193.0	1.9	3.0	0.0	H-Horn	PK	0.0	44.2	74.0	-29.8
4883.949	37.6	6.2	255.0	1.3	3.0	0.0	V-Horn	PK	0.0	43.8	74.0	-30.2
4883.949	37.6	6.2	302.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.8	74.0	-30.2

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/13/03
Customer:	Intermec Technologies Corporation			Temperature:	77
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	30.03
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071121 Diversity

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

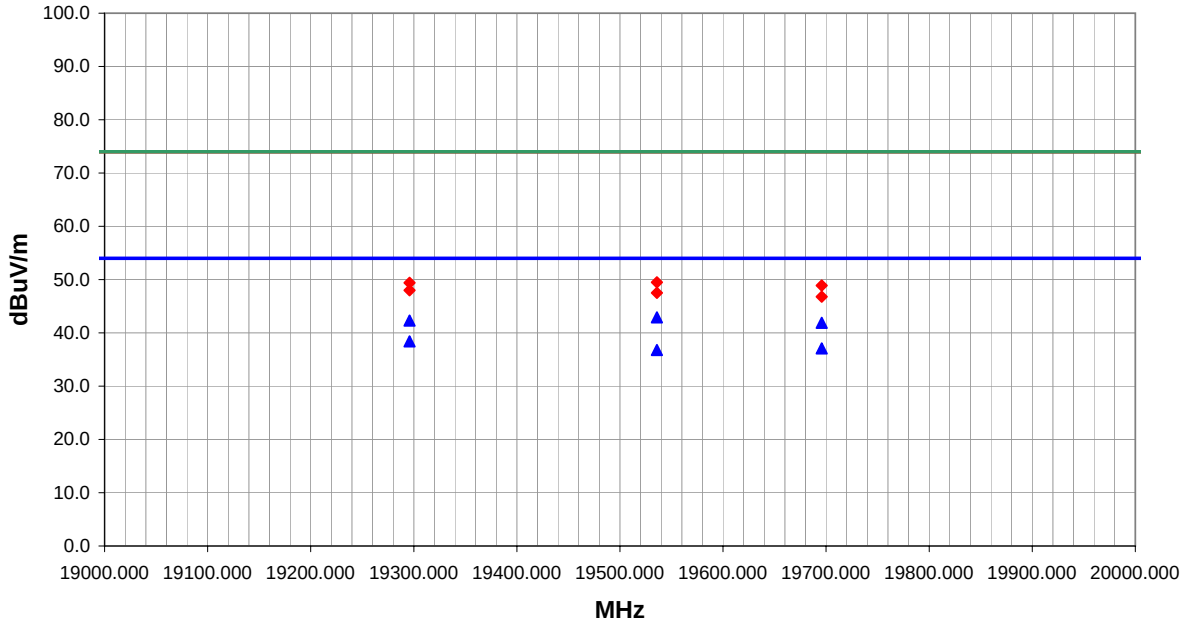
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	58

Other

Tested By:



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)
19535.820	34.4	8.5	234.0	1.0	3.0	0.0	V-High Horr	AV	0.0	42.9	54.0	-11.1
19295.820	34.1	8.2	241.0	1.2	3.0	0.0	H-High Horr	AV	0.0	42.3	54.0	-11.7
19695.820	33.2	8.7	234.0	1.0	3.0	0.0	V-High Horr	AV	0.0	41.9	54.0	-12.1
19295.820	30.2	8.2	260.0	1.0	3.0	0.0	H-High Horr	AV	0.0	38.4	54.0	-15.6
19695.820	28.4	8.7	328.0	1.0	3.0	0.0	H-High Horr	AV	0.0	37.1	54.0	-16.9
19535.820	28.3	8.5	259.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.8	54.0	-17.2
19535.820	41.0	8.5	234.0	1.0	3.0	0.0	V-High Horr	PK	0.0	49.5	74.0	-24.5
19295.820	41.2	8.2	241.0	1.2	3.0	0.0	H-High Horr	PK	0.0	49.4	74.0	-24.6
19695.820	40.2	8.7	234.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.9	74.0	-25.1
19295.820	39.8	8.2	260.0	1.0	3.0	0.0	H-High Horr	PK	0.0	48.0	74.0	-26.0
19535.820	39.0	8.5	259.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.5	74.0	-26.5
19695.820	38.1	8.7	328.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.8	74.0	-27.2

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/09/03
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:		Humidity:	35%
Cust. Ref. No.:		Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071122 Corner Reflector

EUT OPERATING MODES

High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

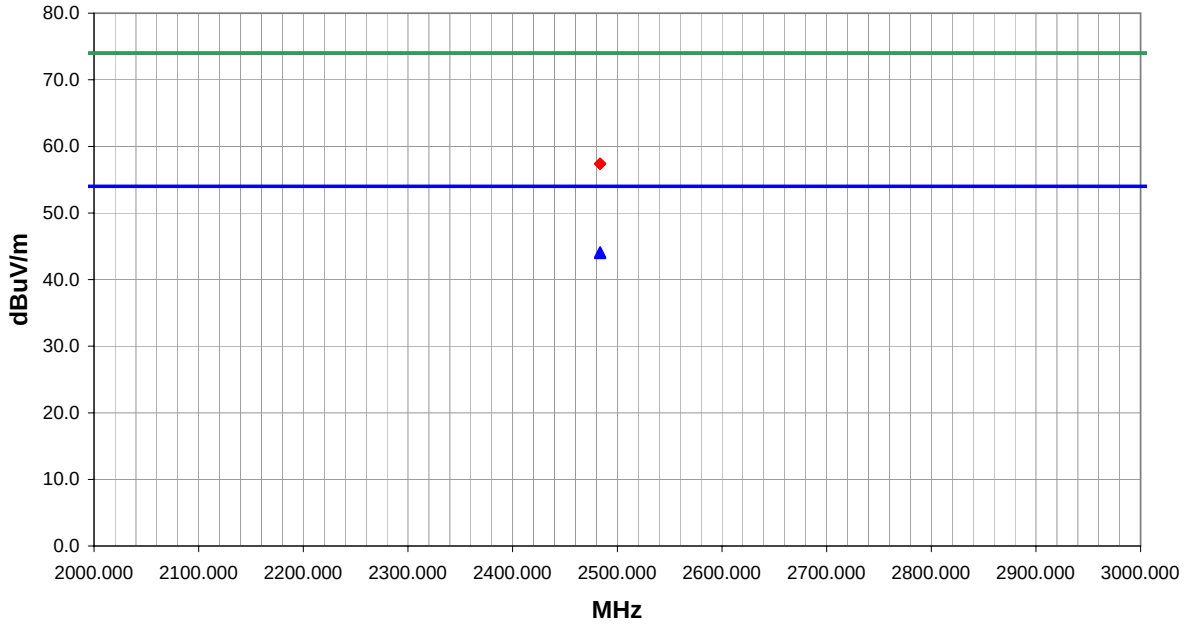
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	4

Other

Tested By: Holly Ashkannejhad



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)
2483.500	27.1	1.0	195.0	1.3	3.0	16.0	H-Horn	AV	0.0	44.1	54.0	-9.9
2483.500	27.0	1.0	244.0	2.4	3.0	16.0	V-Horn	AV	0.0	44.0	54.0	-10.0
2483.500	40.4	1.0	195.0	1.3	3.0	16.0	H-Horn	PK	0.0	57.4	74.0	-16.6
2483.500	40.4	1.0	244.0	2.4	3.0	16.0	V-Horn	PK	0.0	57.4	74.0	-16.6

NORTHWEST
EMC

OATS DATA SHEET

REV
df3.11
06/23/2003

EUT:	802MIG2 Radio			**Work Order:**	inmc0086
Serial Number:	none			**Date:**	07/11/03
Customer:	Intermec Technologies Corporation			**Temperature:**	77
Attendees:				**Humidity:**	41%
Cust. Ref. No.:				**Barometric Pressure**	30.03
Tested by:	Holly Ashkannejhad	**Power:**	120VAC/60Hz	**Job Site:**	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	**Year:**	2001
Method:	ANSI C63.4	**Year:**	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071122 Corner Reflector

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

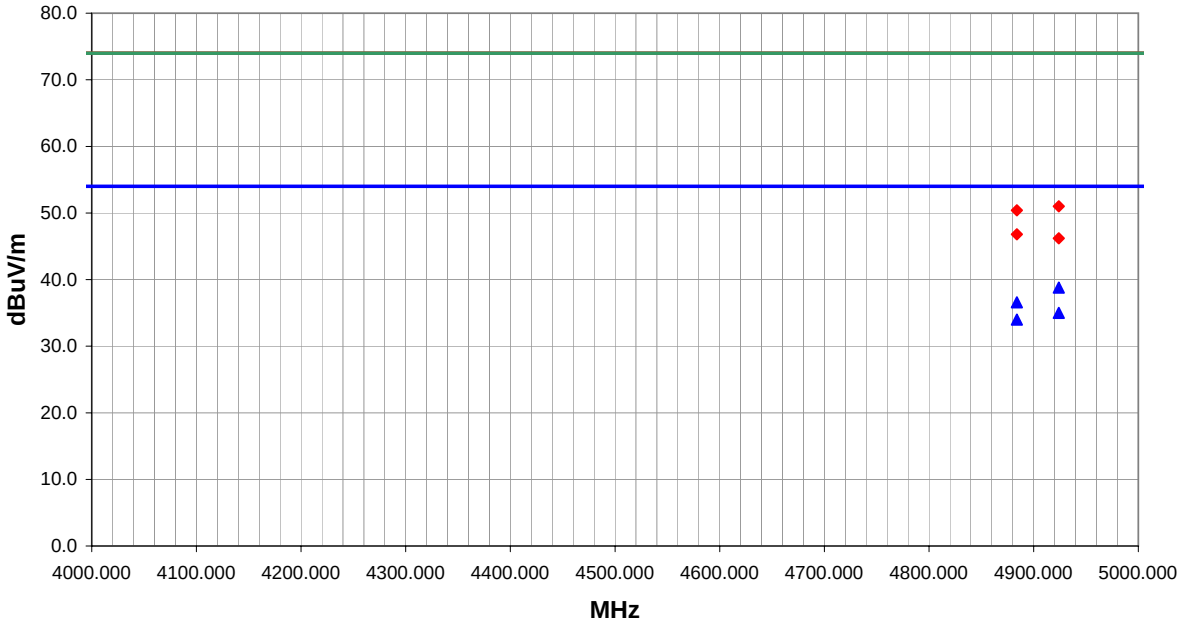
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	**Run #**
Pass	39

Other

Tested By:



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
4923.995	32.6	6.2	285.0	1.1	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	High channel
4883.949	30.4	6.2	274.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.6	54.0	-17.4	Mid channel
4923.995	28.8	6.2	337.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0	High channel
4883.949	27.8	6.2	323.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0	Mid channel
4923.995	44.8	6.2	285.0	1.1	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	High channel
4883.949	44.2	6.2	274.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.4	74.0	-23.6	Mid channel
4883.949	40.6	6.2	323.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.8	74.0	-27.2	Mid channel
4923.995	40.0	6.2	337.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.2	74.0	-27.8	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/12/03
Customer:	Intermec Technologies Corporation	Temperature:	77
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.03
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071122 Corner Reflector

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

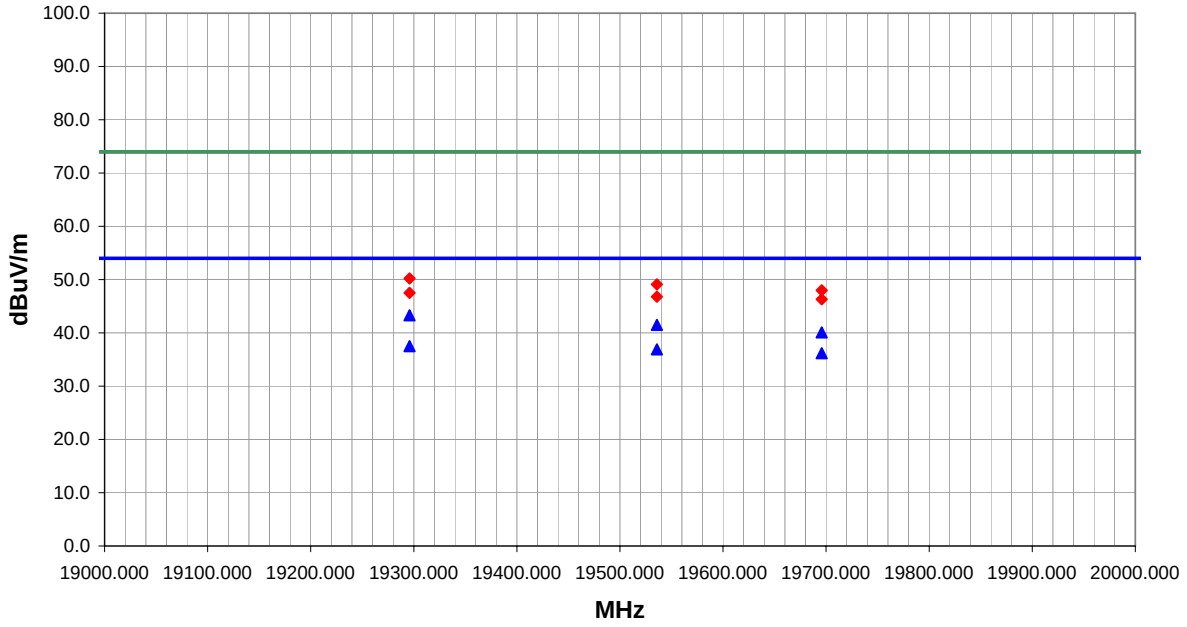
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	50

Other

Tested By:



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)
19295.820	35.1	8.2	230.0	1.0	3.0	0.0	V-High Horr	AV	0.0	43.3	54.0	-10.7
19535.820	33.0	8.5	22.0	1.0	3.0	0.0	V-High Horr	AV	0.0	41.5	54.0	-12.5
19695.820	31.4	8.7	348.0	1.0	3.0	0.0	V-High Horr	AV	0.0	40.1	54.0	-13.9
19295.820	29.3	8.2	333.0	1.0	3.0	0.0	H-High Horr	AV	0.0	37.5	54.0	-16.5
19535.820	28.4	8.5	228.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.9	54.0	-17.1
19695.820	27.5	8.7	319.0	1.0	3.0	0.0	H-High Horr	AV	0.0	36.2	54.0	-17.8
19295.820	42.0	8.2	230.0	1.0	3.0	0.0	V-High Horr	PK	0.0	50.2	74.0	-23.8
19535.820	40.6	8.5	22.0	1.0	3.0	0.0	V-High Horr	PK	0.0	49.1	74.0	-24.9
19695.820	39.3	8.7	348.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.0	74.0	-26.0
19295.820	39.3	8.2	333.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.5	74.0	-26.5
19535.820	38.3	8.5	228.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.8	74.0	-27.2
19695.820	37.6	8.7	319.0	1.0	3.0	0.0	H-High Horr	PK	0.0	46.3	74.0	-27.7

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/09/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071122 Corner Reflector

EUT OPERATING MODES

High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

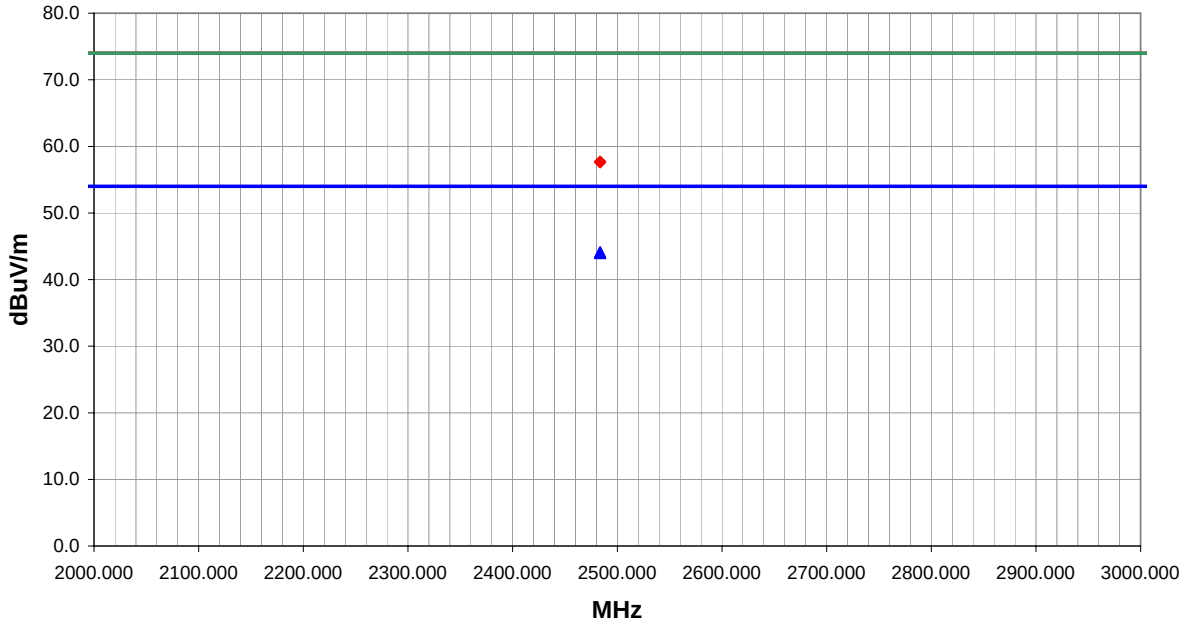
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	5

Other

Tested By: Holly Ashkannejhad



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)
2483.500	27.1	1.0	242.0	2.3	3.0	16.0	V-Horn	AV	0.0	44.1	54.0	-9.9
2483.500	27.0	1.0	286.0	1.3	3.0	16.0	H-Horn	AV	0.0	44.0	54.0	-10.0
2483.500	40.7	1.0	242.0	2.3	3.0	16.0	V-Horn	PK	0.0	57.7	74.0	-16.3
2483.500	40.6	1.0	286.0	1.3	3.0	16.0	H-Horn	PK	0.0	57.6	74.0	-16.4

