
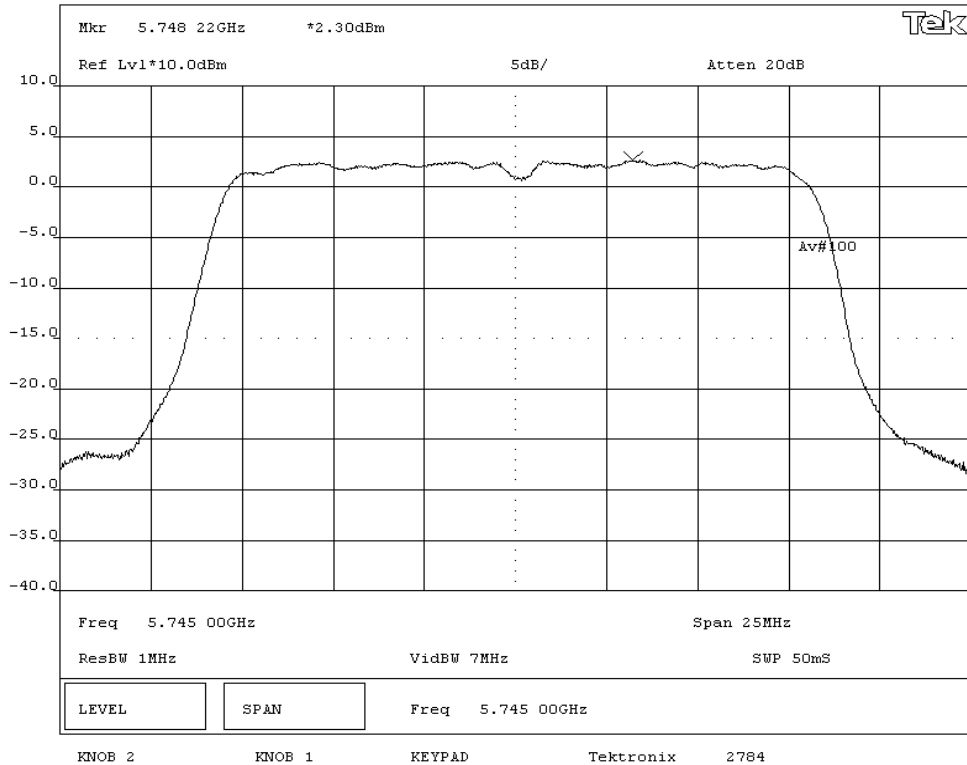



NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: 802MIAG-CV60			Work Order: ITRM0041		
Serial Number: 002-032			Date: 09/27/04		
Customer: Intermec Corporation			Temperature: 72F		
Attendees: None			Humidity: 38% RH		
Customer Ref. No.: N/A		Tested by: Greg Kiemel		Job Site: EV06	
		Power: 120 V, 60 Hz			
TEST SPECIFICATIONS					
Specification: 47 CFR 15.407(a)(1)-(3)		Year: 2002		Method: DA 02-2138, ANSI C63.4	
				Year: 2002, 2001	
SAMPLE CALCULATIONS					
EIRP (peak) = Peak Power + Maximum Antenna Gain					
COMMENTS					
Tested in CV60 Computer. The transmission pulse duration (T) is 1.02 mS.					
EUT OPERATING MODES					
The transmission pulse duration is the same for all data rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
For the 5.725 - 5.825 GHz band, the peak power spectral density shall not exceed 17dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Peak Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 54 Mbit

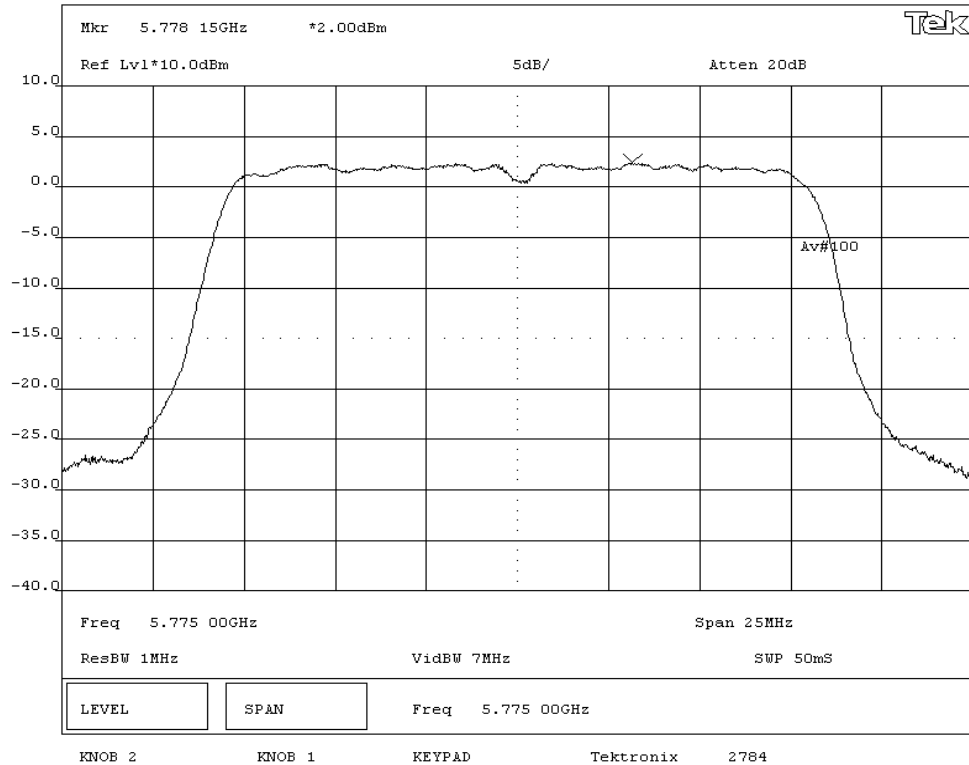
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5745.0	2.3	17.0	1.0	3.3




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: 802MIAG-CV60			Work Order: ITRM0041		
Serial Number: 002-032			Date: 09/27/04		
Customer: Intermec Corporation			Temperature: 72F		
Attendees: None			Humidity: 38% RH		
Customer Ref. No.: N/A		Tested by: Greg Kiemel		Job Site: EV06	
		Power: 120 V, 60 Hz			
TEST SPECIFICATIONS					
Specification: 47 CFR 15.407(a)(1)-(3)		Year: 2002		Method: DA 02-2138, ANSI C63.4	
				Year: 2002, 2001	
SAMPLE CALCULATIONS					
EIRP (peak) = Peak Power + Maximum Antenna Gain					
COMMENTS					
Tested in CV60 Computer. The transmission pulse duration (T) is 1.02 mS.					
EUT OPERATING MODES					
The transmission pulse duration is the same for all data rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
For the 5.725 - 5.825 GHz band, the peak power spectral density shall not exceed 17dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Peak Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 54 Mbit

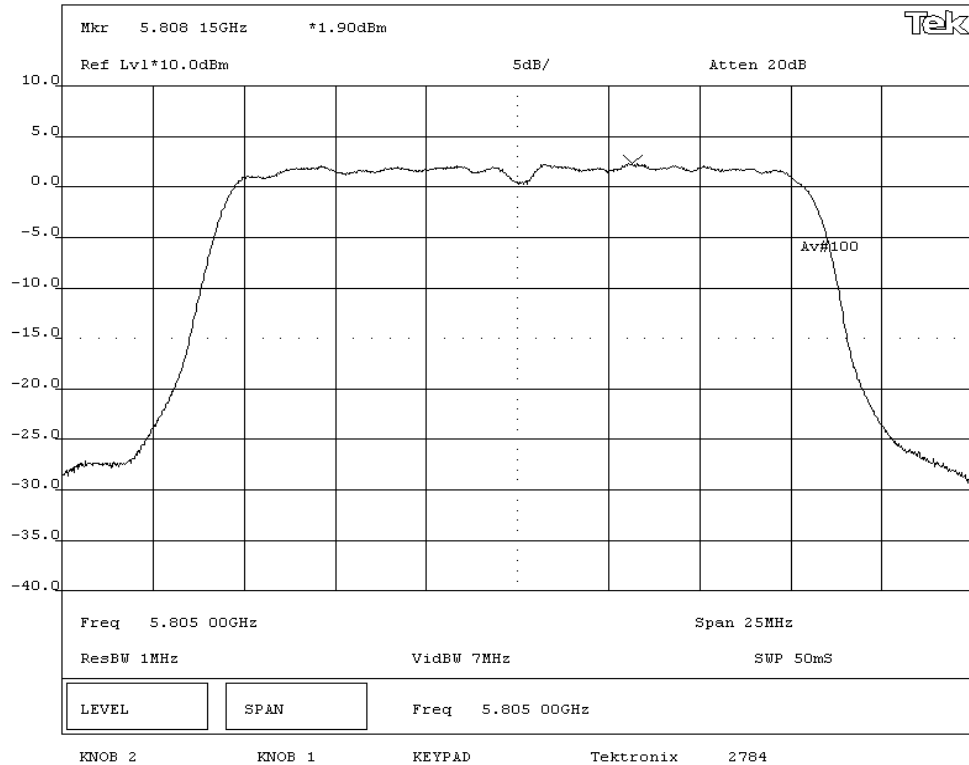
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5775.0	2.0	17.0	1.0	3.0

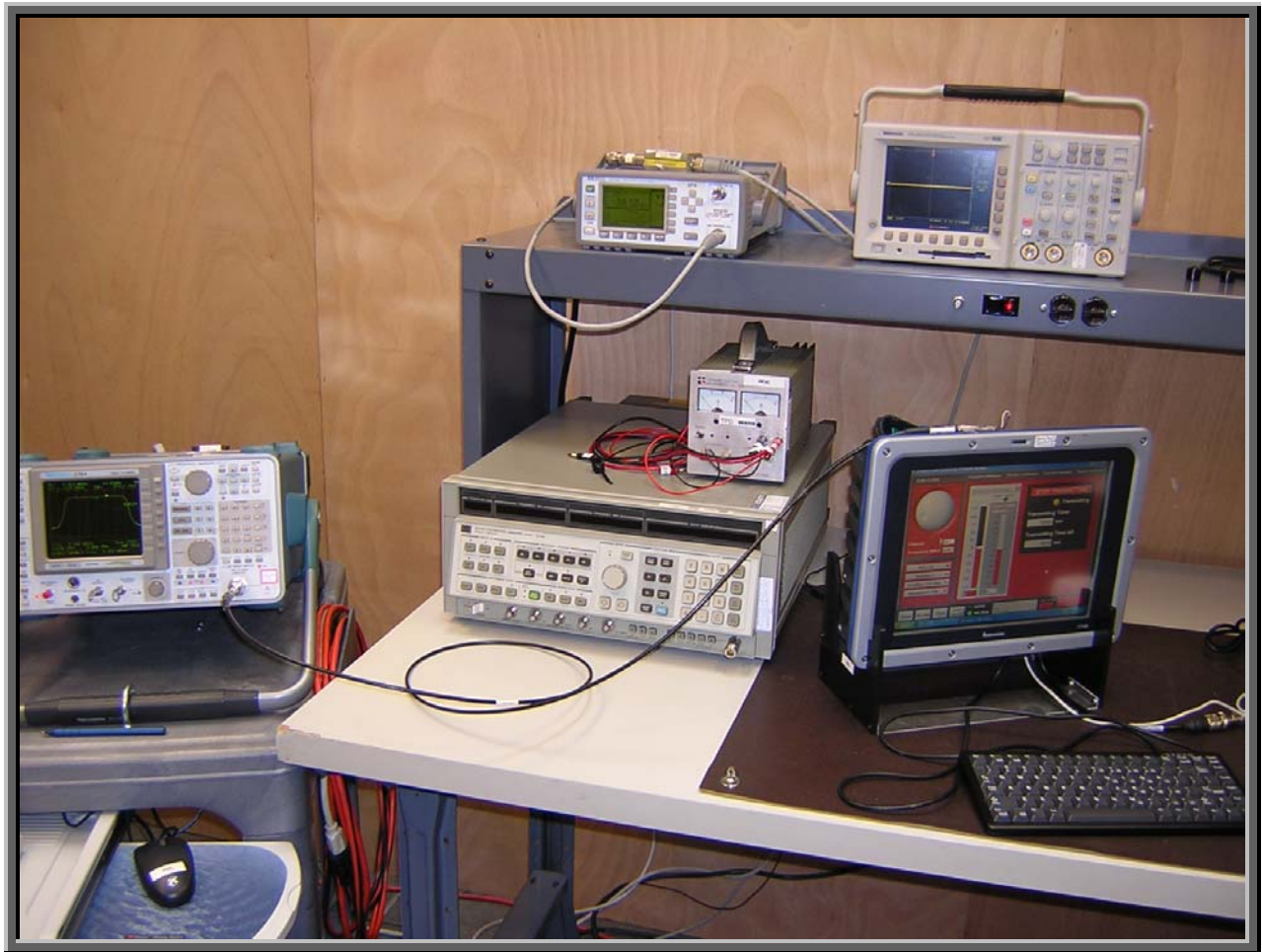


NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01
EUT: 802MIAG-CV60		Work Order: ITRM0041		
Serial Number: 002-032		Date: 09/27/04		
Customer: Intermec Corporation		Temperature: 72F		
Attendees: None		Humidity: 38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz		Job Site: EV06
TEST SPECIFICATIONS				
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.4		Year: 2002, 2001
SAMPLE CALCULATIONS				
EIRP (peak) = Peak Power + Maximum Antenna Gain				
COMMENTS				
Tested in CV60 Computer. The transmission pulse duration (T) is 1.02 mS.				
EUT OPERATING MODES				
The transmission pulse duration is the same for all data rates and transmit channels.				
DEVIATIONS FROM TEST STANDARD				
None				
REQUIREMENTS				
For the 5.725 - 5.825 GHz band, the peak power spectral density shall not exceed 17dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.				
RESULTS				
Pass				
SIGNATURE				
 Tested By: _____				
DESCRIPTION OF TEST				
Peak Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band				

Tx Data Rate: 54 Mbit

Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5805.0	1.9	17.0	1.0	2.9





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:

Ch 36 (5180 MHz)
Ch 40 (5200 MHz)
Ch 48 (5240 MHz)
Ch 52 (5260 MHz)
Ch 60 (5300 MHz)
Ch 64 (5320 MHz)
Ch 149 (5745 MHz)
Ch 155 (5775 MHz)
Ch 161 (5805 MHz)

Operating Modes Investigated:

Typical

Data Rates Investigated:

6 Mbit
36 Mbit
54 Mbit

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
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Description

The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio	Intermec	802MIAG-CV60	002-032
Host PC	Intermec Technologies Corporation	CV60	23100400645
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	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

Requirements: Per 15.407(a)(6), "The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified in this paragraph) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less."

Configuration: FCC Public Notice DA 02-2138 was followed. The transmit frequency was set to the lowest, a medium, and the highest channels in each band. The transmit power was set to its default maximum. The lowest, a medium, and the highest data rates were measured. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

The spectrum analyzer settings were as follows:

- Span set to encompass the entire emission bandwidth (B), centered on the transmit channel.
- Using the marker delta function, the largest difference between the following two traces was measured:
 - 1st Trace: RBW = 1 MHz, VBW \geq 3 MHz with peak detector and max-hold settings.
 - 2nd Trace: Use same settings as were used for peak conducted transmit power.

Completed by:

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
None

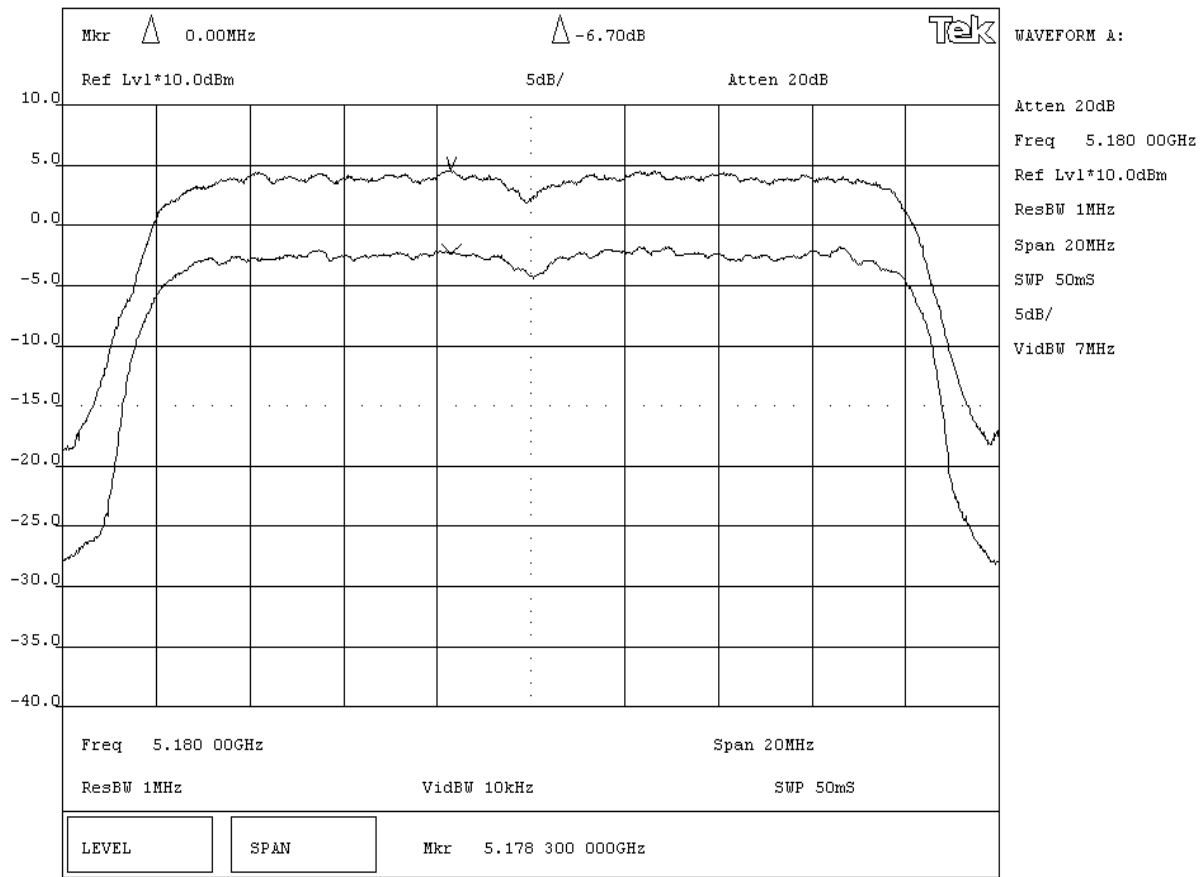
REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	6.7 dB

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Low Channel - 5.15 to 5.25 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

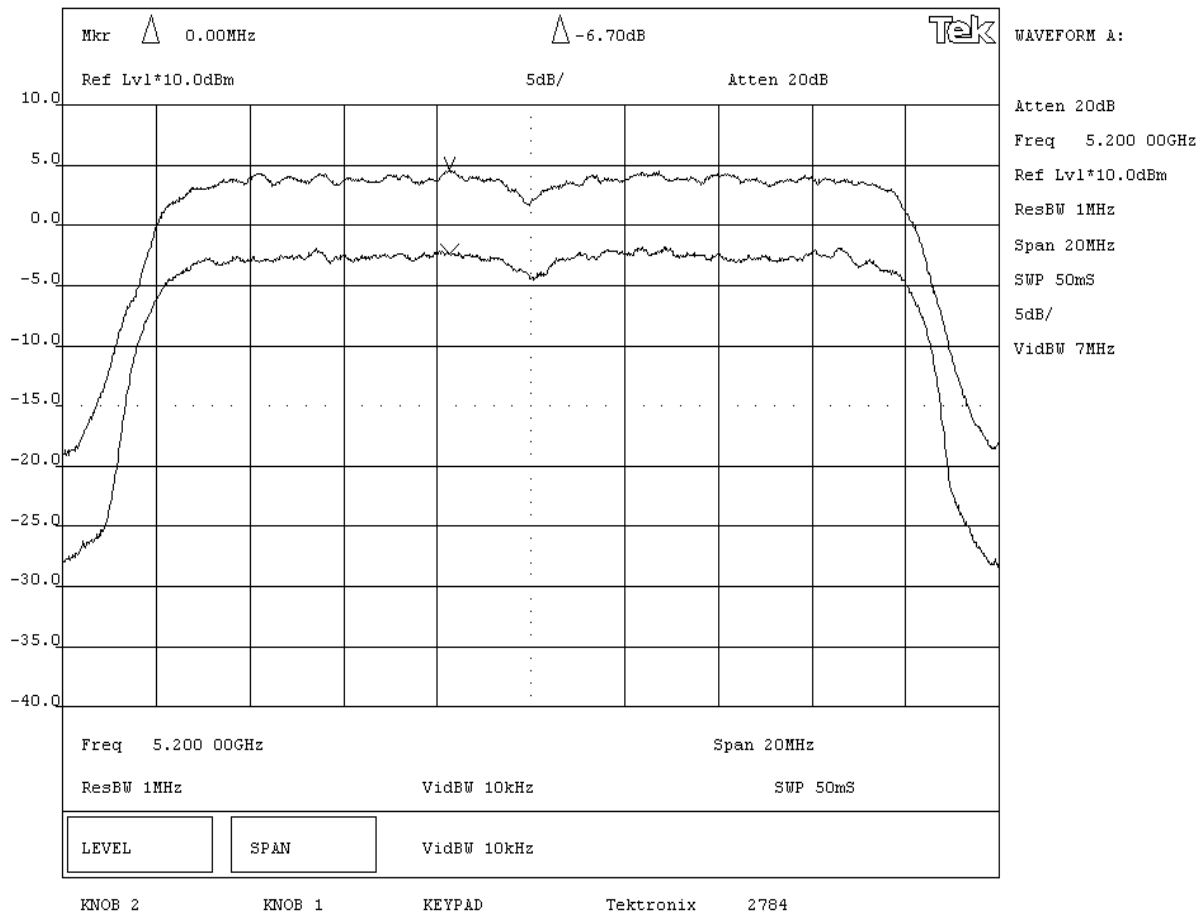
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	6.7 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Mid Channel - 5.15 to 5.25 GHz Band