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/12/03
Customer:	Intermec Technologies Corporation	Temperature:	77
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.03
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071122 Corner Reflector

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

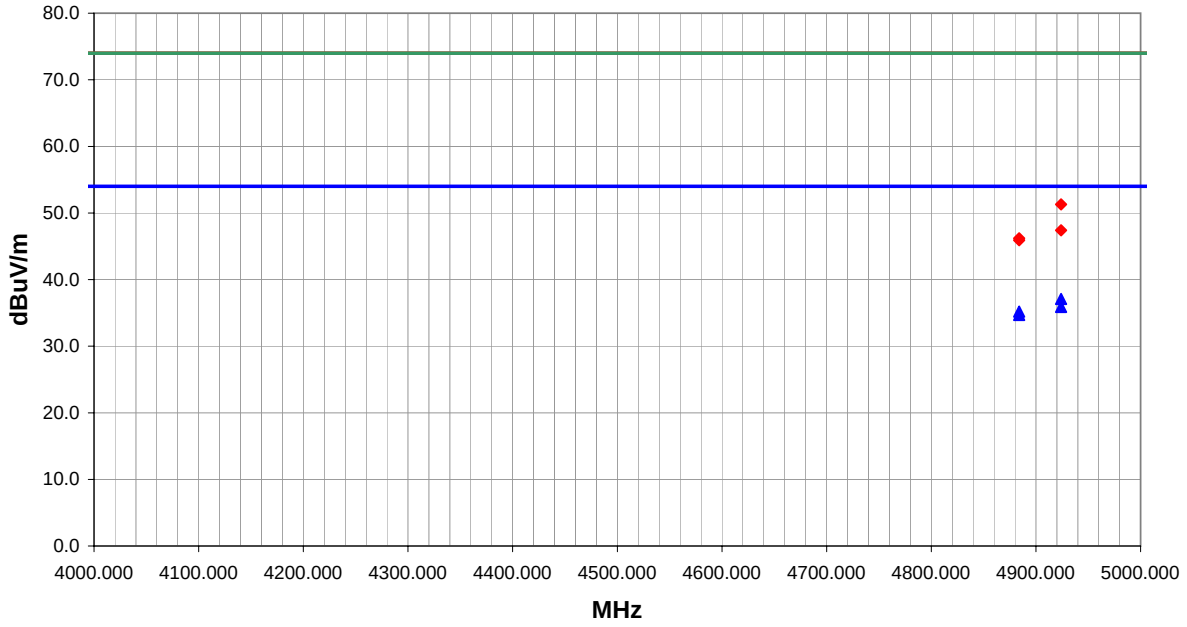
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	40

Other

Tested By:



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)
4923.995	30.9	6.2	108.0	1.1	3.0	0.0	V-Horn	AV	0.0	37.1	54.0	-16.9
4923.995	29.7	6.2	164.0	1.1	3.0	0.0	H-Horn	AV	0.0	35.9	54.0	-18.1
4883.949	29.0	6.2	324.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.2	54.0	-18.8
4883.949	28.5	6.2	244.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.7	54.0	-19.3
4923.995	45.1	6.2	108.0	1.1	3.0	0.0	V-Horn	PK	0.0	51.3	74.0	-22.7
4923.995	41.2	6.2	164.0	1.1	3.0	0.0	H-Horn	PK	0.0	47.4	74.0	-26.6
4883.949	40.0	6.2	324.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.2	74.0	-27.8
4883.949	39.7	6.2	244.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.9	74.0	-28.1

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/13/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	30.12
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

071122 Corner Reflector

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

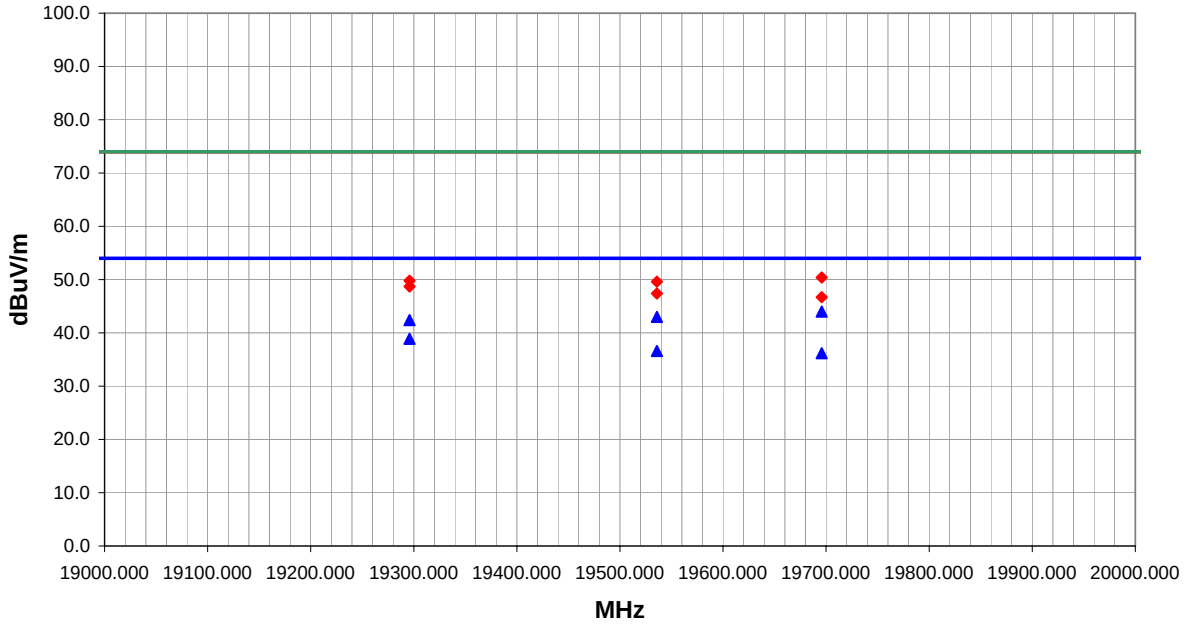
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	51

Other

Tested By:



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)
19695.820	35.3	8.7	339.0	1.4	3.0	0.0	V-High Horr	AV	0.0	44.0	54.0	-10.0
19535.820	34.5	8.5	354.0	1.2	3.0	0.0	V-High Horr	AV	0.0	43.0	54.0	-11.0
19295.820	34.2	8.2	221.0	1.1	3.0	0.0	V-High Horr	AV	0.0	42.4	54.0	-11.6
19295.820	30.7	8.2	300.0	1.0	3.0	0.0	H-High Horr	AV	0.0	38.9	54.0	-15.1
19535.820	28.1	8.5	214.0	1.1	3.0	0.0	H-High Horr	AV	0.0	36.6	54.0	-17.4
19695.820	27.5	8.7	304.0	1.1	3.0	0.0	H-High Horr	AV	0.0	36.2	54.0	-17.8
19695.820	41.7	8.7	339.0	1.4	3.0	0.0	V-High Horr	PK	0.0	50.4	74.0	-23.6
19295.820	41.6	8.2	221.0	1.1	3.0	0.0	V-High Horr	PK	0.0	49.8	74.0	-24.2
19535.820	41.1	8.5	354.0	1.2	3.0	0.0	V-High Horr	PK	0.0	49.6	74.0	-24.4
19295.820	40.5	8.2	300.0	1.0	3.0	0.0	H-High Horr	PK	0.0	48.7	74.0	-25.3
19535.820	38.9	8.5	214.0	1.1	3.0	0.0	H-High Horr	PK	0.0	47.4	74.0	-26.6
19695.820	38.0	8.7	304.0	1.1	3.0	0.0	H-High Horr	PK	0.0	46.7	74.0	-27.3

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/10/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

067263 Flat Panel

EUT OPERATING MODES

High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

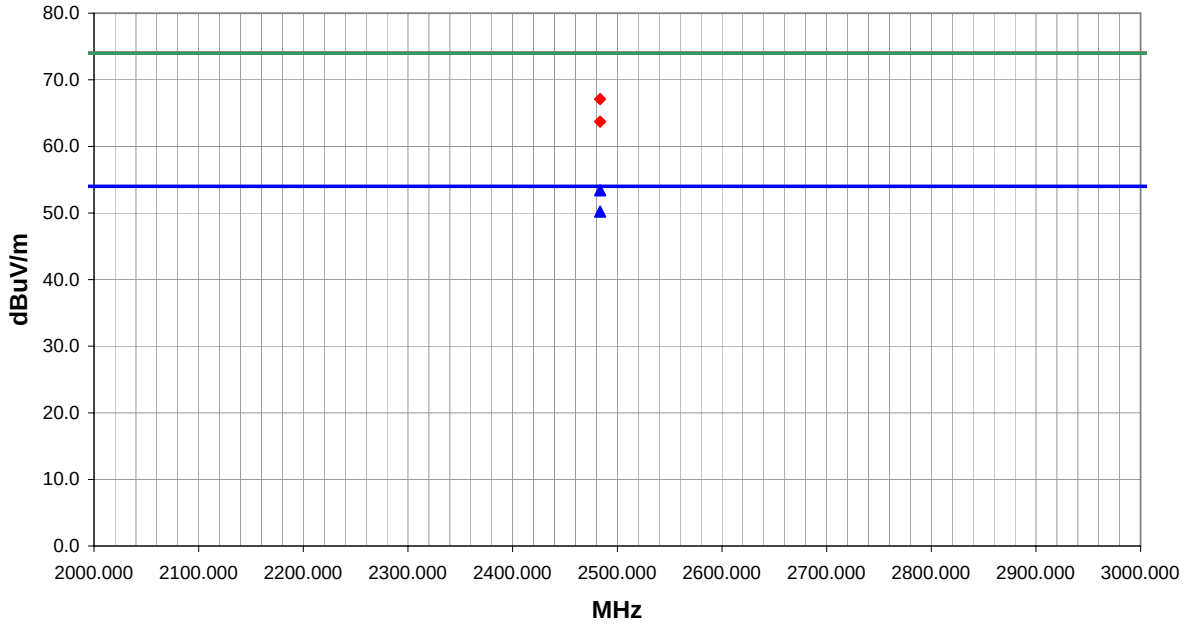
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	20

Other

Tested By:



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)
2483.500	32.4	1.0	202.0	1.2	3.0	20.0	V-Horn	AV	0.0	53.4	54.0	-0.6
2483.500	29.2	1.0	179.0	2.1	3.0	20.0	H-Horn	AV	0.0	50.2	54.0	-3.8
2483.500	46.1	1.0	202.0	1.2	3.0	20.0	V-Horn	PK	0.0	67.1	74.0	-6.9
2483.500	42.7	1.0	179.0	2.1	3.0	20.0	H-Horn	PK	0.0	63.7	74.0	-10.3

NORTHWEST
EMC

OATS DATA SHEET

REV
df3.11
06/23/2003

EUT:	802MIG2 Radio			**Work Order:**	inmc0086
Serial Number:	none			**Date:**	07/10/03
Customer:	Intermec Technologies Corporation			**Temperature:**	75
Attendees:				**Humidity:**	41%
Cust. Ref. No.:				**Barometric Pressure**	29.96
Tested by:	Holly Ashkannejhad	**Power:**	120VAC/60Hz	**Job Site:**	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	**Year:**	2001
Method:	ANSI C63.4	**Year:**	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

067263 Flat Panel

EUT OPERATING MODES

Mid (7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

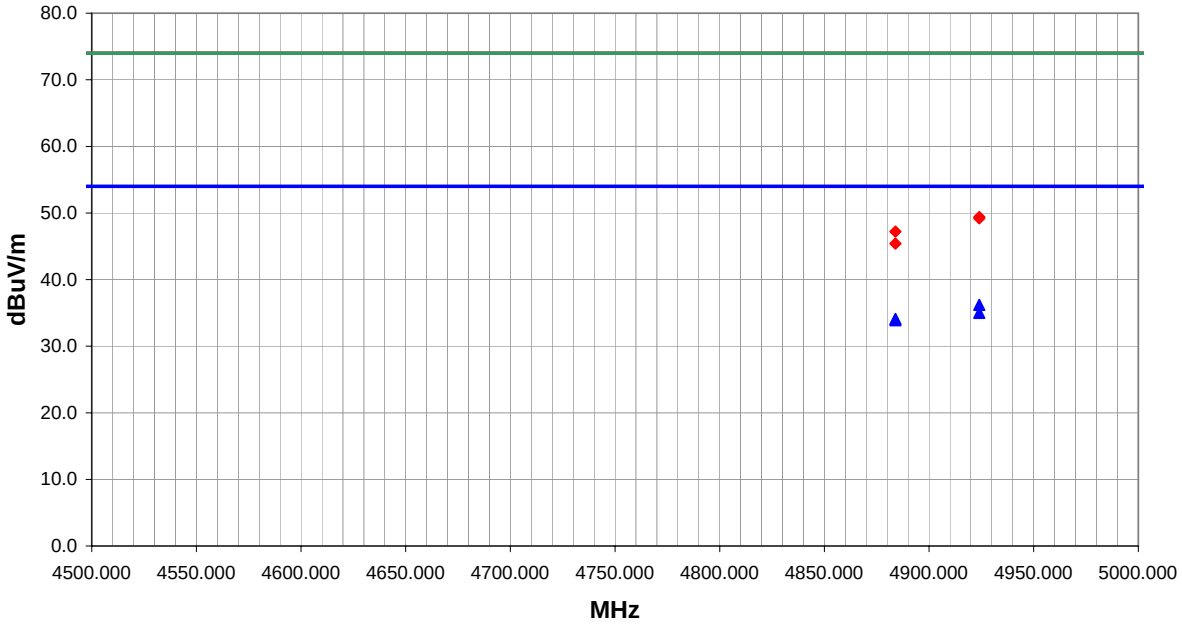
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	**Run #**
Pass	22

Other

Tested By:



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
4923.995	30.0	6.2	219.0	1.6	3.0	0.0	H-Horn	AV	0.0	36.2	54.0	-17.8	High channel
4923.995	28.8	6.2	154.0	1.5	3.0	0.0	V-Horn	AV	0.0	35.0	54.0	-19.0	High channel
4883.949	27.9	6.2	283.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.1	54.0	-19.9	Mid channel
4883.949	27.7	6.2	151.0	1.9	3.0	0.0	V-Horn	AV	0.0	33.9	54.0	-20.1	Mid channel
4923.995	43.2	6.2	219.0	1.6	3.0	0.0	H-Horn	PK	0.0	49.4	74.0	-24.6	High channel
4923.995	43.0	6.2	154.0	1.5	3.0	0.0	V-Horn	PK	0.0	49.2	74.0	-24.8	High channel
4883.949	41.0	6.2	151.0	1.9	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8	Mid channel
4883.949	39.2	6.2	283.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.4	74.0	-28.6	Mid channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	inmc0086
Serial Number:	none	Date:	07/13/03
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:		Humidity:	41%
Cust. Ref. No.:		Barometric Pressure	30.12
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

067263 Flat Panel

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(b) 11Mbit, Power Level = 60.

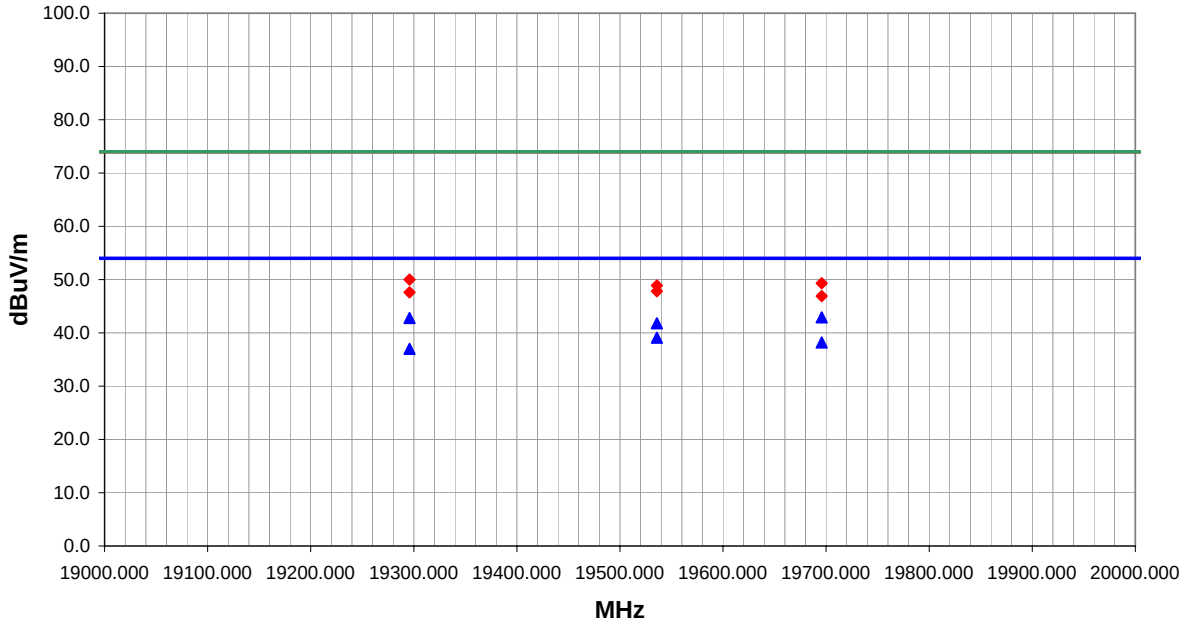
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	52

Other

Tested By:



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)
19695.820	34.2	8.7	351.0	1.4	3.0	0.0	V-High Horr	AV	0.0	42.9	54.0	-11.1
19295.820	34.6	8.2	0.0	1.0	3.0	0.0	V-High Horr	AV	0.0	42.8	54.0	-11.2
19535.820	33.3	8.5	217.0	1.1	3.0	0.0	V-High Horr	AV	0.0	41.8	54.0	-12.2
19535.820	30.6	8.5	320.0	1.4	3.0	0.0	H-High Horr	AV	0.0	39.1	54.0	-14.9
19695.820	29.5	8.7	316.0	1.4	3.0	0.0	H-High Horr	AV	0.0	38.2	54.0	-15.8
19295.820	28.8	8.2	292.0	1.0	3.0	0.0	H-High Horr	AV	0.0	37.0	54.0	-17.0
19295.820	41.8	8.2	0.0	1.0	3.0	0.0	V-High Horr	PK	0.0	50.0	74.0	-24.0
19695.820	40.6	8.7	351.0	1.4	3.0	0.0	V-High Horr	PK	0.0	49.3	74.0	-24.7
19535.820	40.4	8.5	217.0	1.1	3.0	0.0	V-High Horr	PK	0.0	48.9	74.0	-25.1
19535.820	39.3	8.5	320.0	1.4	3.0	0.0	H-High Horr	PK	0.0	47.8	74.0	-26.2
19295.820	39.4	8.2	292.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.6	74.0	-26.4
19695.820	38.2	8.7	316.0	1.4	3.0	0.0	H-High Horr	PK	0.0	46.9	74.0	-27.1

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/10/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Greg Kiemel	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

067263 Flat Panel

EUT OPERATING MODES

High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

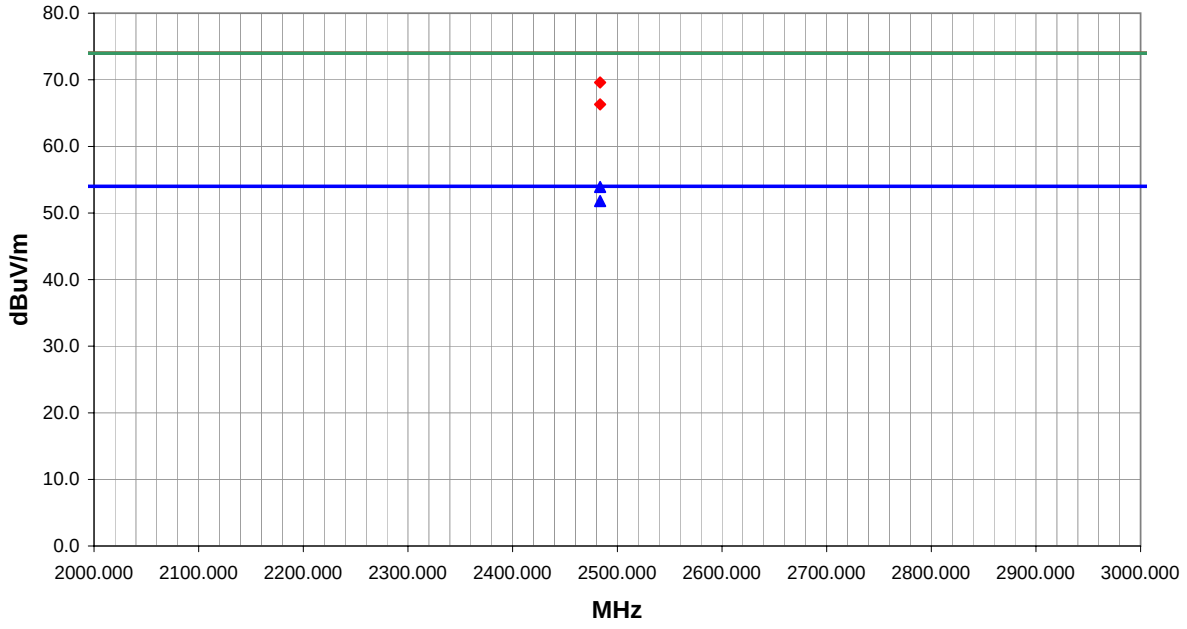
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	19

Other

Tested By:



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)
2483.500	32.9	1.0	205.0	1.2	3.0	20.0	V-Horn	AV	0.0	53.9	54.0	-0.1
2483.500	30.8	1.0	191.0	1.0	3.0	20.0	H-Horn	AV	0.0	51.8	54.0	-2.2
2483.500	48.6	1.0	205.0	1.2	3.0	20.0	V-Horn	PK	0.0	69.6	74.0	-4.4
2483.500	45.3	1.0	191.0	1.0	3.0	20.0	H-Horn	PK	0.0	66.3	74.0	-7.7

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/11/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	29.96
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

067263 Flat Panel

EUT OPERATING MODES

Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

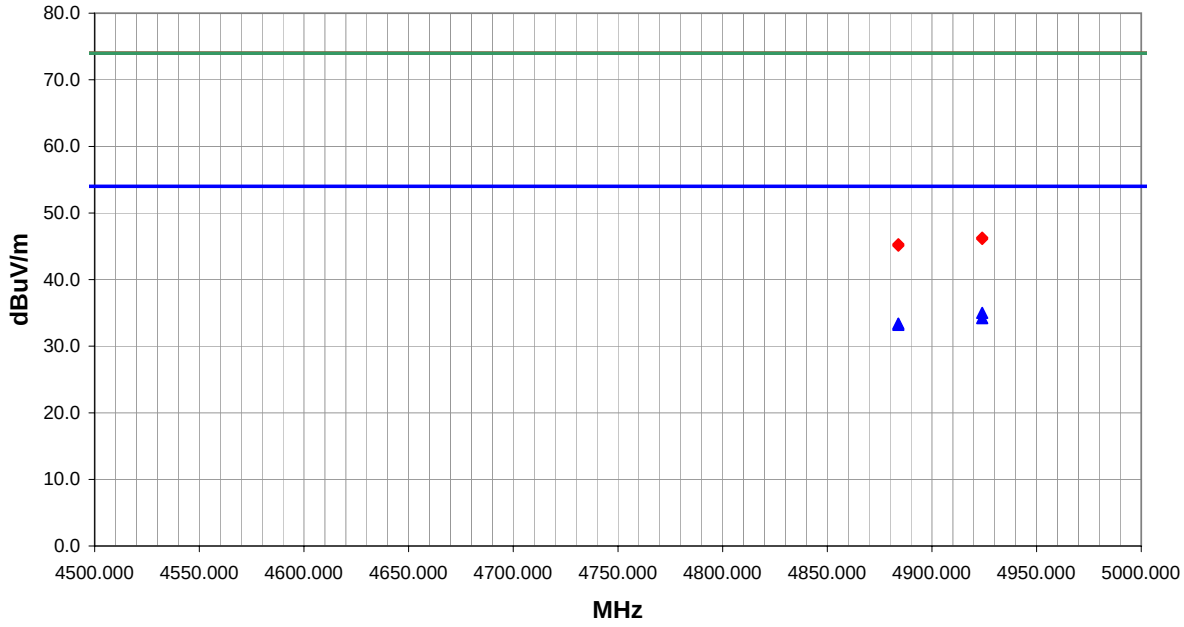
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	24

Other

Tested By:



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)	
4923.995	28.8	6.2	155.0	1.3	3.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0	High (11) Channel
4923.995	28.0	6.2	222.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.2	54.0	-19.8	High (11) Channel
4883.949	27.2	6.2	182.0	1.6	3.0	0.0	H-Horn	AV	0.0	33.4	54.0	-20.6	Mid (7) Channel
4883.949	27.0	6.2	273.0	1.7	3.0	0.0	V-Horn	AV	0.0	33.2	54.0	-20.8	Mid (7) Channel
4923.995	40.1	6.2	155.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.3	74.0	-27.7	High (11) Channel
4923.995	39.9	6.2	222.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.1	74.0	-27.9	High (11) Channel
4883.949	39.1	6.2	273.0	1.7	3.0	0.0	V-Horn	PK	0.0	45.3	74.0	-28.7	Mid (7) Channel
4883.949	38.9	6.2	182.0	1.6	3.0	0.0	H-Horn	PK	0.0	45.1	74.0	-28.9	Mid (7) Channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/13/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	41%
Cust. Ref. No.:				Barometric Pressure	30.12
Tested by:	Dan Haas	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2001
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

067263 Flat Panel

EUT OPERATING MODES

Low (1), Mid(7) and High(11) Channel, 802.11(g) 6Mbit, Power Level = 60.

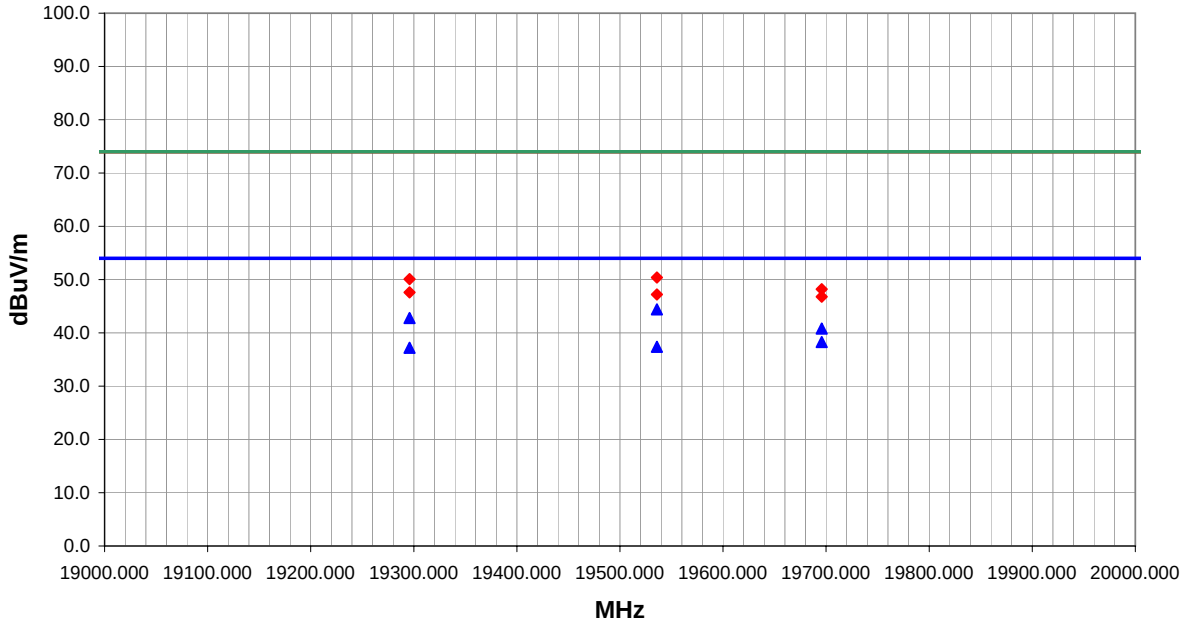
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	53

Other

Tested By:



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)
19535.820	35.9	8.5	349.0	1.4	3.0	0.0	V-High Horr	AV	0.0	44.4	54.0	-9.6
19295.820	34.6	8.2	354.0	1.2	3.0	0.0	V-High Horr	AV	0.0	42.8	54.0	-11.2
19695.820	32.1	8.7	12.0	1.0	3.0	0.0	V-High Horr	AV	0.0	40.8	54.0	-13.2
19695.820	29.6	8.7	312.0	1.4	3.0	0.0	H-High Horr	AV	0.0	38.3	54.0	-15.7
19535.820	28.9	8.5	57.0	1.0	3.0	0.0	H-High Horr	AV	0.0	37.4	54.0	-16.6
19295.820	29.0	8.2	342.0	1.2	3.0	0.0	H-High Horr	AV	0.0	37.2	54.0	-16.8
19535.820	41.9	8.5	349.0	1.4	3.0	0.0	V-High Horr	PK	0.0	50.4	74.0	-23.6
19295.820	41.9	8.2	354.0	1.2	3.0	0.0	V-High Horr	PK	0.0	50.1	74.0	-23.9
19695.820	39.5	8.7	12.0	1.0	3.0	0.0	V-High Horr	PK	0.0	48.2	74.0	-25.8
19295.820	39.4	8.2	342.0	1.2	3.0	0.0	H-High Horr	PK	0.0	47.6	74.0	-26.4
19535.820	38.7	8.5	57.0	1.0	3.0	0.0	H-High Horr	PK	0.0	47.2	74.0	-26.8
19695.820	38.1	8.7	312.0	1.4	3.0	0.0	H-High Horr	PK	0.0	46.8	74.0	-27.2

Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
High
Mid
Low

Operating Modes Investigated:
802.11(b)
802.11(g)

Data Rates Investigated:
6 Mbit
11 Mbit
36 Mbit
54 Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
Battery

Software\Firmware Applied During Test			
Exercise software	FccTest.exe	Version	1/1/1601
Description			
The system was tested using special software developed to test all functions of the device during the test. The software allowed the selection of transmit channel and data rate. These were varied to produce the highest level of emissions. The OS of the host device was Ver. 0.00.00.0072			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Mini-PCI to CardBus Extender	TDK	Rev. 2	ICMB-68FYGC-0M03
802.11(b) and 802.11(g) radio	Intermec Technologies Corporation	802MIG2	C1
Laptop	Dell	PPL	0009321C-12800-8B6-0901
Power Adapter 1	Dell	PA-2	85391
Power Adapter 2	CUI Stack	DX-57AAT	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Leads	PA	1.6	Yes	Laptop	Power Adapter 1
AC Power	No	1.6	No	Power Adapter 1	AC Mains
DC Leads	PA	1.8	No	802.11(b) and 802.11(g) radio	Power Adapter 2
AC Power	PA	1.4	PA	Power Adapter 2	AC Mains

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

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

Test Description

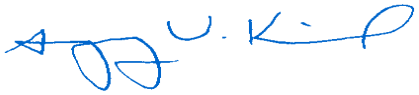
Requirement: Per 47 CFR 15.247(d), the peak power spectral density conducted from the antenna port of a direct sequence transmitter must not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

Configuration: The peak power spectral density measurements were measured with the EUT set to low, mid, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

> The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be 1.5 x 106 ÷ 3 x 103 = 500 seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."

Completed by:



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS | **AMPLITUDE**

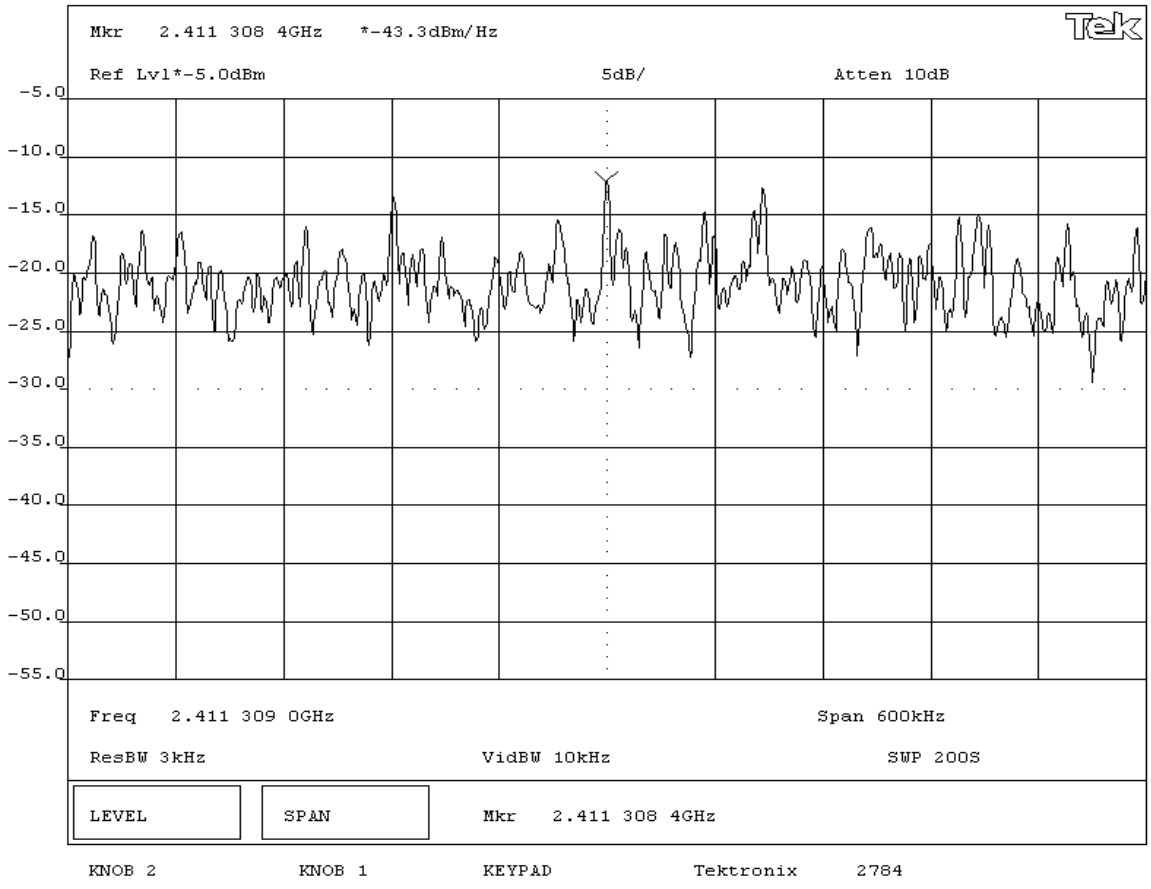
Pass | Power Spectral Density = -8.5 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - Low Channel