EUT: 802MIAG-CV60		Work Order: ITRM0041	
Serial Number: 002-032		Date: 09/27/04	
Customer: Intermec Corporation		Temperature: 72F	
Attendees: None		Tested by: Greg Kiemel	
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	
		Humidity: 38% RH	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS

Tested in CV60 Computer

EUT OPERATING MODES

Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None


REQUIREMENTS

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS

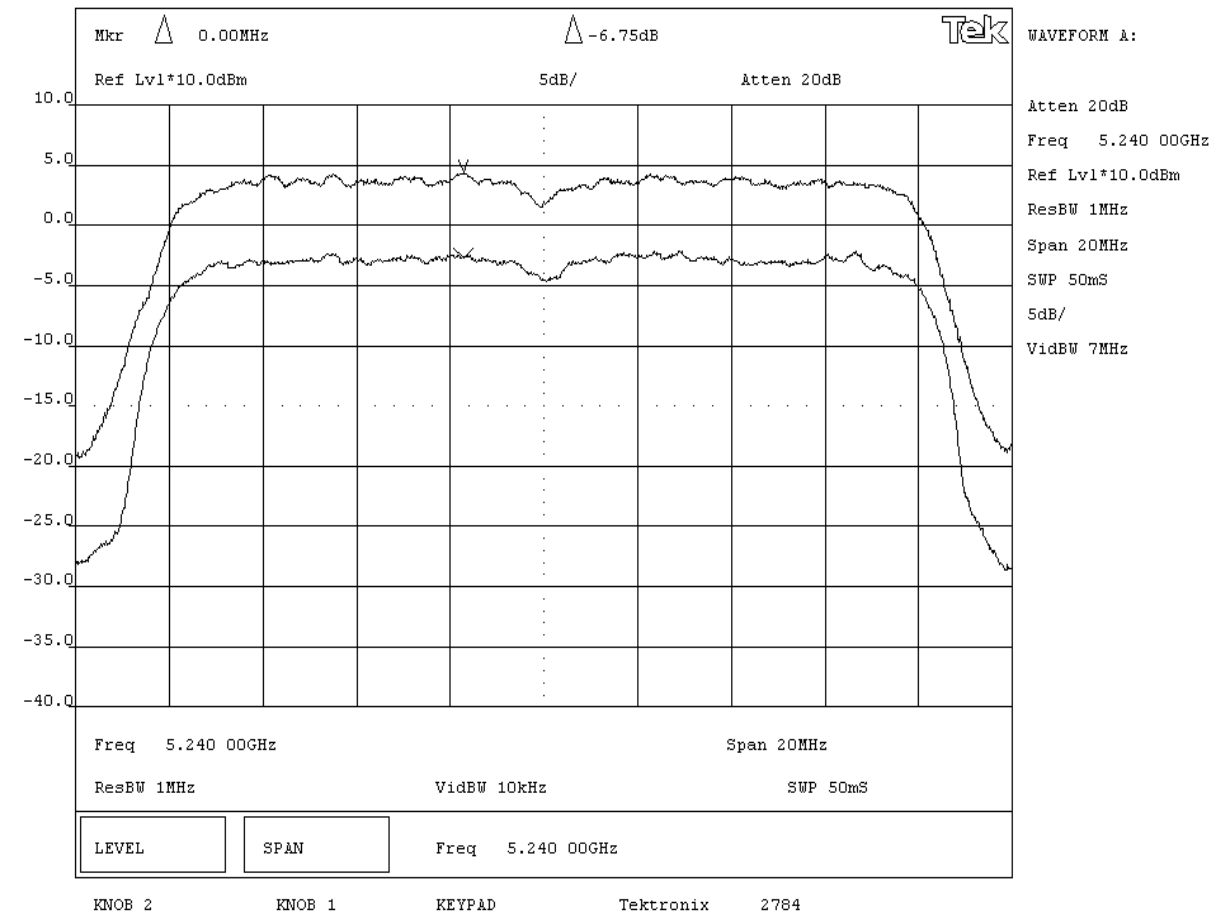
Pass	Peak Excursion
	6.75 dB

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Peak Excursion of the Modulation Envelope - High Channel - 5.15 to 5.25 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS			

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

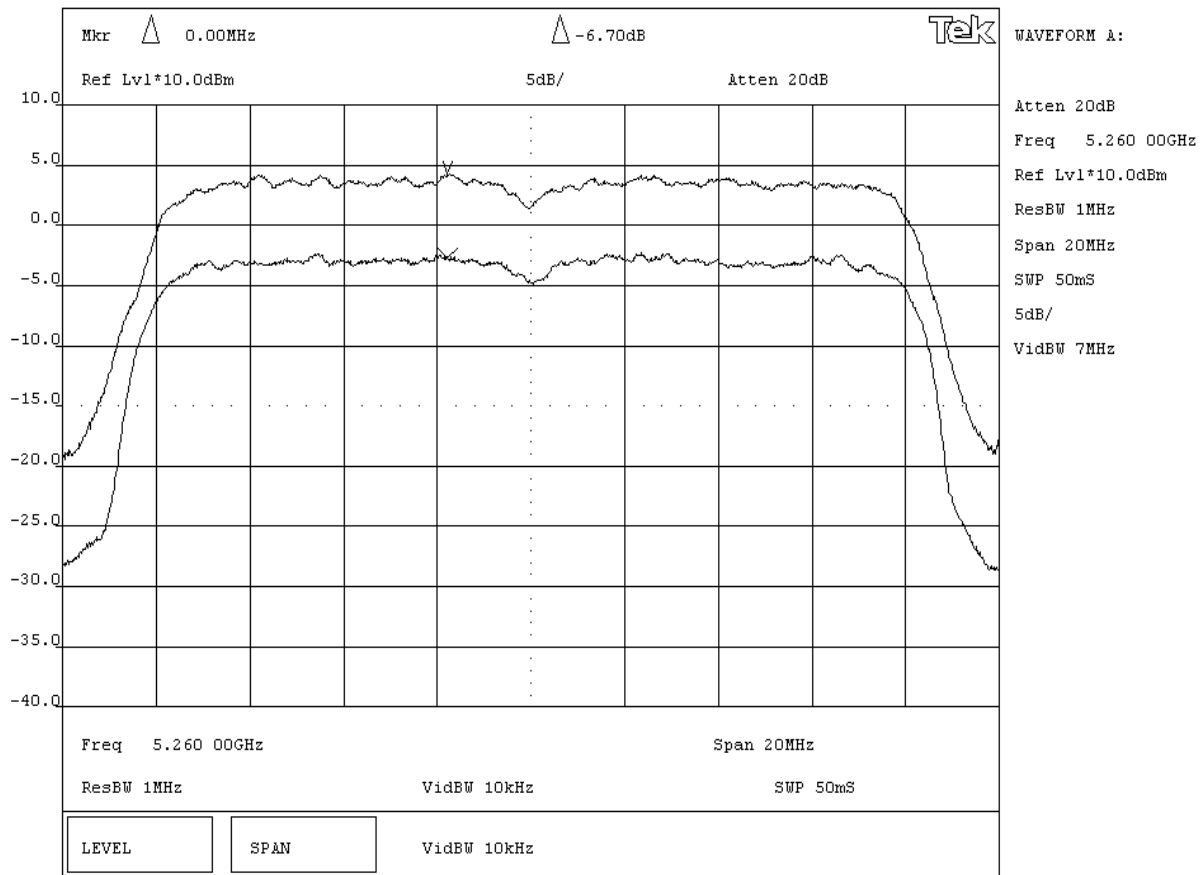
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	6.7 dB

SIGNATURE
Tested By: 

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Low Channel - 5.25 to 5.35 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

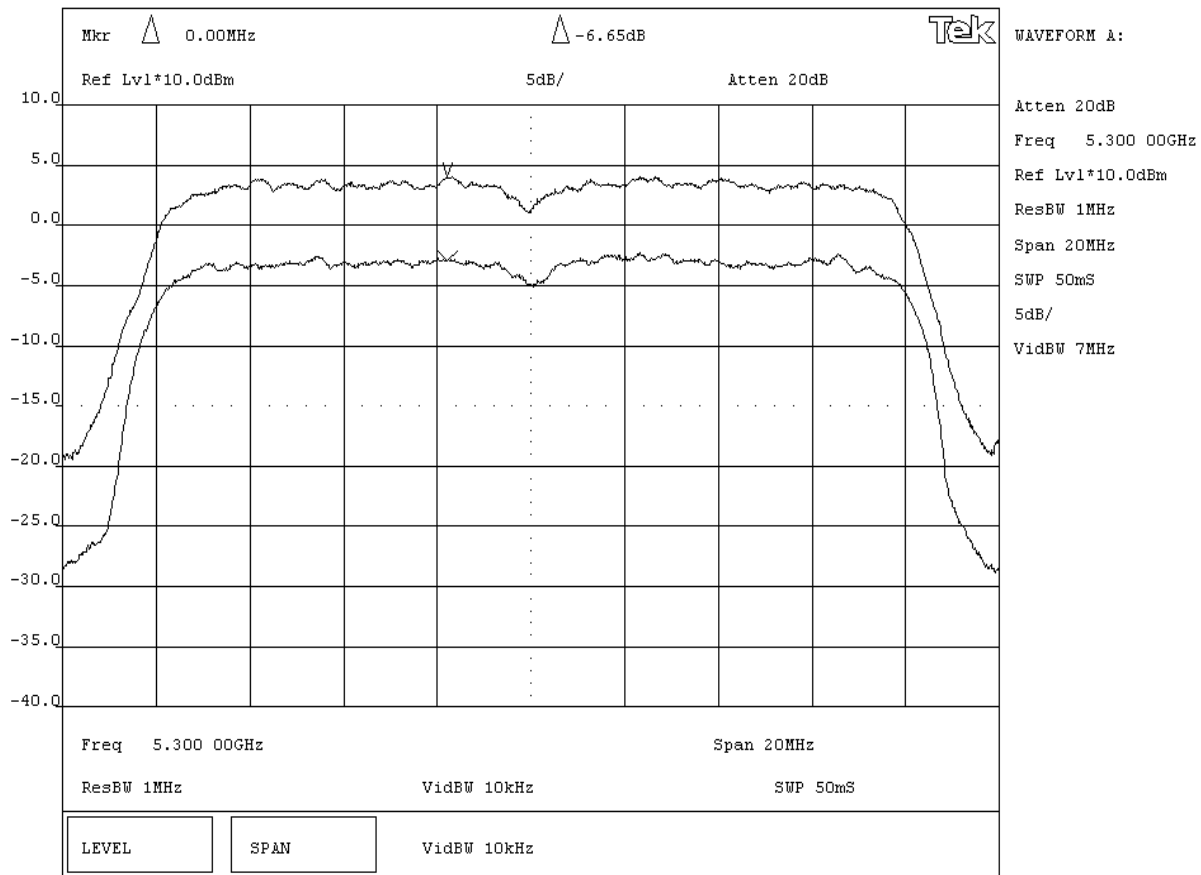
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	6.65 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Mid Channel - 5.25 to 5.35 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS			

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

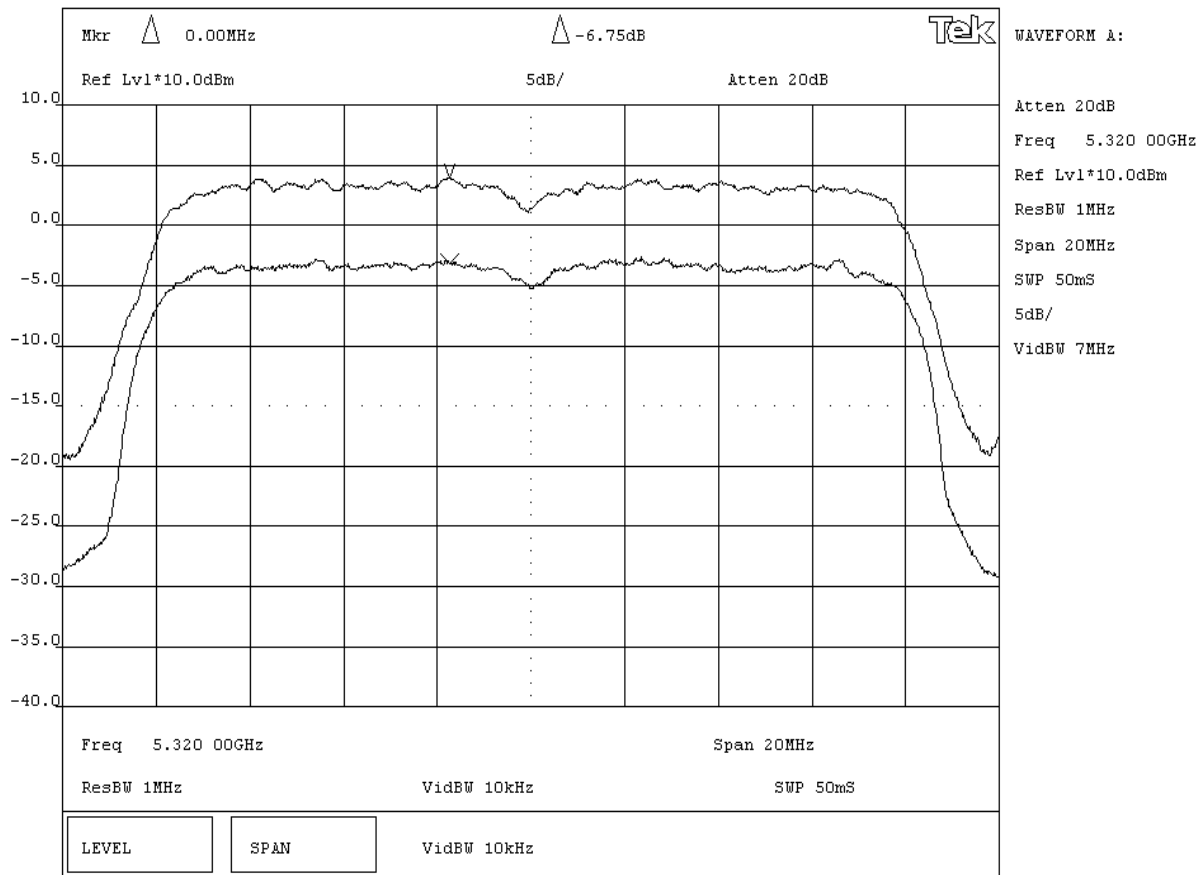
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	6.75 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - High Channel - 5.25 to 5.35 GHz Band



EUT: 802MIAG-CV60		Work Order: ITRM0041	
Serial Number: 002-032		Date: 09/27/04	
Customer: Intermec Corporation		Temperature: 72F	
Attendees: None		Tested by: Greg Kiemel	
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	
		Humidity: 38% RH	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
None

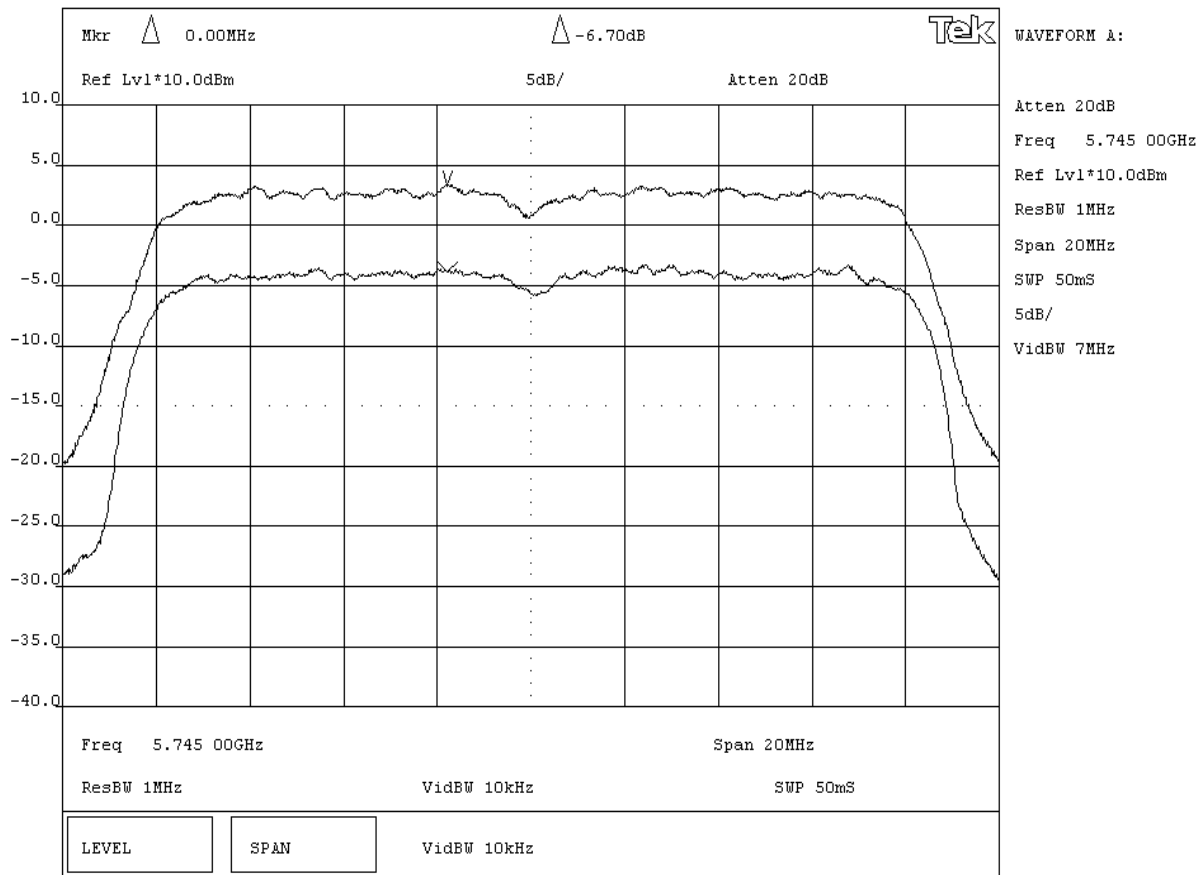
REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	6.7 dB

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Low Channel - 5.725 to 5.825 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