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

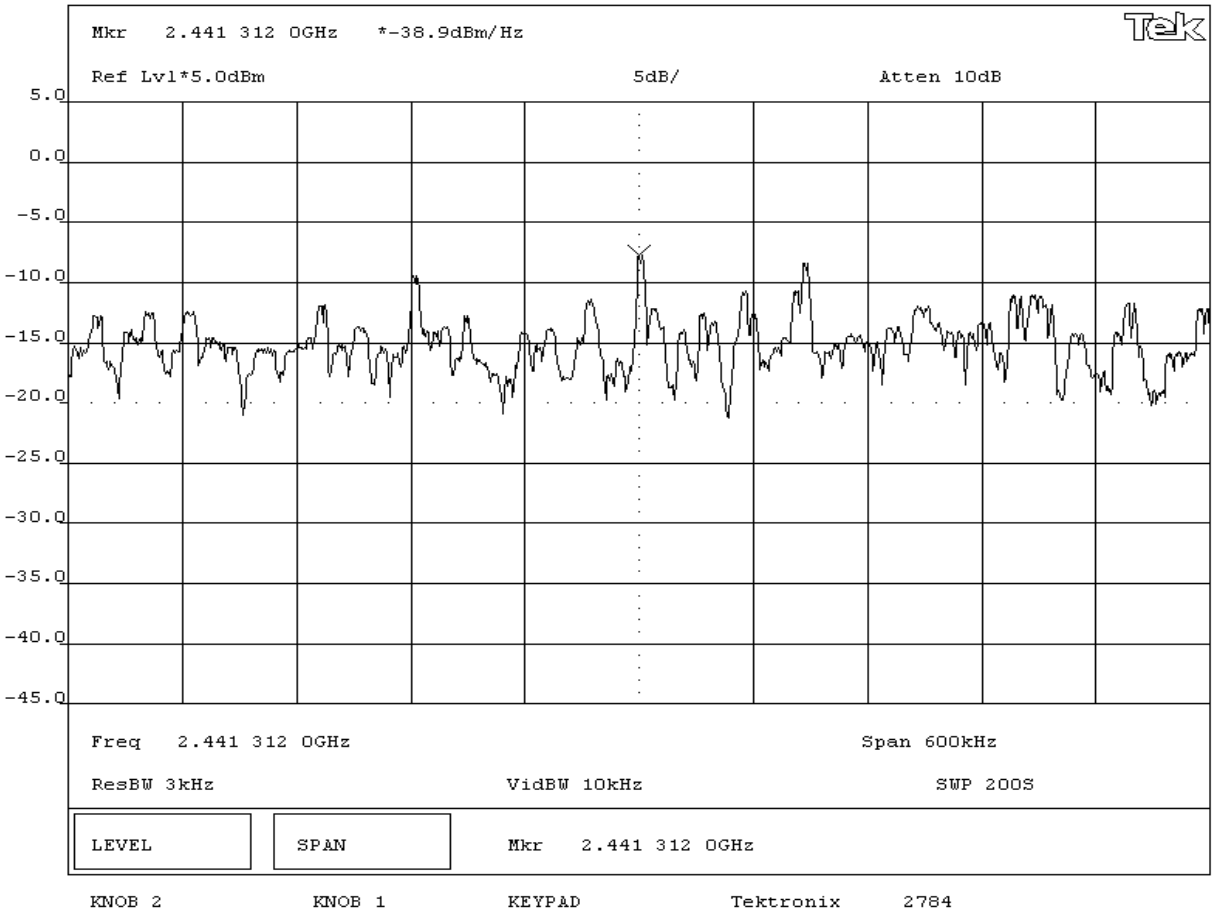
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -4.1 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiemel

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

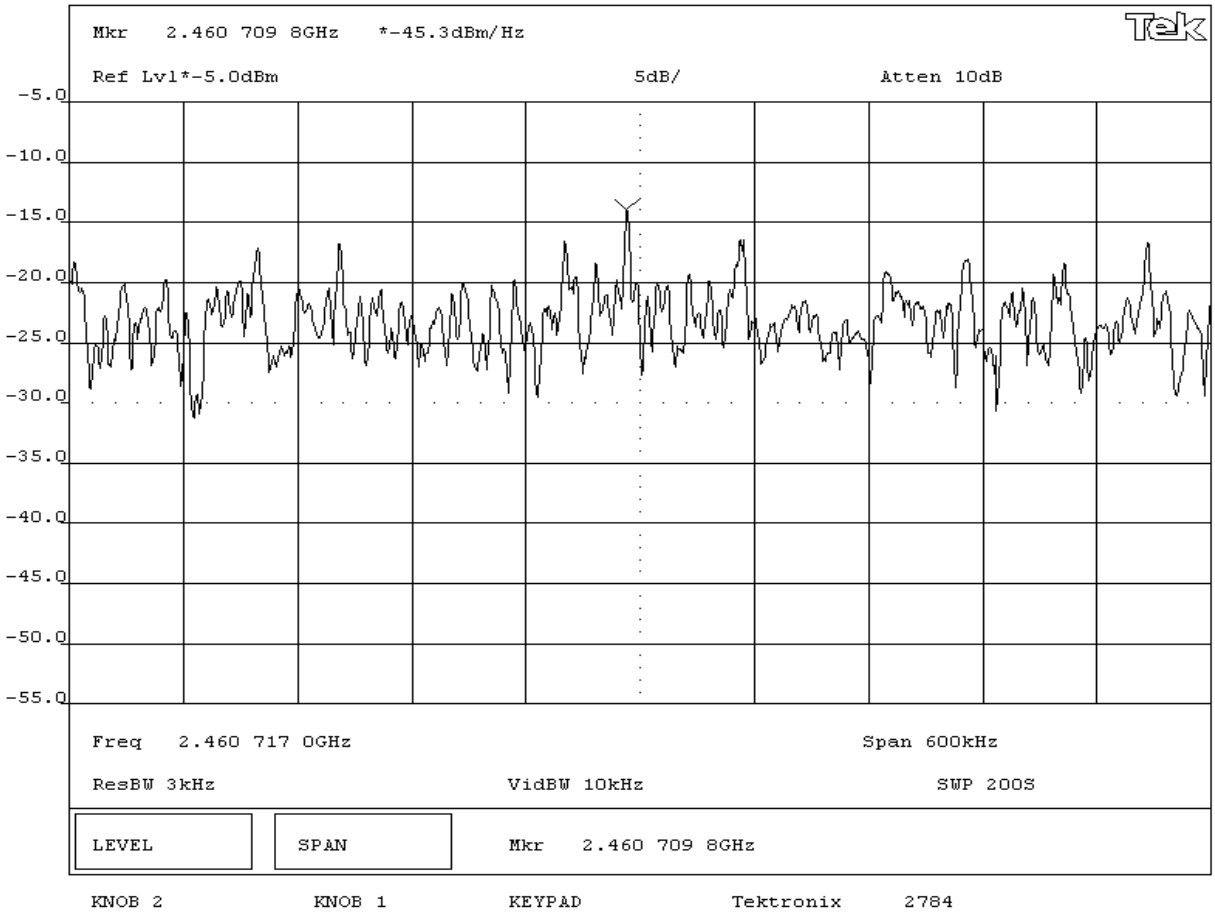
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -10.5 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - High Channel



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS | **AMPLITUDE**

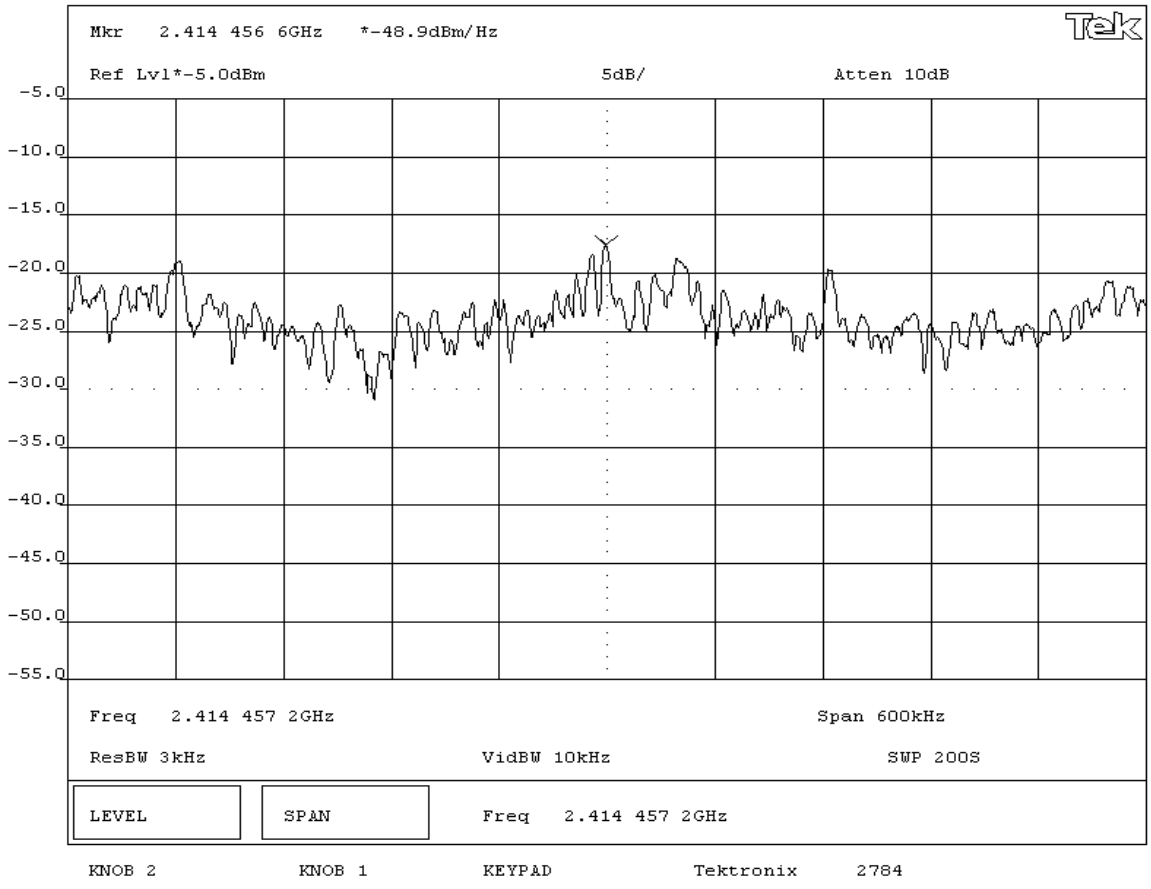
Pass | Power Spectral Density = -14.1 dBm / 3kHz

SIGNATURE

Tested By: A.J. Kiemel

DESCRIPTION OF TEST

Power Spectral Density - Low Channel - 6 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

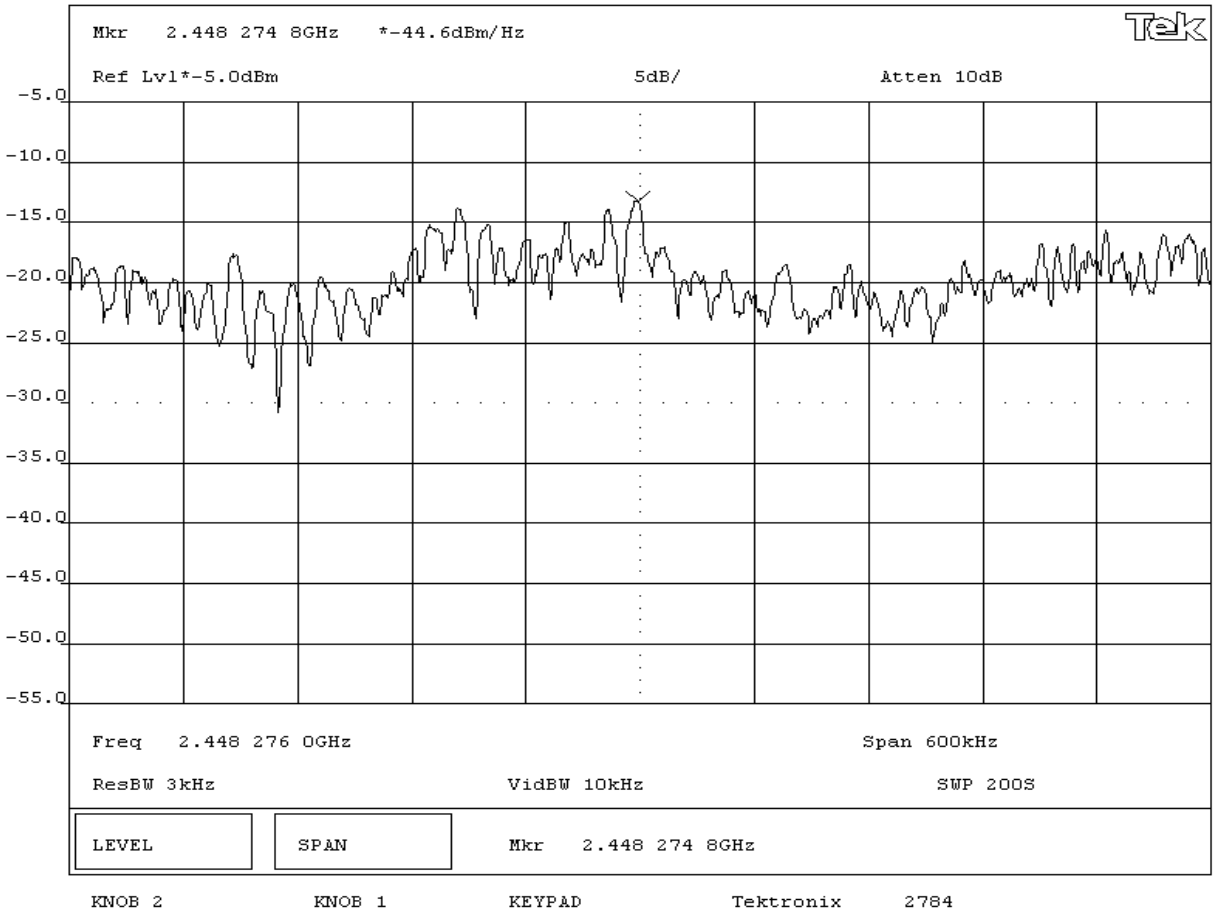
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -9.8 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel - 6 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

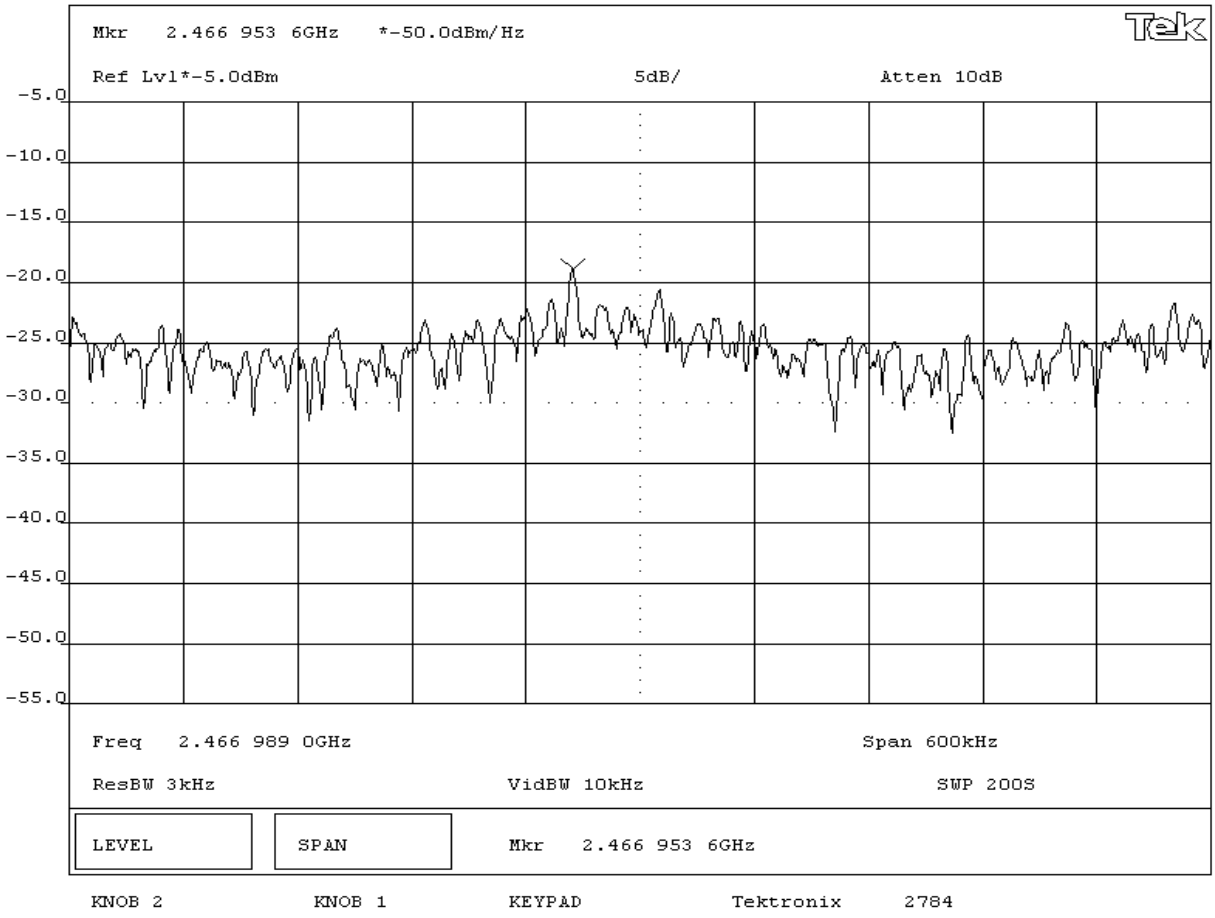
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -15.2 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiemel

DESCRIPTION OF TEST

Power Spectral Density - High Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS | **AMPLITUDE**