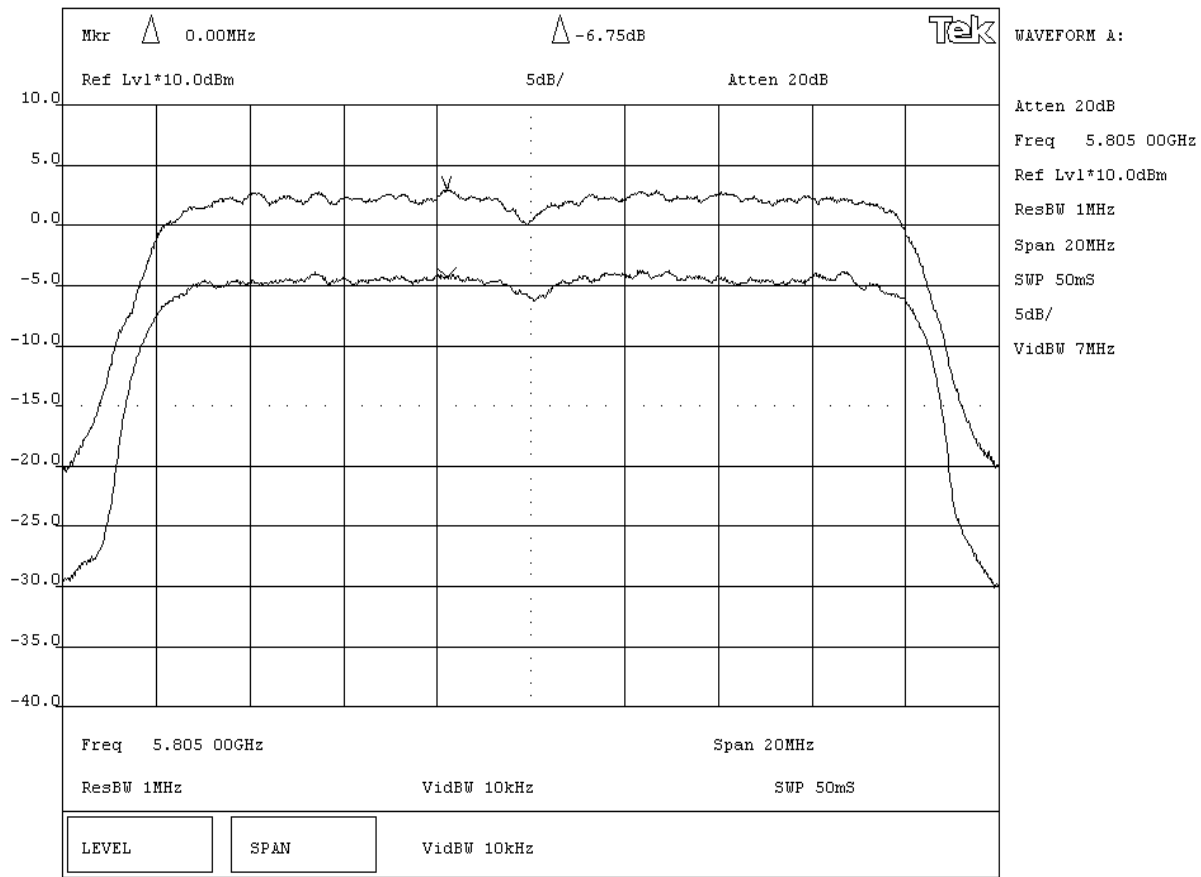
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	6.75 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - High Channel - 5.725 to 5.825 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

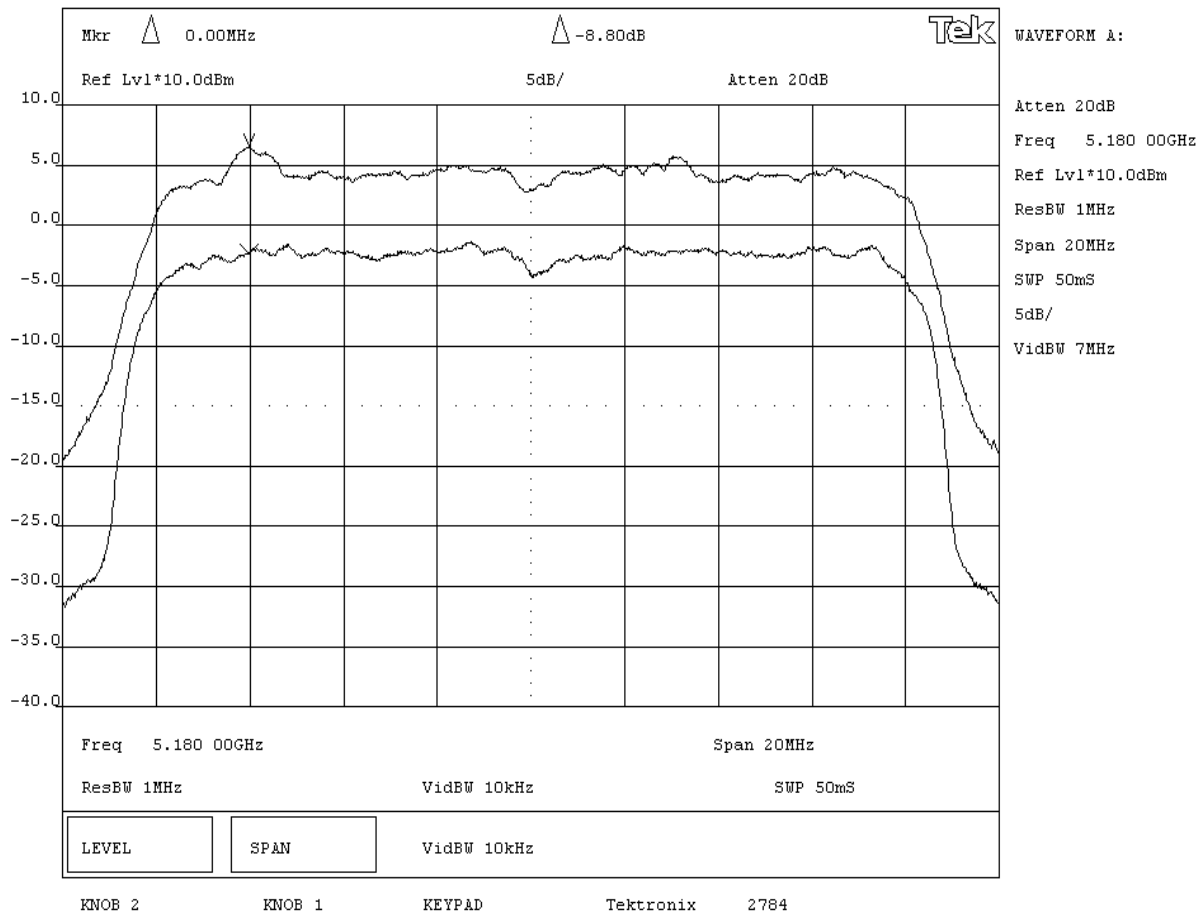
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.8 dB

SIGNATURE
 Tested By: _____

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Low Channel - 5.15 to 5.25 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

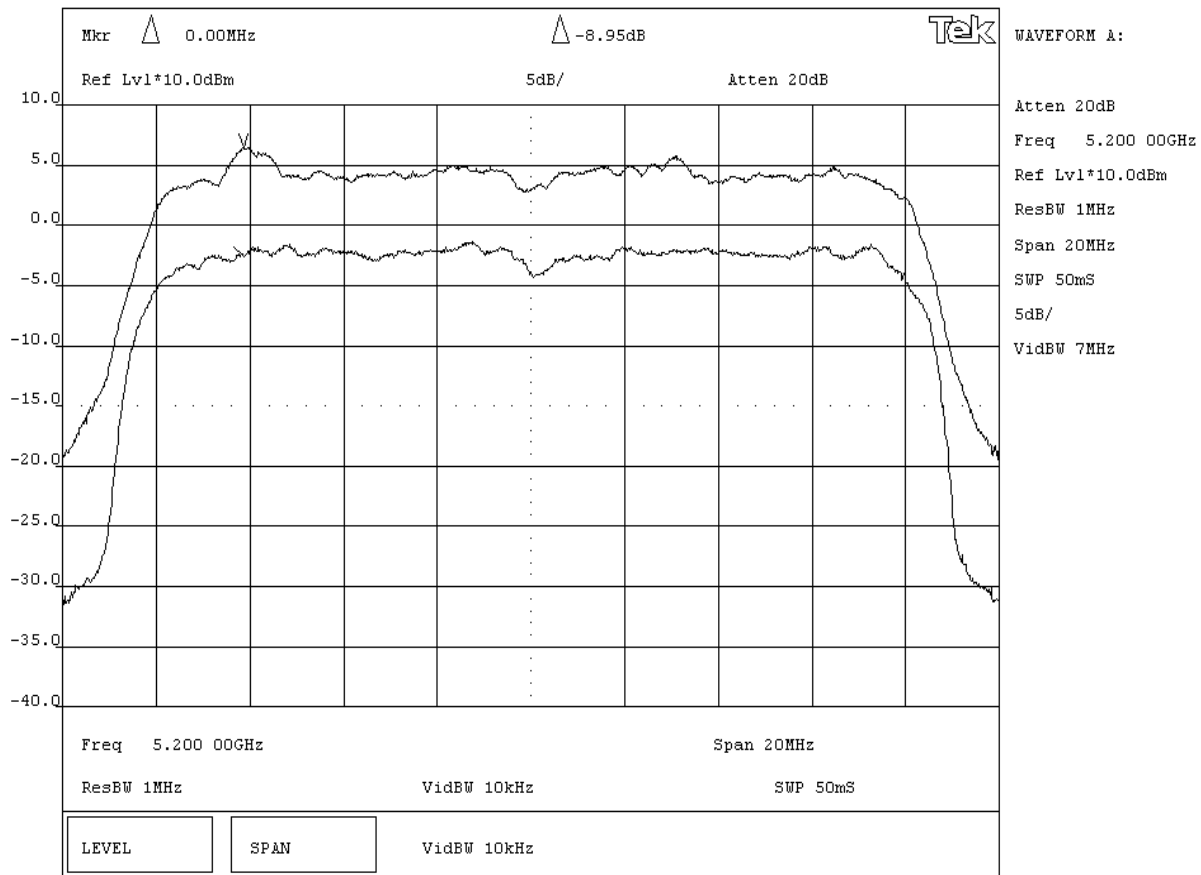
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.95 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Mid Channel - 5.15 to 5.25 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS

Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
None

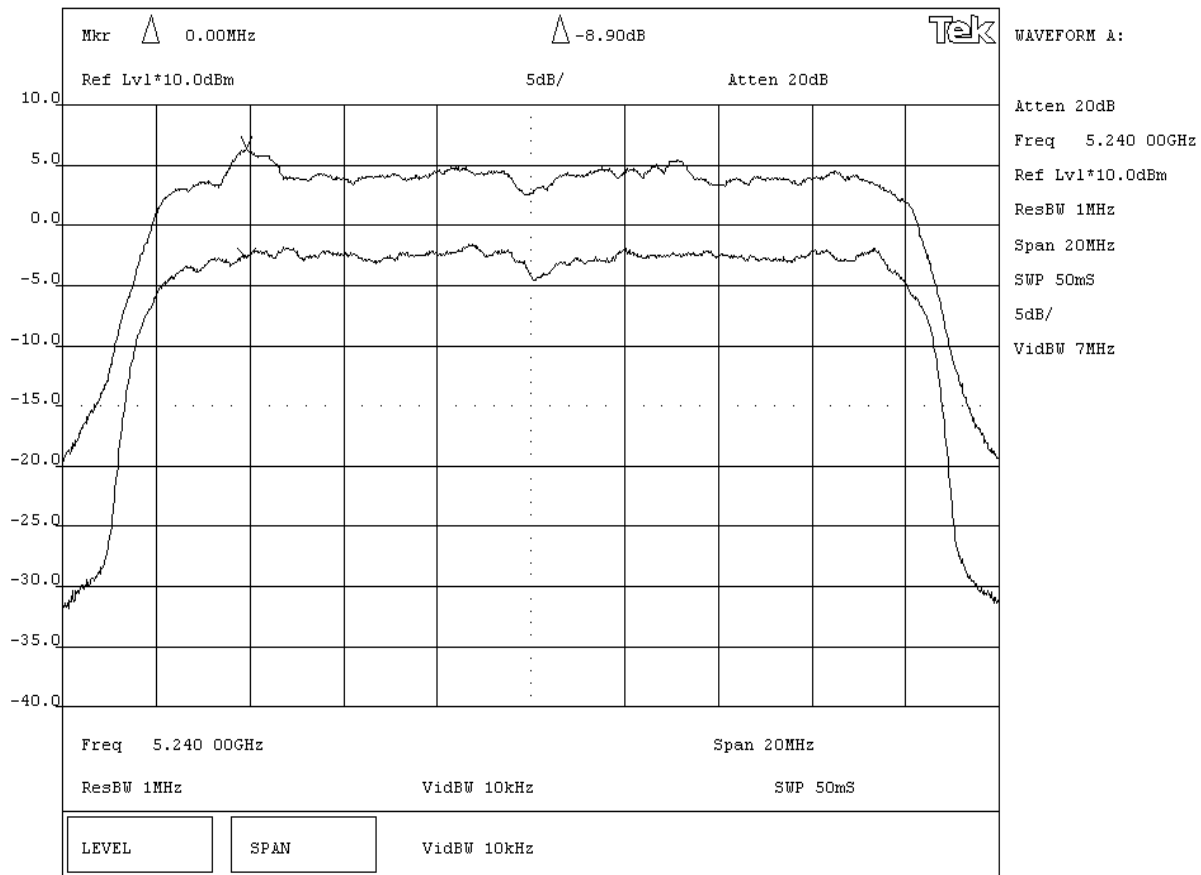
REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.9 dB

SIGNATURE

Tested By: 

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - High Channel - 5.15 to 5.25 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

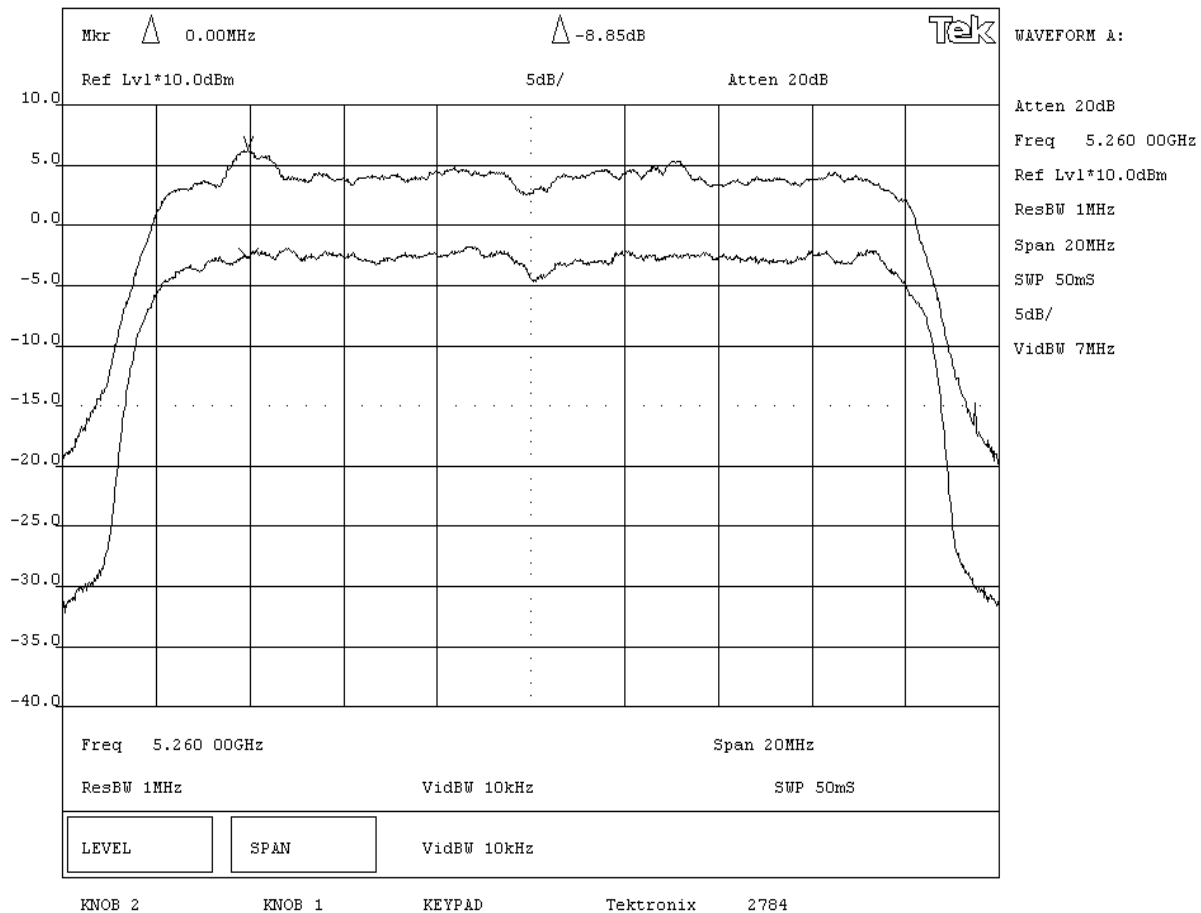
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.85 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Low Channel - 5.25 to 5.35 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

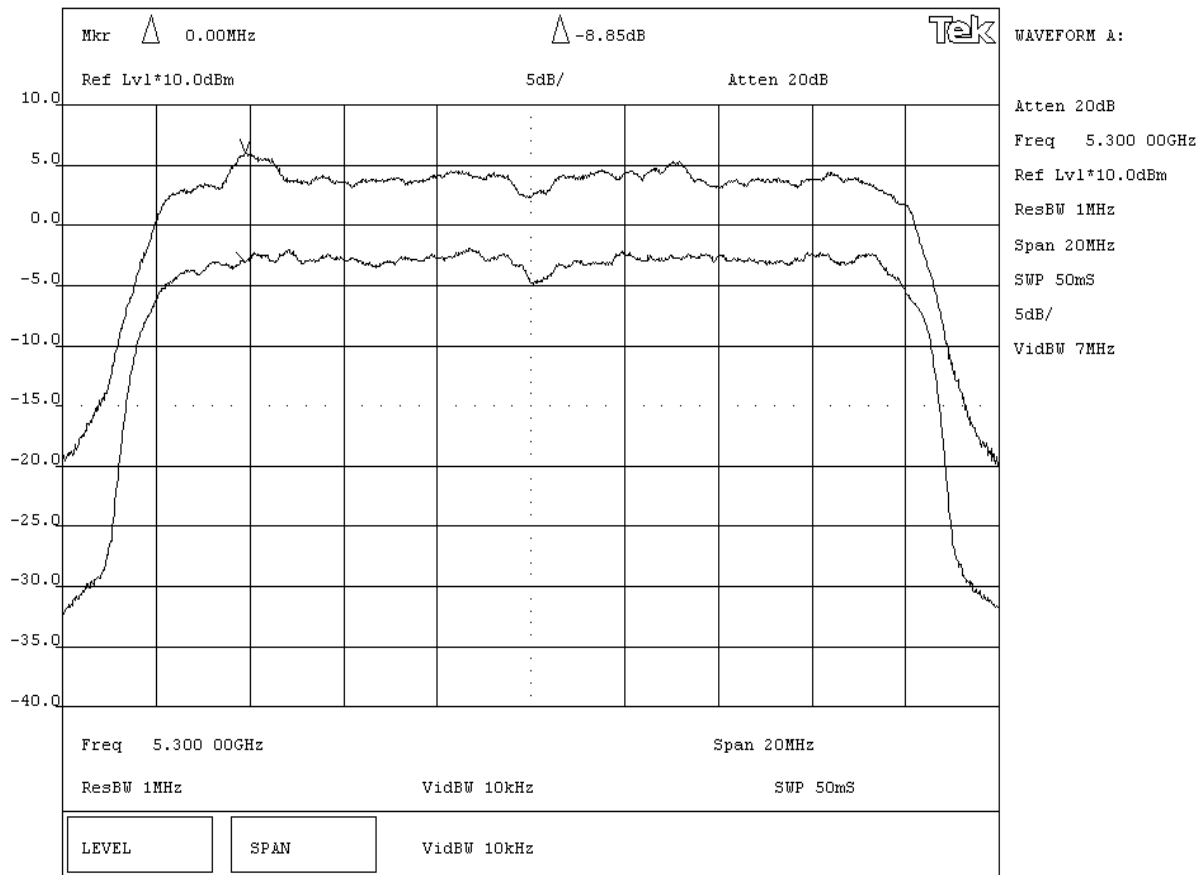
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.85 dB

SIGNATURE
 Tested By: _____

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Mid Channel - 5.25 to 5.35 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