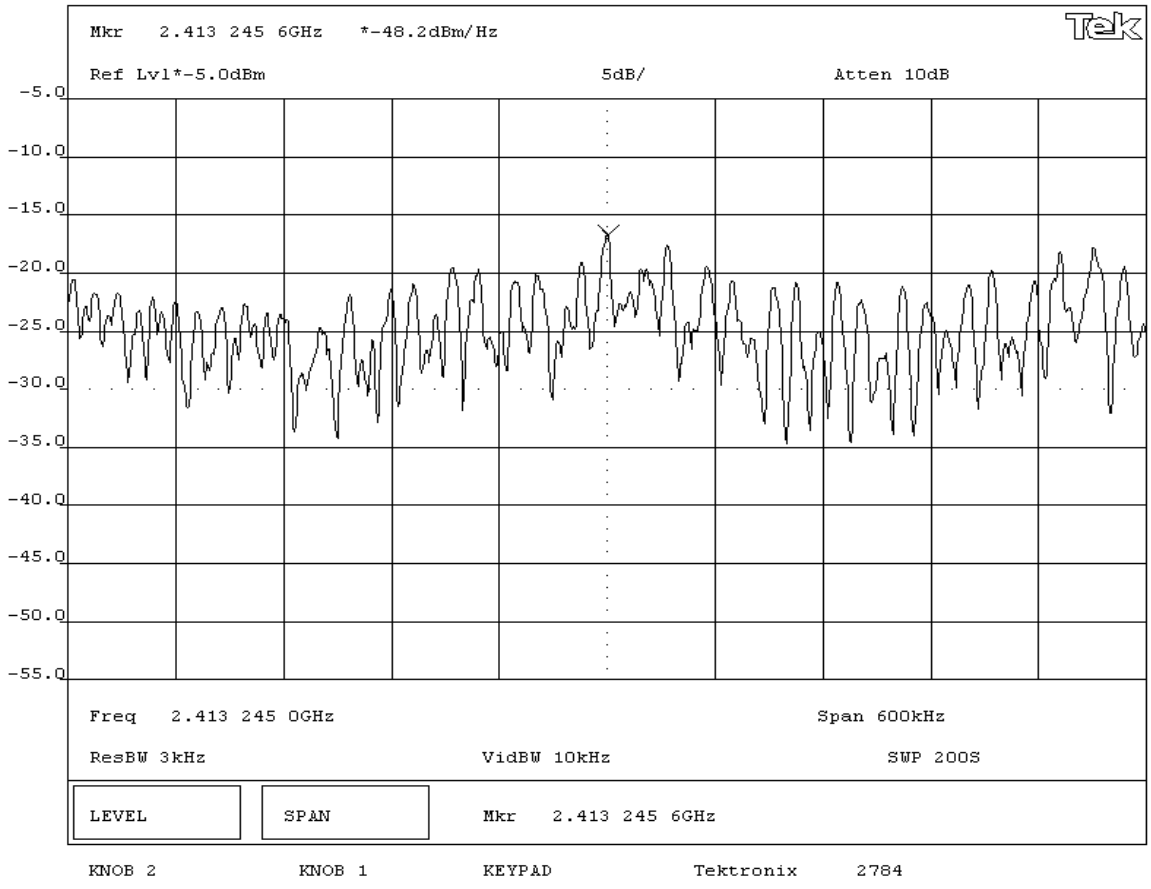
Pass | Power Spectral Density = -13.4 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - Low Channel - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

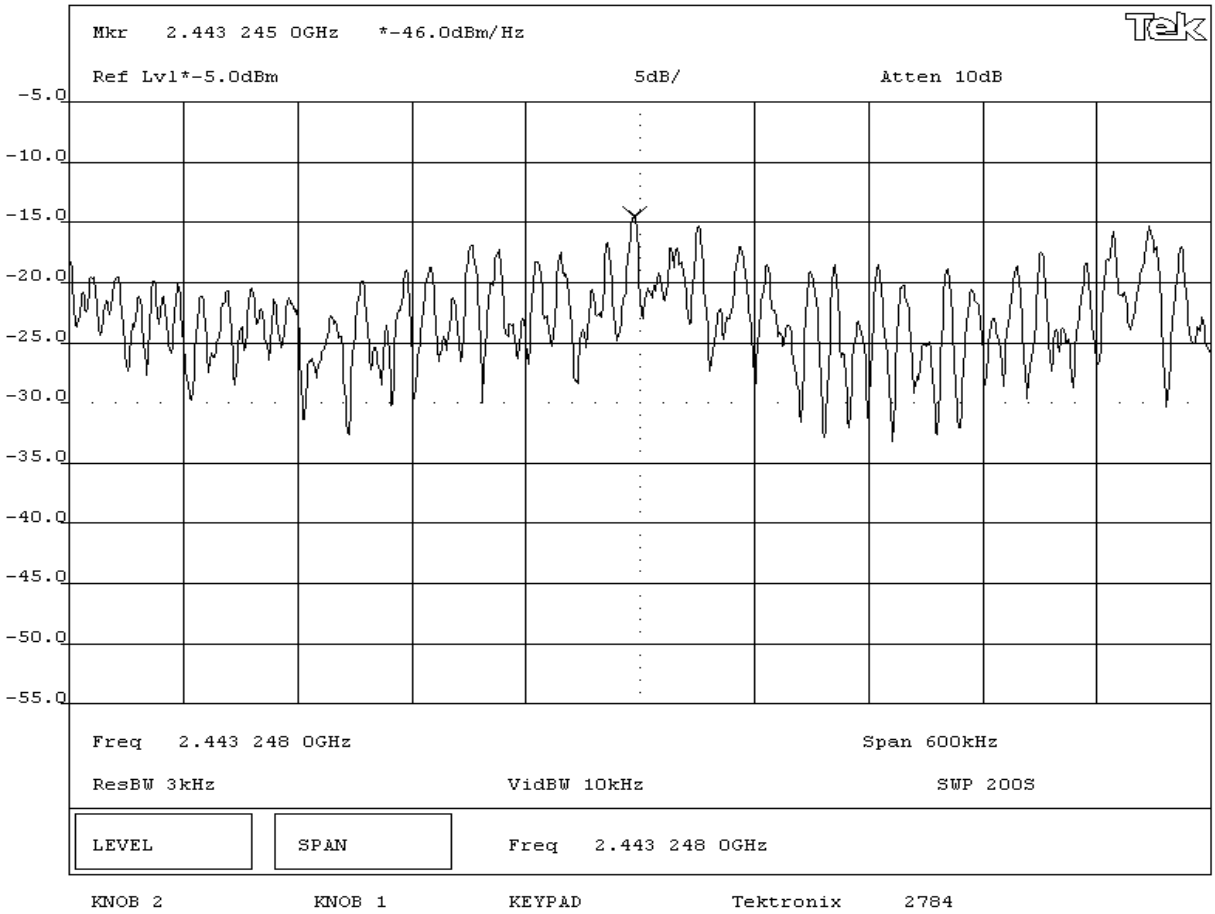
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -11.2 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel - 36 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

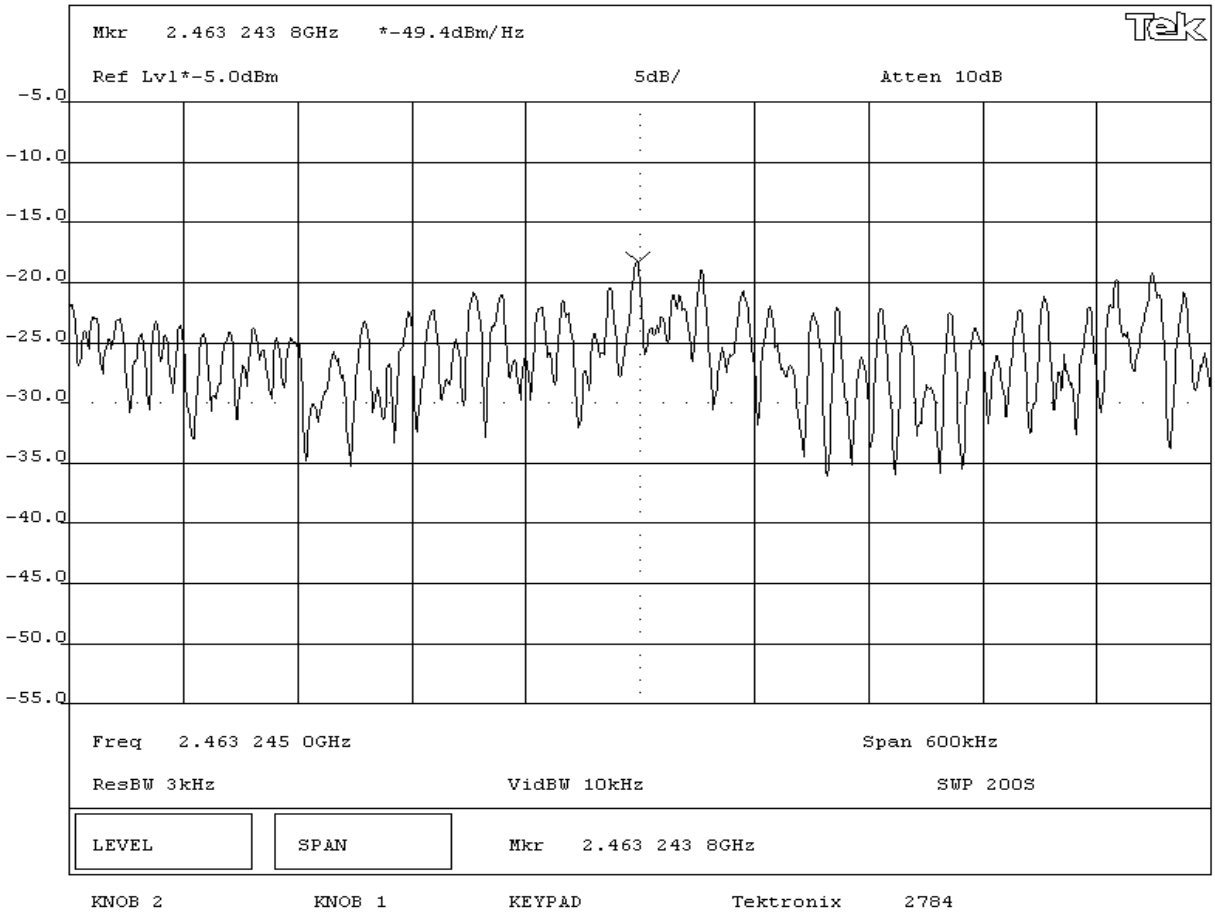
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -14.6 dBm / 3kHz

SIGNATURE

Tested By: A.U.K.

DESCRIPTION OF TEST

Power Spectral Density - High Channel - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS | **AMPLITUDE**

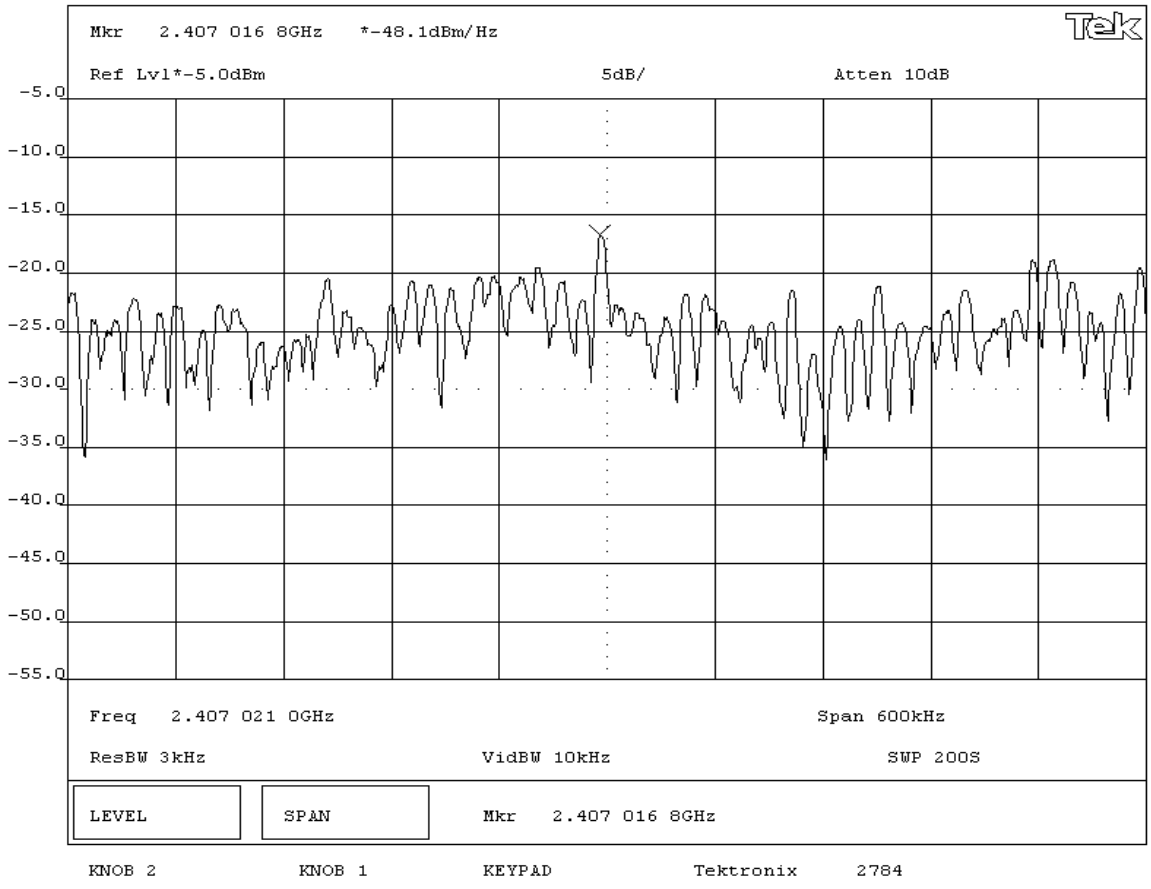
Pass | Power Spectral Density = -13.3 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - Low Channel - 54 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

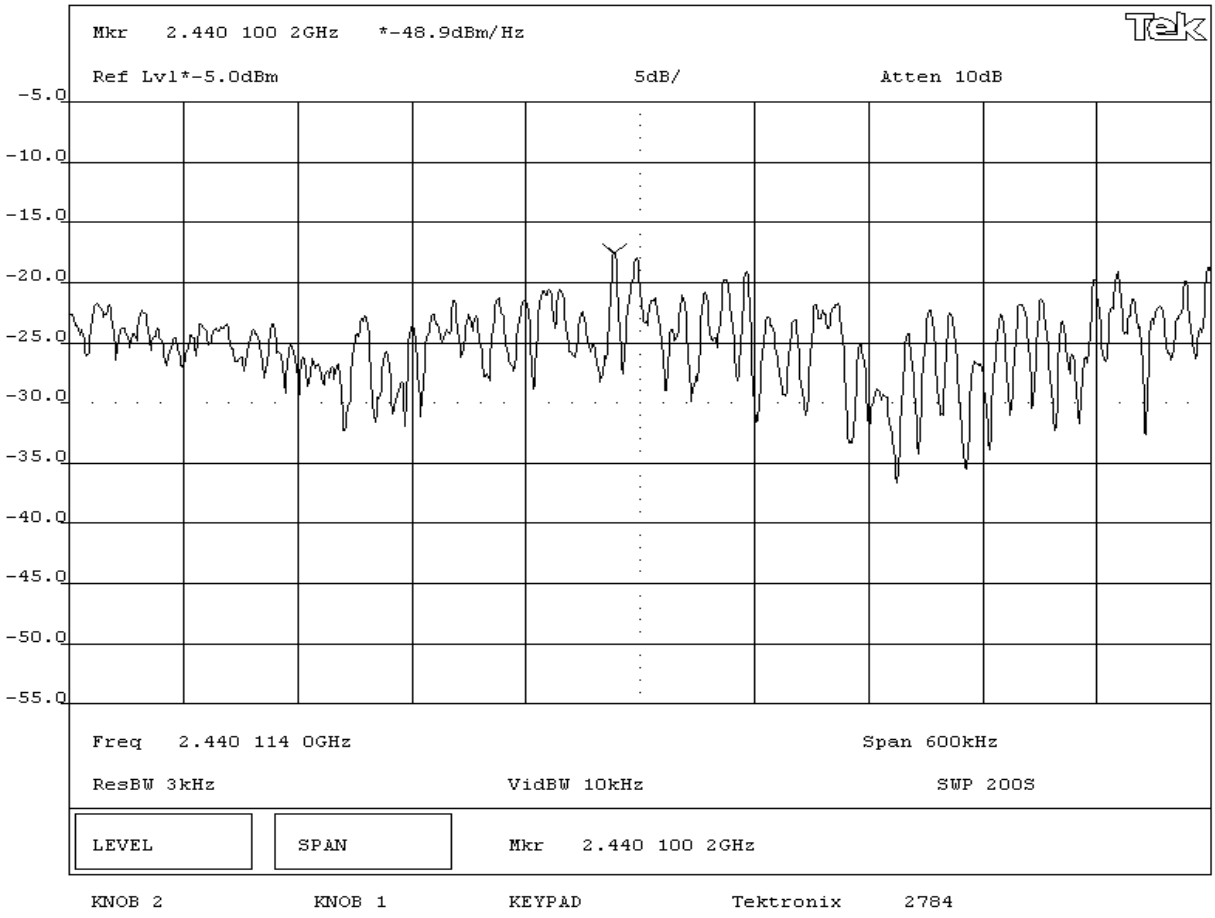
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -14.1 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel - 54 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2			Work Order:	INMC0086
Serial Number:	C1			Date:	06/26/03
Customer:	Intermec Corporation			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

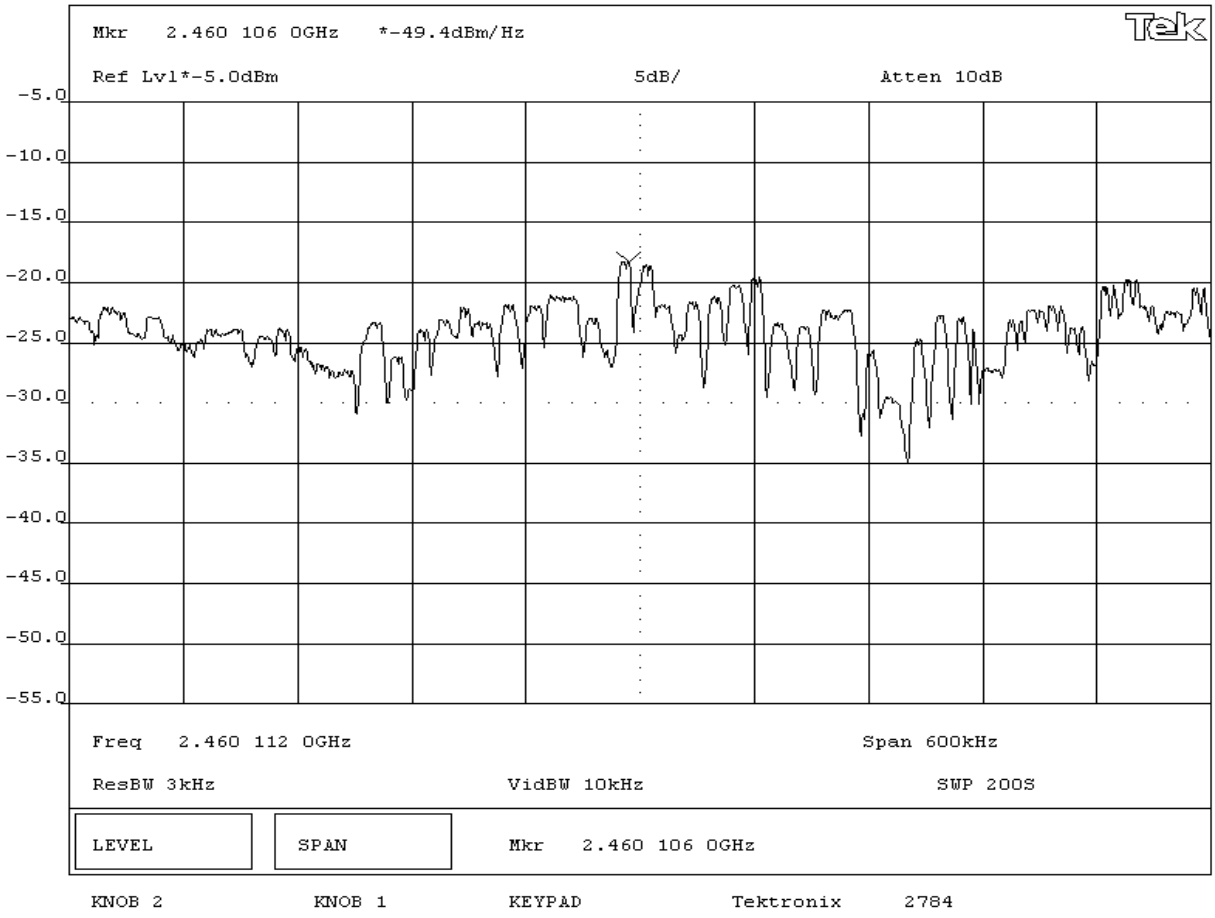
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -14.6 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - High Channel - 54 Mbit



Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
High (Channel 11)
Mid (Channel 7)
Low (Channel 1)

Operating Modes Investigated:
Transmitting

Output Power Investigated:
Maximum

Data Rates Investigated:
11Mbit [802.11(b)]
6Mbit [802.11(g)]

Power Input Settings Investigated:
120 VAC, 60 Hz.