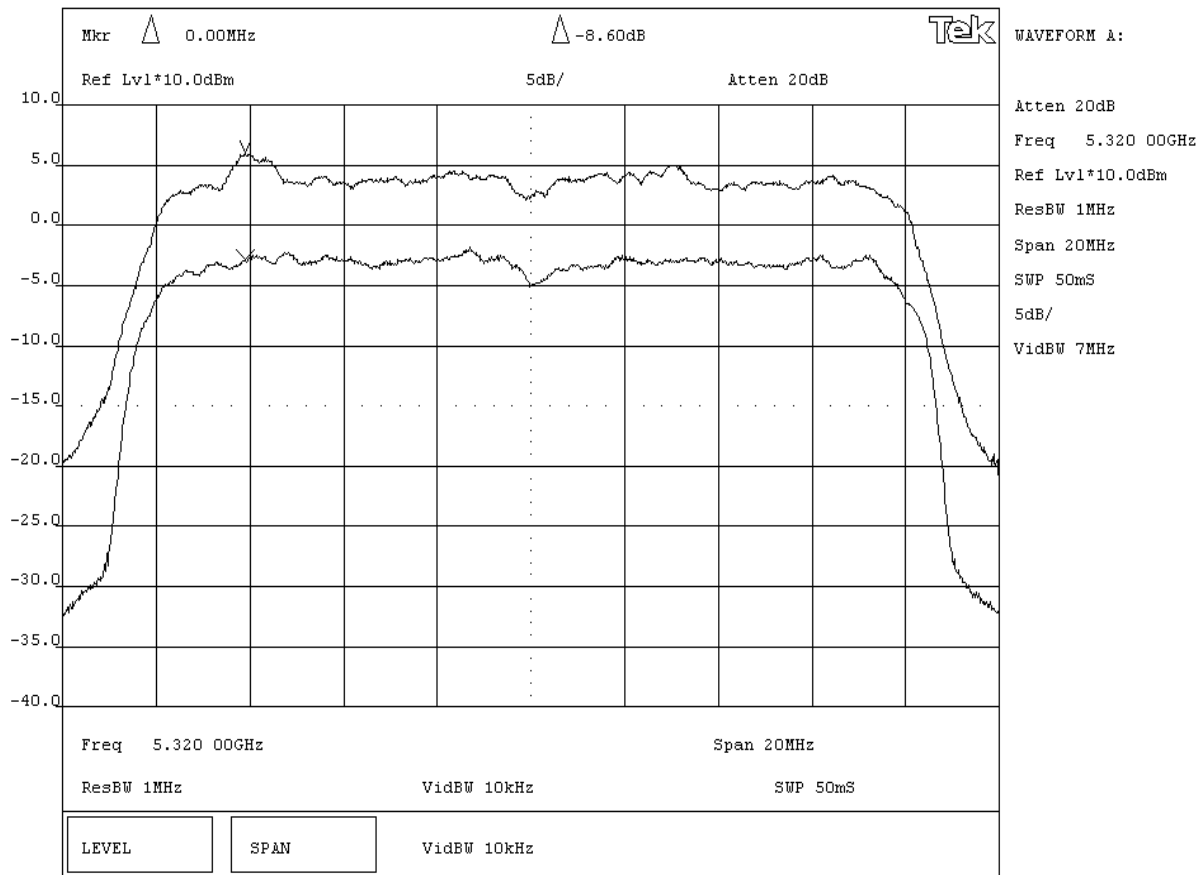
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.6 dB

SIGNATURE
 Tested By: _____

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - High Channel - 5.25 to 5.35 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

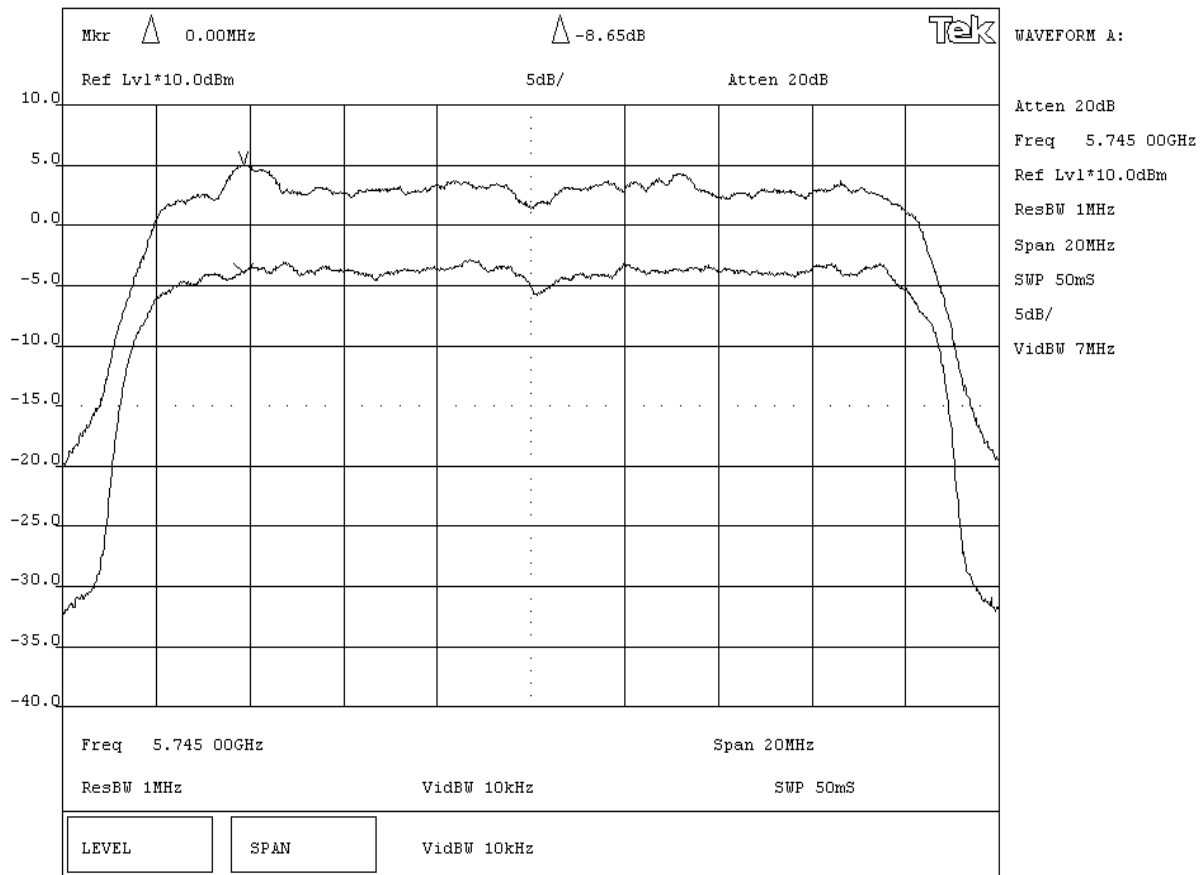
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.65 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Low Channel - 5.725 to 5.825 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

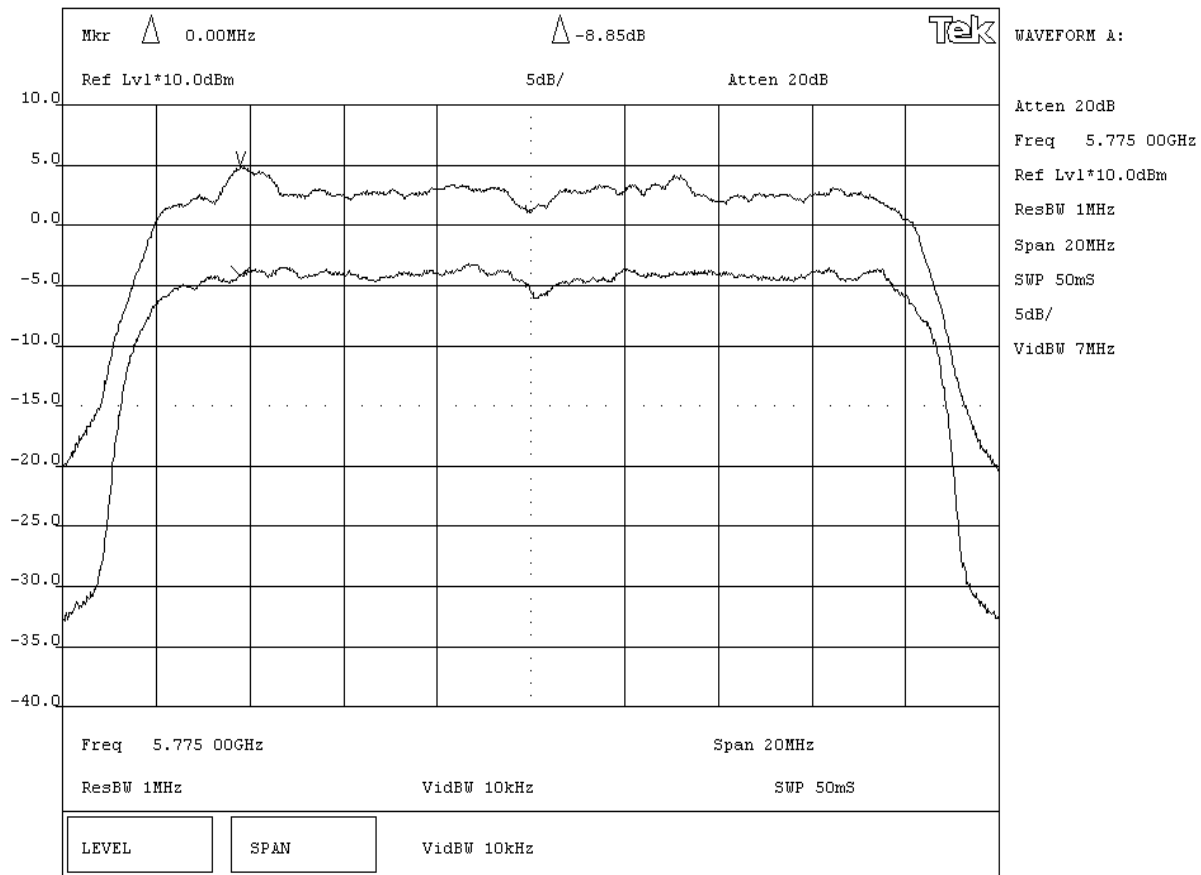
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.85 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Mid Channel - 5.725 to 5.825 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