Frequency Range Investigated			
Start Frequency	150 kHz	Stop Frequency	30 MHz

Software\Firmware Applied During Test			
Exercise software	CTxRx	Version	1.4.1
Description			
The software transmitted 802.11(g) and 802.11(b) modulation in low, mid, and high channels.			

EUT and Peripherals

Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Mini-PCI to CardBus Extender	TDK	Rev. 2	ICMB-68FYGC-0M03
802.11(b) and 802.11(g) radio	Intermec Technologies Corporation	802MIG2	N/A
Receive antenna	N/A	Omni 066147	N/A
Laptop	Dell	PPL	0009321C-12800-8B6-0901
Power Adapter 1	Dell	PA-2	85391
Transmit antenna	CushCraft	Yagi 063365	PC2415
Power Adapter 2	CUI Stack	DX-57AAT	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Coax	Yes	0.15	No	802.11(b) and 802.11(g) radio	Receive antenna
Coax adapter cable	Yes	1.4	No	802.11(b) and 802.11(g) radio	Transmit antenna
DC Leads	PA	1.6	Yes	Laptop	Power Adapter 1
AC Power	No	1.6	No	Power Adapter 1	AC Mains
DC Leads	PA	1.8	No	802.11(b) and 802.11(g) radio	Power Adapter 2
AC Power	PA	1.4	PA	Power Adapter 2	AC Mains

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

Measurement Equipment

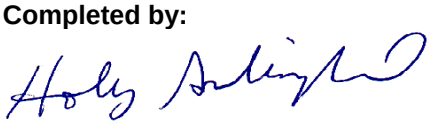
Description	Manufacturer	Model	Identifier	Last Cal	Interval
High Pass Filter	TTE	H97-100k-50-720B	HFC	01/02/2003	12 mo
LISN	Solar	9252-50-R-24-BNC	LIN	12/12/2002	12 mo
LISN	Solar	9252-50-R-24-BNC	LIP	12/12/2002	12 mo
Spectrum Analyzer	Hewlett-Packard	8591A	AAG	01/02/2003	12 mo

Test Description

Requirement: Per 47 15.207(d), if the EUT is connected to the AC power line indirectly, obtaining its power from another device that is connected to the AC power line, then it should be tested to demonstrate compliance with the conducted limits of 15.207.

Configuration: The EUT will be powered from a host device that could be connected to the AC power line. Therefore, measurements were with the EUT powered from a linear DC supply (CUI Stack P/N DX-57AAT) that contains no EMC suppression devices. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-1992.

Completed by:



NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Low (1) Channel, 802.11(b) 11Mbit, Power = 60.

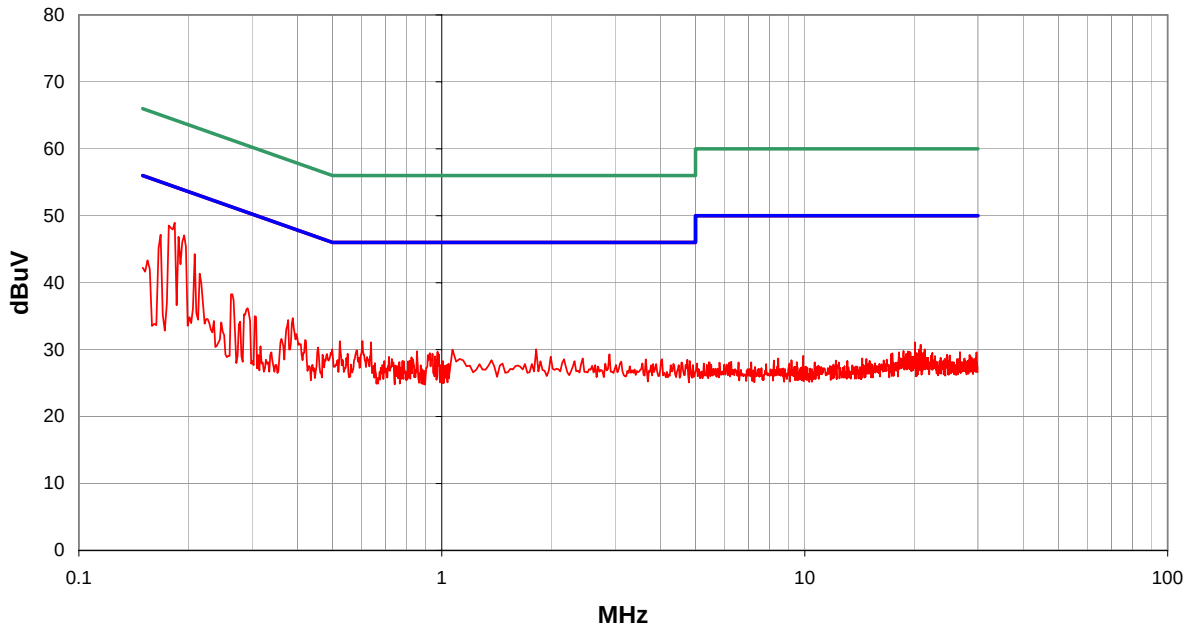
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	1

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.184	28.8			0.0	0.2	20.0				49.0	54.3	-5.4
0.195	26.9			0.0	0.2	20.0				47.1	53.8	-6.8
0.188	26.7			0.0	0.2	20.0				46.9	54.1	-7.3
0.168	27.0			0.0	0.1	20.0				47.1	55.1	-7.9
0.209	24.1			0.0	0.2	20.0				44.3	53.3	-9.0
0.215	21.2			0.0	0.2	20.0				41.4	53.0	-11.6
0.155	23.2			0.0	0.1	20.0				43.3	55.8	-12.4
0.265	18.1			0.0	0.2	20.0				38.3	51.3	-13.0
0.388	14.5			0.0	0.2	20.0				34.7	48.1	-13.4
0.377	14.2			0.0	0.2	20.0				34.4	48.3	-13.9
0.292	16.0			0.0	0.2	20.0				36.2	50.5	-14.3
0.604	11.0			0.0	0.3	20.0				31.3	46.0	-14.7
0.523	11.0			0.0	0.3	20.0				31.3	46.0	-14.7
0.638	10.8			0.0	0.3	20.0				31.1	46.0	-14.9
0.305	14.8			0.0	0.2	20.0				35.0	50.1	-15.1
1.820	9.6			0.0	0.4	20.0				30.0	46.0	-16.0
0.499	9.8			0.0	0.2	20.0				30.0	46.0	-16.0
1.070	9.6			0.0	0.4	20.0				30.0	46.0	-16.0
0.420	11.2			0.0	0.2	20.0				31.4	47.4	-16.0
0.584	9.6			0.0	0.3	20.0				29.9	46.0	-16.1

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Low (1) Channel, 802.11(b) 11Mbit, Power = 60.

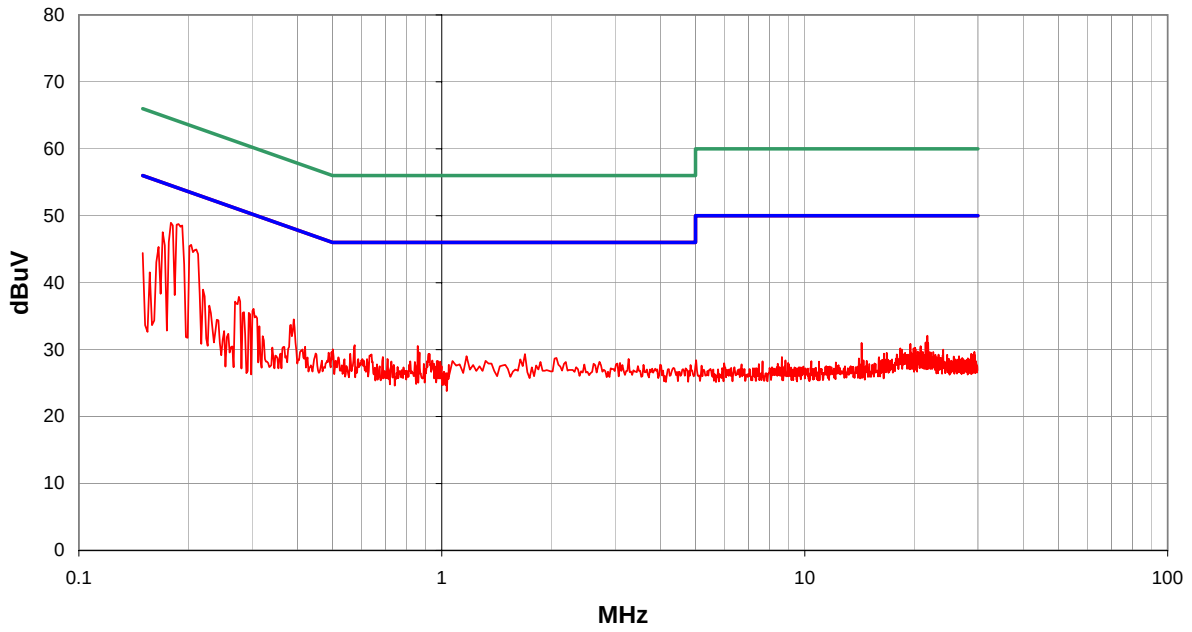
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	2

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.188	28.6			0.0	0.2	20.0				48.8	54.1	-5.4
0.179	28.8			0.0	0.2	20.0				49.0	54.5	-5.6
0.170	27.4			0.0	0.1	20.0				47.5	54.9	-7.4
0.204	25.5			0.0	0.2	20.0				45.7	53.4	-7.8
0.166	25.2			0.0	0.1	20.0				45.3	55.2	-9.8
0.150	24.3			0.0	0.1	20.0				44.4	56.0	-11.6
0.276	17.7			0.0	0.2	20.0				37.9	50.9	-13.1
0.391	14.3			0.0	0.2	20.0				34.5	48.0	-13.5
0.220	18.8			0.0	0.2	20.0				39.0	52.8	-13.9
0.303	15.9			0.0	0.2	20.0				36.1	50.2	-14.1
0.157	21.4			0.0	0.1	20.0				41.5	55.6	-14.1
0.294	15.3			0.0	0.2	20.0				35.5	50.4	-14.9
0.285	15.4			0.0	0.2	20.0				35.6	50.7	-15.1
0.575	10.4			0.0	0.3	20.0				30.7	46.0	-15.3
0.859	10.2			0.0	0.4	20.0				30.6	46.0	-15.4
0.229	16.4			0.0	0.2	20.0				36.6	52.5	-15.9
0.501	9.8			0.0	0.2	20.0				30.0	46.0	-16.0
0.314	13.3			0.0	0.2	20.0				33.5	49.9	-16.4
0.868	9.2			0.0	0.4	20.0				29.6	46.0	-16.4
0.924	9.0			0.0	0.4	20.0				29.4	46.0	-16.6

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Mid (7) Channel, 802.11(b) 11Mbit, Power = 60.

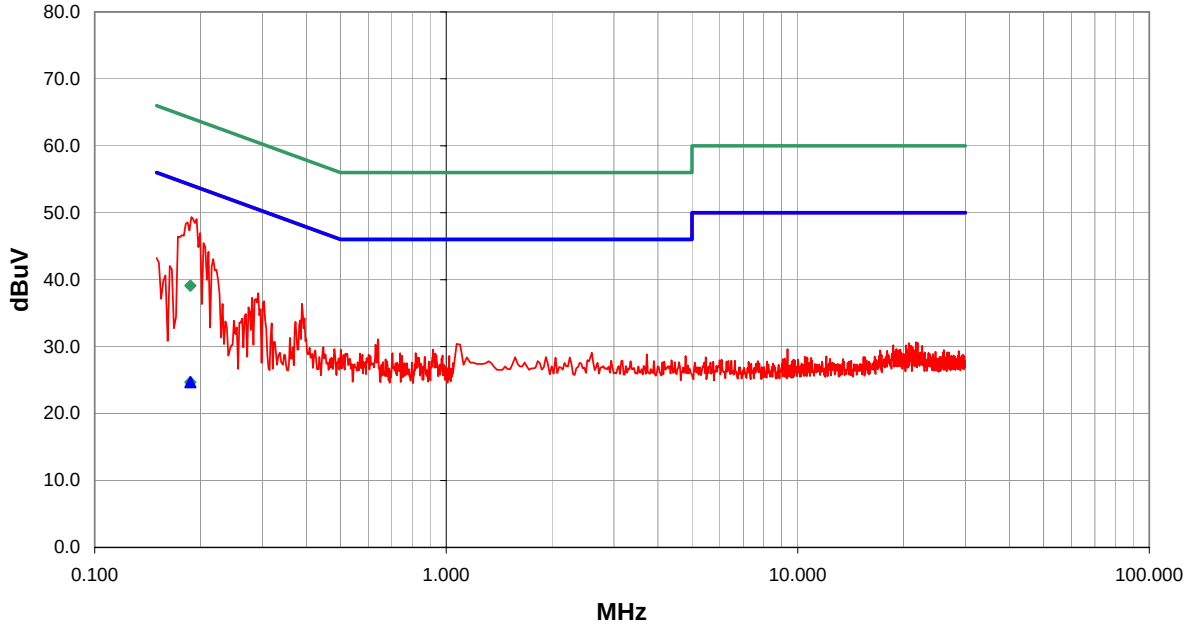
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	3

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.187	4.7			0.0	0.0	20.0		AV		24.7	54.2	-29.5
0.187	19.1			0.0	0.0	20.0		QP		39.1	64.2	-25.1
0.188	29.2			0.0	0.2	20.0				49.4	54.1	-4.8
0.200	26.8			0.0	0.2	20.0				47.0	53.6	-6.7
0.204	25.3			0.0	0.2	20.0				45.5	53.4	-8.0
0.211	24.0			0.0	0.2	20.0				44.2	53.2	-9.0
0.218	22.9			0.0	0.2	20.0				43.1	52.9	-9.9
0.388	16.2			0.0	0.2	20.0				36.4	48.1	-11.7
0.292	17.8			0.0	0.2	20.0				38.0	50.5	-12.5
0.150	23.1			0.0	0.1	20.0				43.2	56.0	-12.8
0.164	21.9			0.0	0.1	20.0				42.0	55.3	-13.2
0.303	16.6			0.0	0.2	20.0				36.8	50.2	-13.4
0.280	17.1			0.0	0.2	20.0				37.3	50.8	-13.5
0.384	13.7			0.0	0.2	20.0				33.9	48.2	-14.3
0.373	13.5			0.0	0.2	20.0				33.7	48.4	-14.7
0.159	20.5			0.0	0.1	20.0				40.6	55.5	-14.9
0.640	10.8			0.0	0.3	20.0				31.1	46.0	-14.9
0.274	15.7			0.0	0.2	20.0				35.9	51.0	-15.1
1.070	10.0			0.0	0.4	20.0				30.4	46.0	-15.6
0.629	10.0			0.0	0.3	20.0				30.3	46.0	-15.7

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Mid (7) Channel, 802.11(b) 11Mbit, Power = 60.

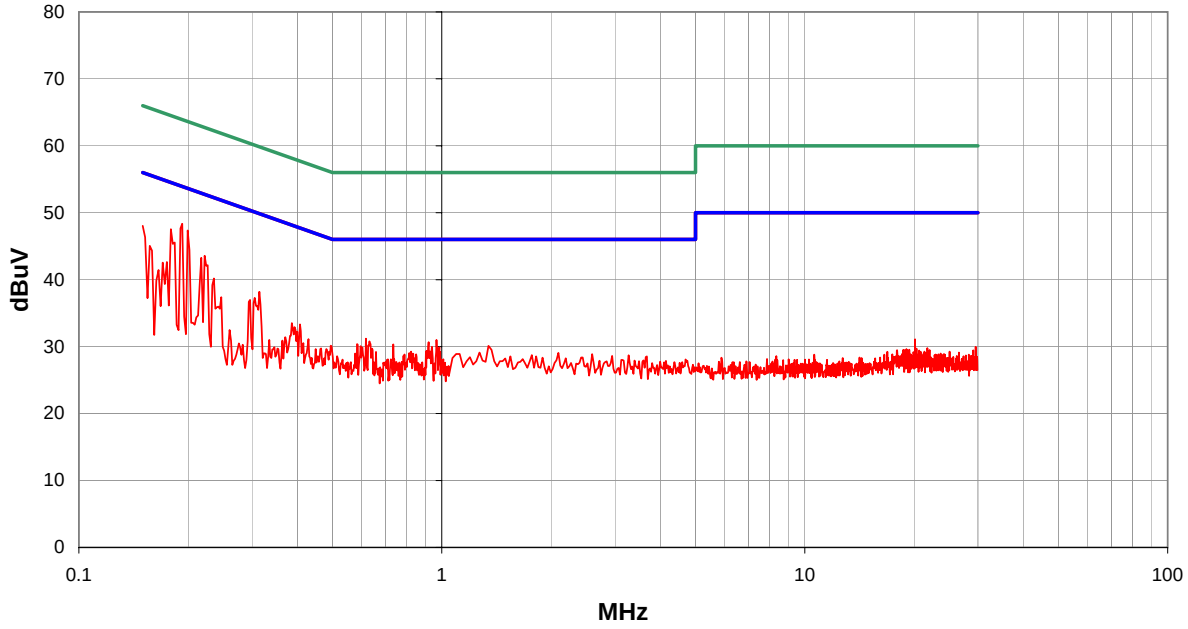
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	4

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.193	28.2			0.0	0.2	20.0				48.4	53.9	-5.6
0.200	27.2			0.0	0.2	20.0				47.4	53.6	-6.3
0.179	27.4			0.0	0.2	20.0				47.6	54.5	-7.0
0.150	27.9			0.0	0.1	20.0				48.0	56.0	-8.0
0.222	23.4			0.0	0.2	20.0				43.6	52.7	-9.2
0.218	23.1			0.0	0.2	20.0				43.3	52.9	-9.7
0.157	24.9			0.0	0.1	20.0				45.0	55.6	-10.6
0.314	18.0			0.0	0.2	20.0				38.2	49.9	-11.7
0.175	22.5			0.0	0.1	20.0				42.6	54.7	-12.1
0.236	20.0			0.0	0.2	20.0				40.2	52.3	-12.1
0.170	22.4			0.0	0.1	20.0				42.5	54.9	-12.4
0.296	16.8			0.0	0.2	20.0				37.0	50.3	-13.4
0.166	21.3			0.0	0.1	20.0				41.4	55.2	-13.7
0.406	13.1			0.0	0.2	20.0				33.3	47.7	-14.4
0.386	13.3			0.0	0.2	20.0				33.5	48.1	-14.6
0.618	10.9			0.0	0.3	20.0				31.2	46.0	-14.8
0.967	10.6			0.0	0.4	20.0				31.0	46.0	-15.0
0.631	10.5			0.0	0.3	20.0				30.8	46.0	-15.2
0.920	10.3			0.0	0.4	20.0				30.7	46.0	-15.3
0.584	10.1			0.0	0.3	20.0				30.4	46.0	-15.6

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

High (11) Channel, 802.11(b) 11Mbit, Power = 60.

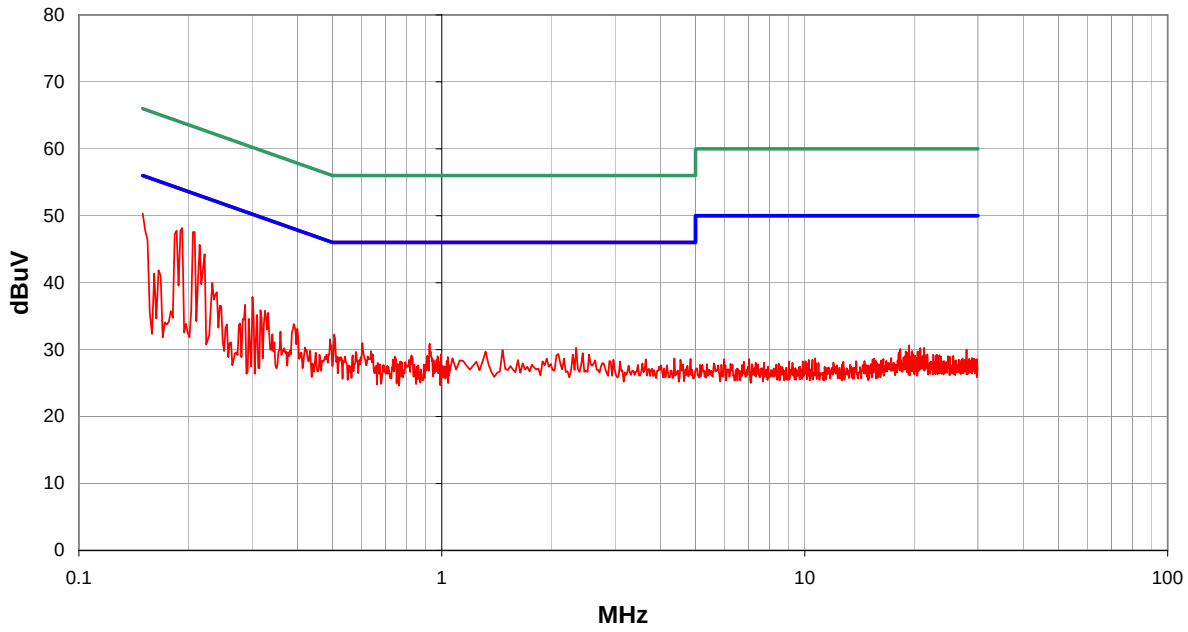
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	5

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.150	30.2			0.0	0.1	20.0				50.3	56.0	-5.7
0.209	27.4			0.0	0.2	20.0				47.6	53.3	-5.7
0.193	28.0			0.0	0.2	20.0				48.2	53.9	-5.8
0.186	27.6			0.0	0.2	20.0				47.8	54.2	-6.5
0.215	25.5			0.0	0.2	20.0				45.7	53.0	-7.3
0.222	24.1			0.0	0.2	20.0				44.3	52.7	-8.5
0.301	17.7			0.0	0.2	20.0				37.9	50.2	-12.3
0.233	19.8			0.0	0.2	20.0				40.0	52.3	-12.4
0.166	21.7			0.0	0.1	20.0				41.8	55.2	-13.3
0.505	12.0			0.0	0.3	20.0				32.3	46.0	-13.7
0.325	15.6			0.0	0.2	20.0				35.8	49.6	-13.8
0.332	15.3			0.0	0.2	20.0				35.5	49.4	-13.9
0.316	15.7			0.0	0.2	20.0				35.9	49.8	-13.9
0.287	16.5			0.0	0.2	20.0				36.7	50.6	-13.9
0.161	21.2			0.0	0.1	20.0				41.3	55.4	-14.1
0.391	13.6			0.0	0.2	20.0				33.8	48.0	-14.2
0.492	11.3			0.0	0.2	20.0				31.5	46.1	-14.6
0.400	12.9			0.0	0.2	20.0				33.1	47.9	-14.7
0.310	15.0			0.0	0.2	20.0				35.2	50.0	-14.8
0.604	10.7			0.0	0.3	20.0				31.0	46.0	-15.0

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

High (11) Channel, 802.11(b) 11Mbit, Power = 60.

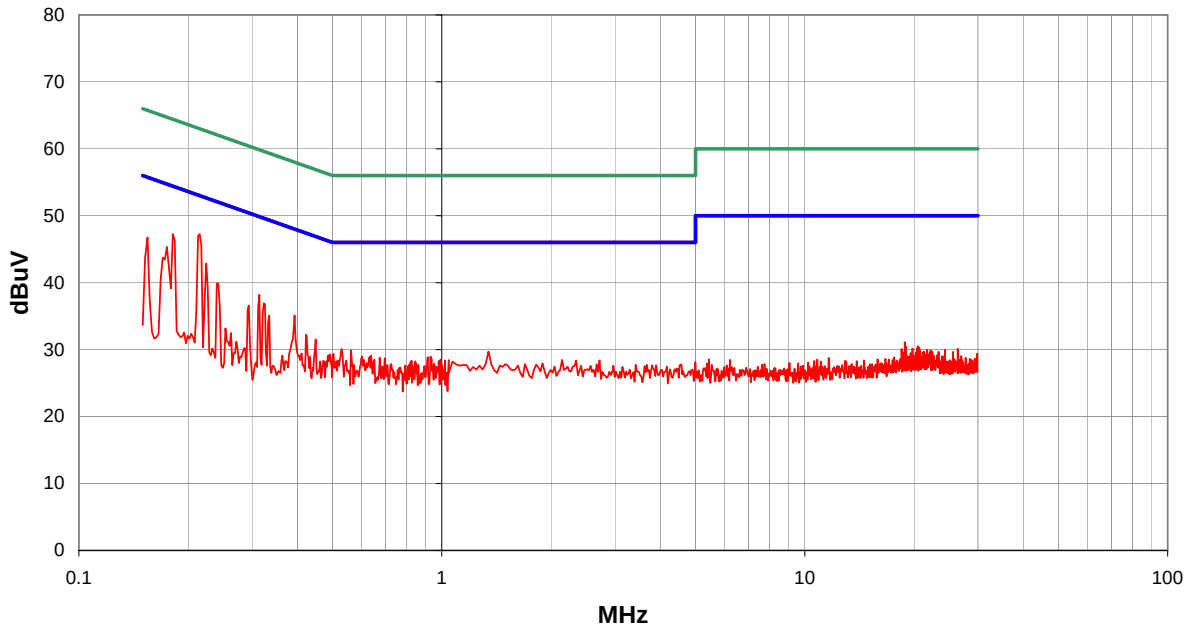
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	6

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.215	27.1			0.0	0.2	20.0				47.3	53.0	-5.7
0.182	27.1			0.0	0.2	20.0				47.3	54.4	-7.2
0.155	26.6			0.0	0.1	20.0				46.7	55.8	-9.0
0.175	25.2			0.0	0.1	20.0				45.3	54.7	-9.4
0.224	22.7			0.0	0.2	20.0				42.9	52.7	-9.8
0.314	18.0			0.0	0.2	20.0				38.2	49.9	-11.7
0.242	19.7			0.0	0.2	20.0				39.9	52.0	-12.1
0.323	16.7			0.0	0.2	20.0				36.9	49.6	-12.7
0.393	14.9			0.0	0.2	20.0				35.1	48.0	-12.9
0.294	16.4			0.0	0.2	20.0				36.6	50.4	-13.8
0.334	14.9			0.0	0.2	20.0				35.1	49.3	-14.2
0.422	12.0			0.0	0.2	20.0				32.2	47.4	-15.2
0.449	11.3			0.0	0.2	20.0				31.5	46.9	-15.4
0.530	9.8			0.0	0.3	20.0				30.1	46.0	-15.9
0.562	9.6			0.0	0.3	20.0				29.9	46.0	-16.1
1.345	9.3			0.0	0.4	20.0				29.7	46.0	-16.3
0.503	9.1			0.0	0.2	20.0				29.3	46.0	-16.7
0.492	9.0			0.0	0.2	20.0				29.2	46.1	-16.9
0.638	8.8			0.0	0.3	20.0				29.1	46.0	-16.9
0.602	8.7			0.0	0.3	20.0				29.0	46.0	-17.0

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Low (1) Channel, 802.11(g) 6Mbit, Power = 60.

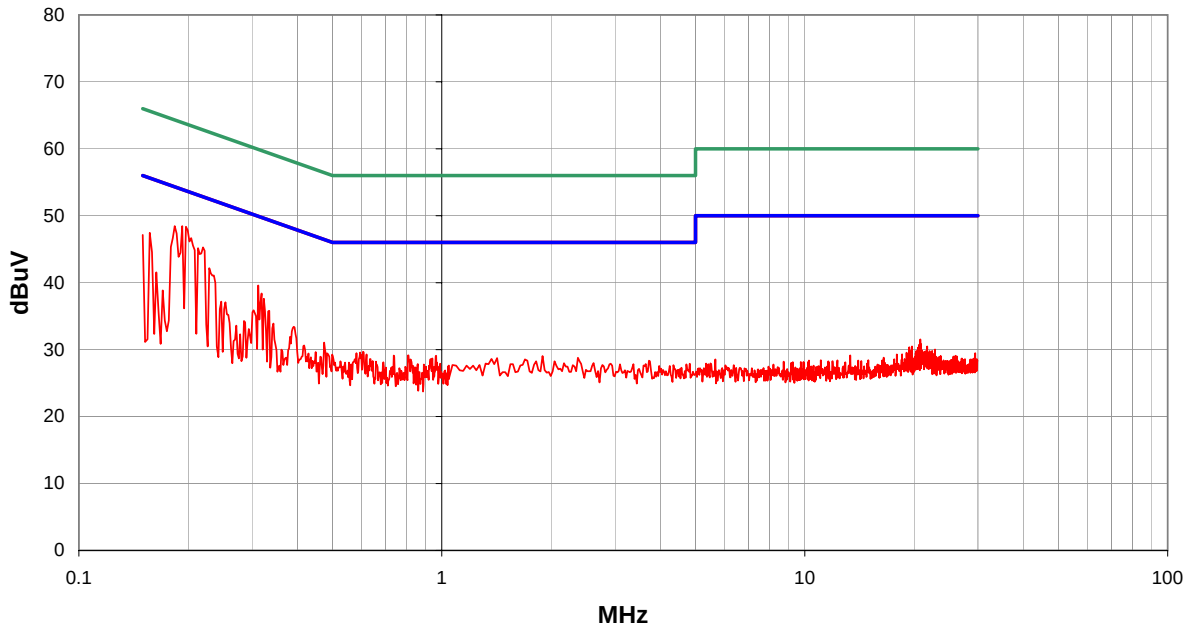
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	7

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.197	28.2			0.0	0.2	20.0				48.4	53.7	-5.4
0.193	28.3			0.0	0.2	20.0				48.5	53.9	-5.5
0.184	28.3			0.0	0.2	20.0				48.5	54.3	-5.9
0.220	25.1			0.0	0.2	20.0				45.3	52.8	-7.6
0.157	27.3			0.0	0.1	20.0				47.4	55.6	-8.2
0.150	27.0			0.0	0.1	20.0				47.1	56.0	-8.9
0.312	19.4			0.0	0.2	20.0				39.6	49.9	-10.3
0.229	22.0			0.0	0.2	20.0				42.2	52.5	-10.3
0.319	18.2			0.0	0.2	20.0				38.4	49.7	-11.3
0.323	17.4			0.0	0.2	20.0				37.6	49.6	-12.0
0.334	15.6			0.0	0.2	20.0				35.8	49.3	-13.5
0.164	21.4			0.0	0.1	20.0				41.5	55.3	-13.7
0.303	15.7			0.0	0.2	20.0				35.9	50.2	-14.3
0.254	16.9			0.0	0.2	20.0				37.1	51.6	-14.6
0.391	13.2			0.0	0.2	20.0				33.4	48.0	-14.6
0.247	17.0			0.0	0.2	20.0				37.2	51.9	-14.7
0.343	13.7			0.0	0.2	20.0				33.9	49.1	-15.2
0.474	10.8			0.0	0.2	20.0				31.0	46.4	-15.4
0.170	18.7			0.0	0.1	20.0				38.8	54.9	-16.1
0.607	9.4			0.0	0.3	20.0				29.7	46.0	-16.3

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Low (1) Channel, 802.11(g) 6Mbit, Power = 60.

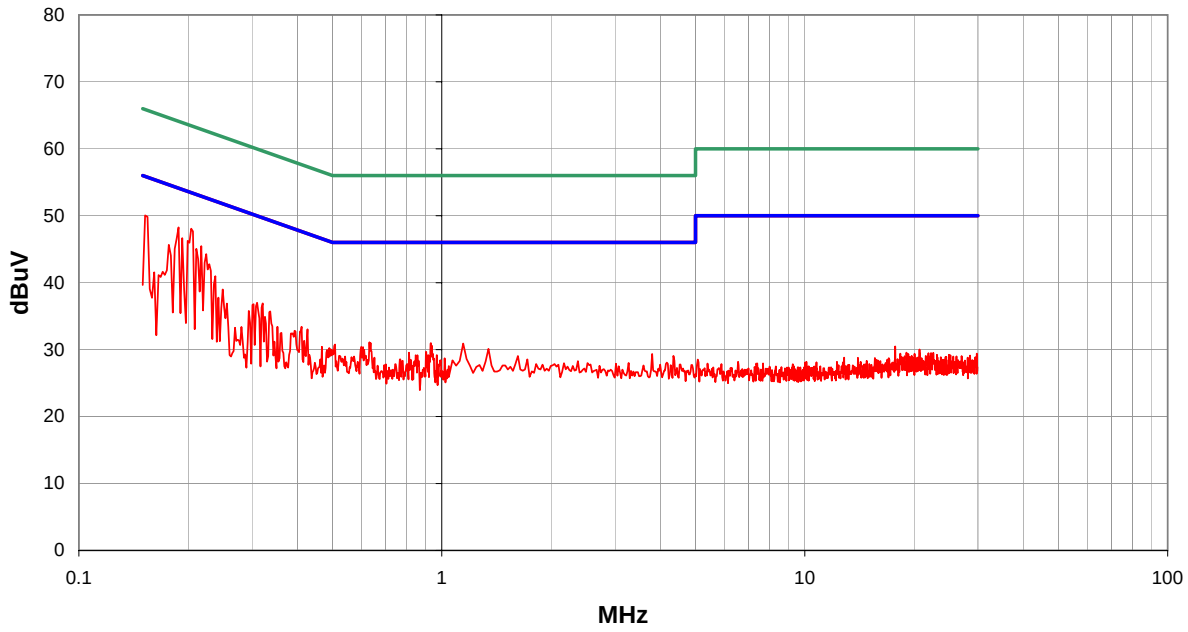
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	8

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.204	27.9			0.0	0.2	20.0				48.1	53.4	-5.4
0.152	29.9			0.0	0.1	20.0				50.0	55.9	-5.8
0.188	28.1			0.0	0.2	20.0				48.3	54.1	-5.9
0.193	26.5			0.0	0.2	20.0				46.7	53.9	-7.3
0.218	25.3			0.0	0.2	20.0				45.5	52.9	-7.5
0.211	24.9			0.0	0.2	20.0				45.1	53.2	-8.1
0.224	24.1			0.0	0.2	20.0				44.3	52.7	-8.4
0.177	25.5			0.0	0.2	20.0				45.7	54.6	-9.0
0.238	20.8			0.0	0.2	20.0				41.0	52.2	-11.2
0.321	16.7			0.0	0.2	20.0				36.9	49.7	-12.8
0.249	18.8			0.0	0.2	20.0				39.0	51.8	-12.8
0.310	16.8			0.0	0.2	20.0				37.0	50.0	-13.0
0.303	16.6			0.0	0.2	20.0				36.8	50.2	-13.4
0.337	15.5			0.0	0.2	20.0				35.7	49.3	-13.6
0.161	21.4			0.0	0.1	20.0				41.5	55.4	-13.9
0.411	13.2			0.0	0.2	20.0				33.4	47.6	-14.2
0.242	17.6			0.0	0.2	20.0				37.8	52.0	-14.2
0.427	12.8			0.0	0.2	20.0				33.0	47.3	-14.3
0.294	15.6			0.0	0.2	20.0				35.8	50.4	-14.6
0.325	14.7			0.0	0.2	20.0				34.9	49.6	-14.7

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Mid (7) Channel, 802.11(g) 6Mbit, Power = 60.

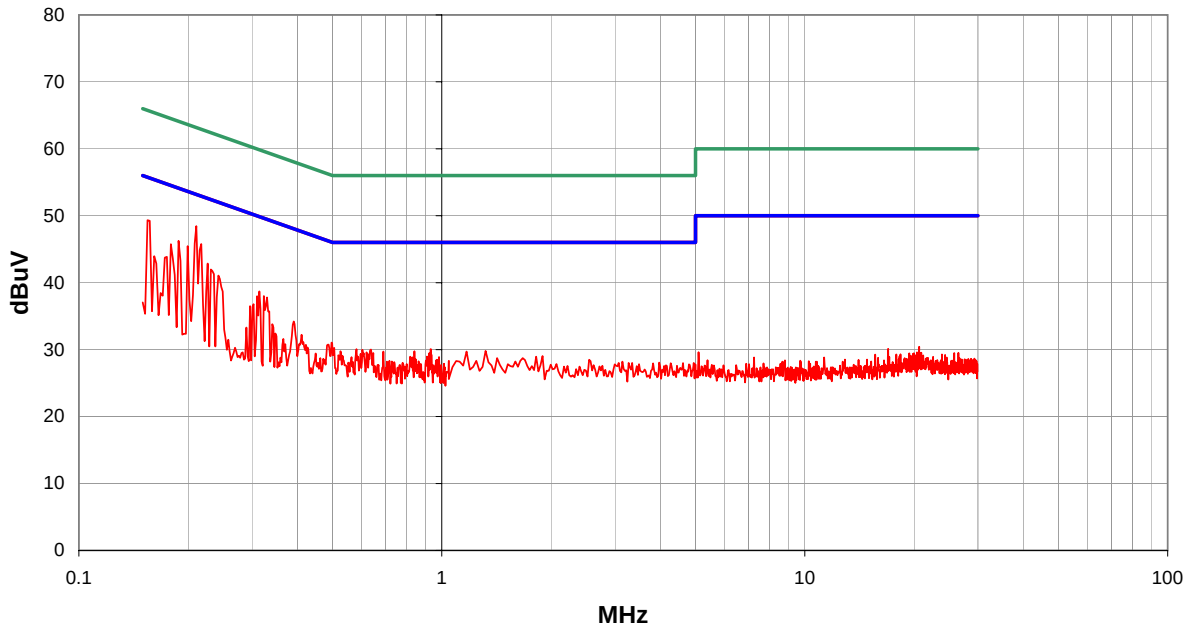
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	9

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.211	28.3			0.0	0.2	20.0				48.5	53.2	-4.7
0.155	29.2			0.0	0.1	20.0				49.3	55.8	-6.4
0.218	25.6			0.0	0.2	20.0				45.8	52.9	-7.2
0.188	26.1			0.0	0.2	20.0				46.3	54.1	-7.9
0.200	25.3			0.0	0.2	20.0				45.5	53.6	-8.2
0.179	25.6			0.0	0.2	20.0				45.8	54.5	-8.8
0.227	22.7			0.0	0.2	20.0				42.9	52.6	-9.7
0.231	21.8			0.0	0.2	20.0				42.0	52.4	-10.4
0.175	23.7			0.0	0.1	20.0				43.8	54.7	-10.9
0.242	20.9			0.0	0.2	20.0				41.1	52.0	-10.9
0.314	18.5			0.0	0.2	20.0				38.7	49.9	-11.2
0.161	23.8			0.0	0.1	20.0				43.9	55.4	-11.5
0.323	17.8			0.0	0.2	20.0				38.0	49.6	-11.6
0.310	17.8			0.0	0.2	20.0				38.0	50.0	-12.0
0.303	16.6			0.0	0.2	20.0				36.8	50.2	-13.4
0.391	14.0			0.0	0.2	20.0				34.2	48.0	-13.8
0.296	16.3			0.0	0.2	20.0				36.5	50.3	-13.9
0.496	10.8			0.0	0.2	20.0				31.0	46.1	-15.0
0.341	13.6			0.0	0.2	20.0				33.8	49.2	-15.4
0.411	12.0			0.0	0.2	20.0				32.2	47.6	-15.4

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

Mid (7) Channel, 802.11(g) 6Mbit, Power = 60.

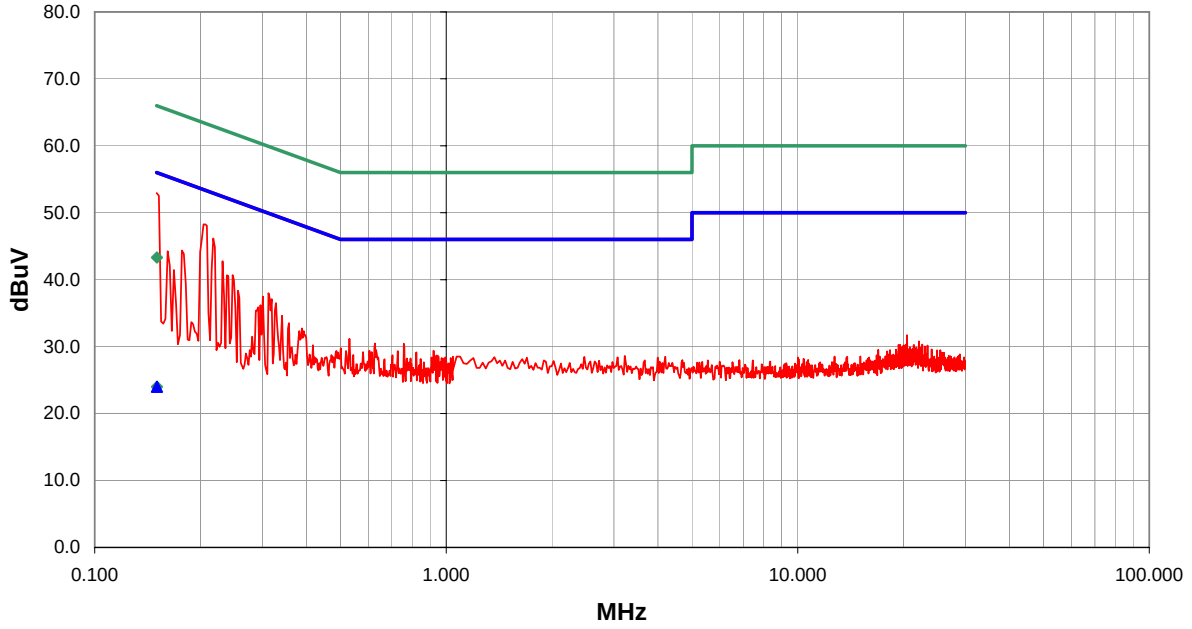
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	10

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.150	4.0			0.0	0.0	20.0		AV		24.0	56.0	-32.0
0.150	23.3			0.0	0.0	20.0		QP		43.3	66.0	-22.7
0.150	32.8			0.0	0.1	20.0				52.9	56.0	-3.1
0.206	28.1			0.0	0.2	20.0				48.3	53.4	-5.1
0.218	26.0			0.0	0.2	20.0				46.2	52.9	-6.8
0.231	22.6			0.0	0.2	20.0				42.8	52.4	-9.6
0.177	24.2			0.0	0.2	20.0				44.4	54.6	-10.3
0.161	24.1			0.0	0.1	20.0				44.2	55.4	-11.2
0.247	20.5			0.0	0.2	20.0				40.7	51.9	-11.2
0.238	20.5			0.0	0.2	20.0				40.7	52.2	-11.5
0.312	17.8			0.0	0.2	20.0				38.0	49.9	-11.9
0.301	17.3			0.0	0.2	20.0				37.5	50.2	-12.7
0.328	16.3			0.0	0.2	20.0				36.5	49.5	-13.0
0.256	18.2			0.0	0.2	20.0				38.4	51.6	-13.2
0.168	21.3			0.0	0.1	20.0				41.4	55.1	-13.6
0.296	16.0			0.0	0.2	20.0				36.2	50.3	-14.2
0.341	14.4			0.0	0.2	20.0				34.6	49.2	-14.6
0.292	15.7			0.0	0.2	20.0				35.9	50.5	-14.6
0.530	10.9			0.0	0.3	20.0				31.2	46.0	-14.8
0.357	13.3			0.0	0.2	20.0				33.5	48.8	-15.3

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

High (11) Channel, 802.11(g) 6Mbit, Power = 60.

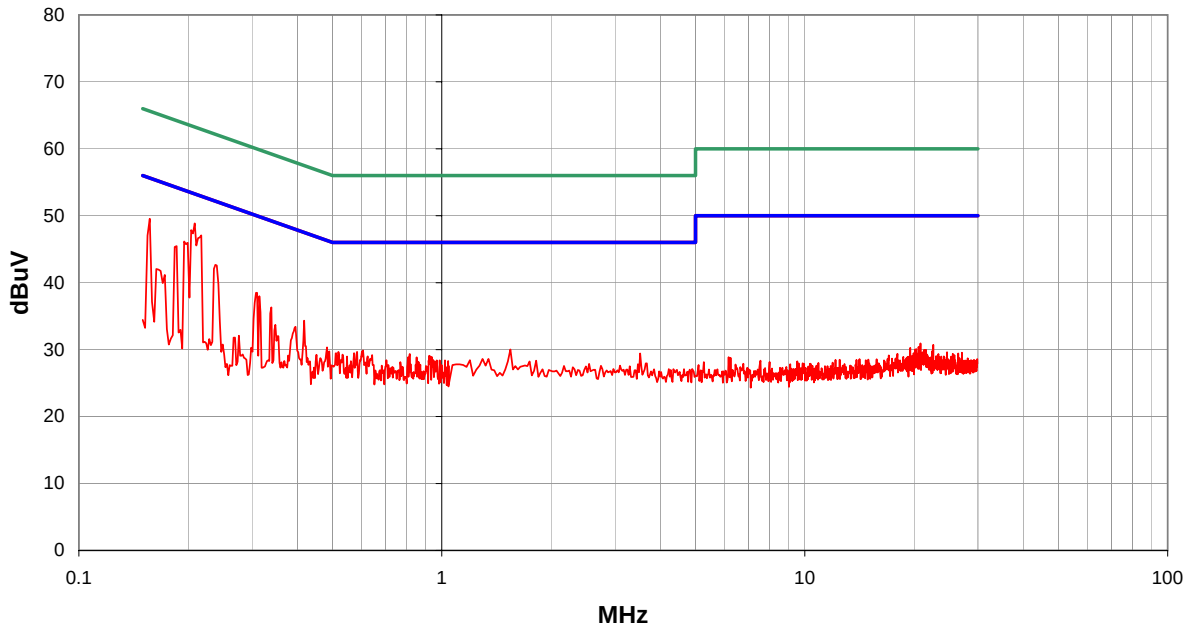
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	11

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.209	28.7			0.0	0.2	20.0				48.9	53.3	-4.4
0.157	29.4			0.0	0.1	20.0				49.5	55.6	-6.1
0.195	26.0			0.0	0.2	20.0				46.2	53.8	-7.7
0.186	25.3			0.0	0.2	20.0				45.5	54.2	-8.8
0.238	22.5			0.0	0.2	20.0				42.7	52.2	-9.5
0.310	18.3			0.0	0.2	20.0				38.5	50.0	-11.5
0.314	17.8			0.0	0.2	20.0				38.0	49.9	-11.9
0.339	16.1			0.0	0.2	20.0				36.3	49.2	-12.9
0.418	14.1			0.0	0.2	20.0				34.3	47.5	-13.2
0.164	21.9			0.0	0.1	20.0				42.0	55.3	-13.2
0.395	13.2			0.0	0.2	20.0				33.4	48.0	-14.5
0.348	13.5			0.0	0.2	20.0				33.7	49.0	-15.3
0.483	10.1			0.0	0.2	20.0				30.3	46.3	-15.9
1.545	9.6			0.0	0.4	20.0				30.0	46.0	-16.0
0.607	9.6			0.0	0.3	20.0				29.9	46.0	-16.1
0.584	9.4			0.0	0.3	20.0				29.7	46.0	-16.3
0.519	9.4			0.0	0.3	20.0				29.7	46.0	-16.3
0.490	9.5			0.0	0.2	20.0				29.7	46.2	-16.4
0.573	9.2			0.0	0.3	20.0				29.5	46.0	-16.5
3.521	8.9			0.0	0.5	20.0				29.4	46.0	-16.6

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	inmc0086
Serial Number:	none			Date:	07/17/03
Customer:	Intermec Technologies Corporation			Temperature:	75
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	30.06
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	1997
Method:	ANSI C63.4	Year:	1997

SAMPLE CALCULATIONS

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

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

COMMENTS

063365 Yagi

EUT OPERATING MODES

High (11) Channel, 802.11(g) 6Mbit, Power = 60.

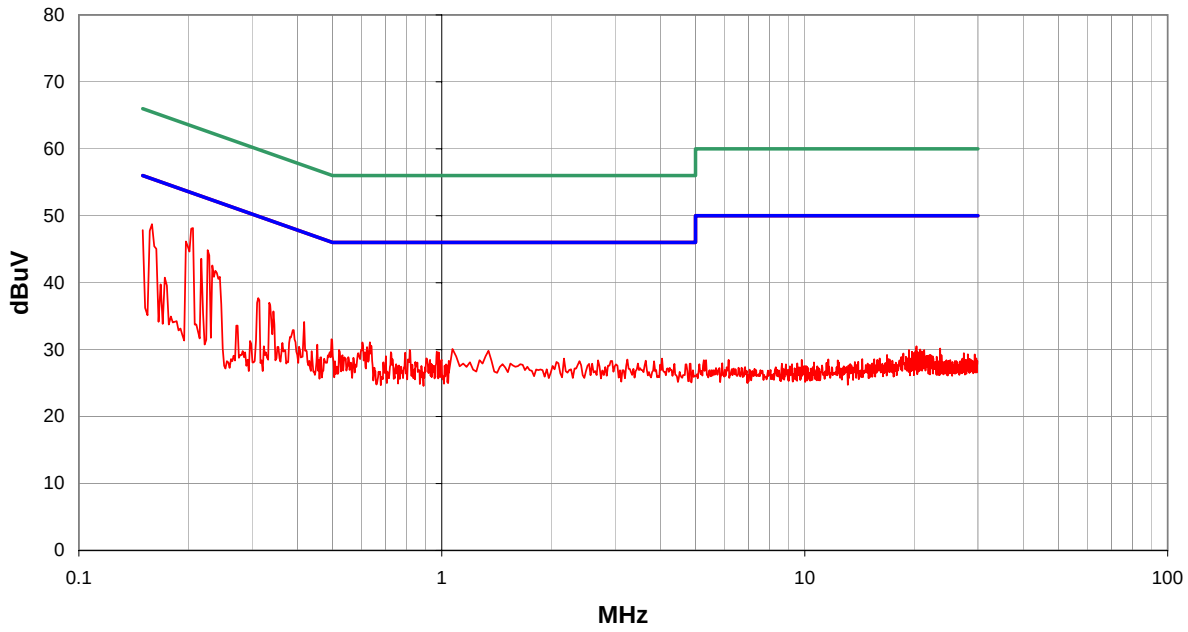
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	12

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.206	28.0			0.0	0.2	20.0				48.2	53.4	-5.2
0.159	28.6			0.0	0.1	20.0				48.7	55.5	-6.8
0.227	24.7			0.0	0.2	20.0				44.9	52.6	-7.7
0.150	27.7			0.0	0.1	20.0				47.8	56.0	-8.2
0.218	23.4			0.0	0.2	20.0				43.6	52.9	-9.4
0.233	22.4			0.0	0.2	20.0				42.6	52.3	-9.8
0.312	17.5			0.0	0.2	20.0				37.7	49.9	-12.2
0.334	16.8			0.0	0.2	20.0				37.0	49.3	-12.3
0.418	13.9			0.0	0.2	20.0				34.1	47.5	-13.4
0.343	15.5			0.0	0.2	20.0				35.7	49.1	-13.4
0.173	20.6			0.0	0.1	20.0				40.7	54.8	-14.1
0.496	11.3			0.0	0.2	20.0				31.5	46.1	-14.5
0.634	10.8			0.0	0.3	20.0				31.1	46.0	-14.9
0.604	10.8			0.0	0.3	20.0				31.1	46.0	-14.9
0.391	12.7			0.0	0.2	20.0				32.9	48.0	-15.1
0.168	19.6			0.0	0.1	20.0				39.7	55.1	-15.3
0.622	10.1			0.0	0.3	20.0				30.4	46.0	-15.6
1.070	9.7			0.0	0.4	20.0				30.1	46.0	-15.9
0.521	9.7			0.0	0.3	20.0				30.0	46.0	-16.0
0.816	9.6			0.0	0.3	20.0				29.9	46.0	-16.1