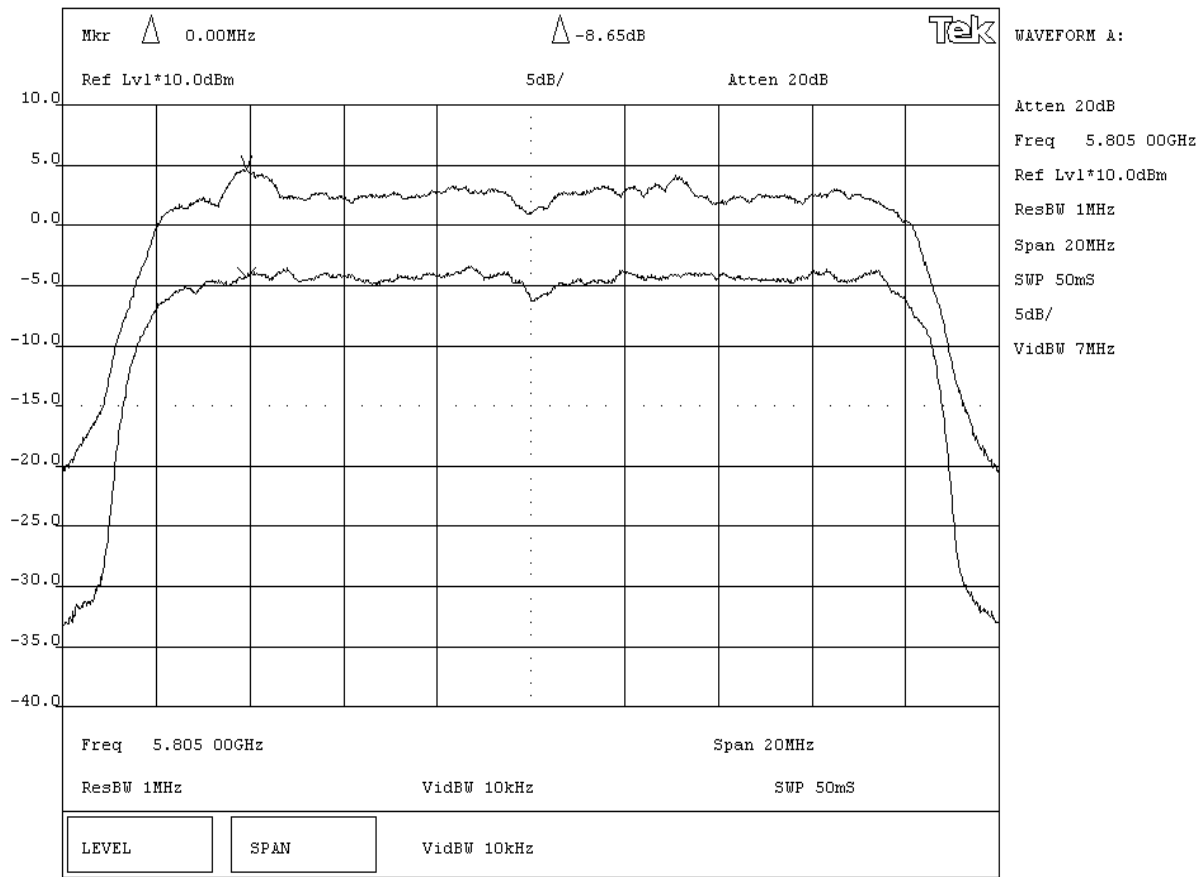
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.65 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - High Channel - 5.725 to 5.825 GHz Band



EUT: 802MIAG-CV60		Work Order: ITRM0041	
Serial Number: 002-032		Date: 09/27/04	
Customer: Intermec Corporation		Temperature: 72F	
Attendees: None		Humidity: 38% RH	
Customer Ref. No.: N/A	Tested by: Greg Kiemel	Power: 120 V, 60 Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS			

COMMENTS			
Tested in CV60 Computer			

EUT OPERATING MODES			
Modulated at 54 Mbit. Maximum output power.			

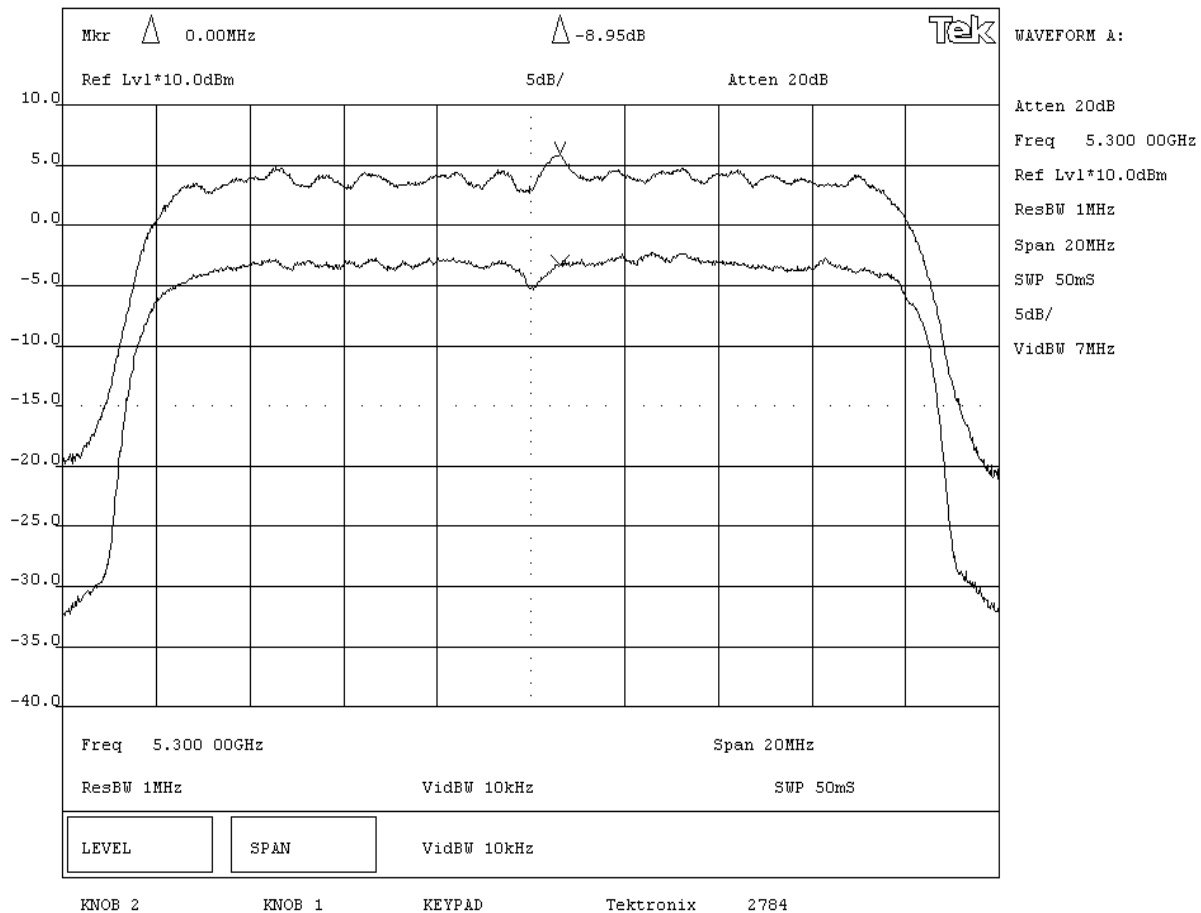
DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.			

RESULTS	Peak Excursion
Pass	8.95 dB

SIGNATURE	
 Tested By: _____	

DESCRIPTION OF TEST	
Peak Excursion of the Modulation Envelope - Mid Channel - 5.25 to 5.35 GHz Band	



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 54 Mbit. Maximum output power.

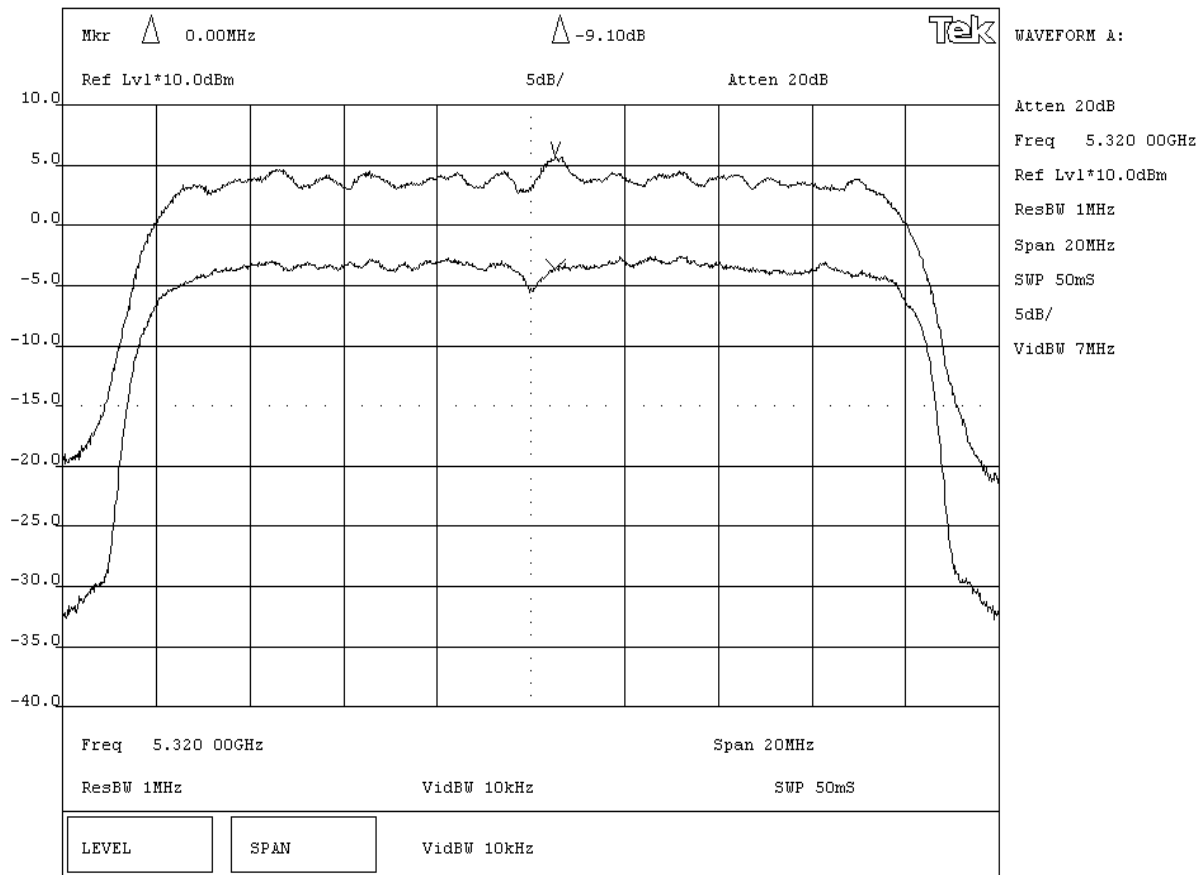
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	9.1 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - High Channel - 5.25 to 5.35 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 54 Mbit. Maximum output power.

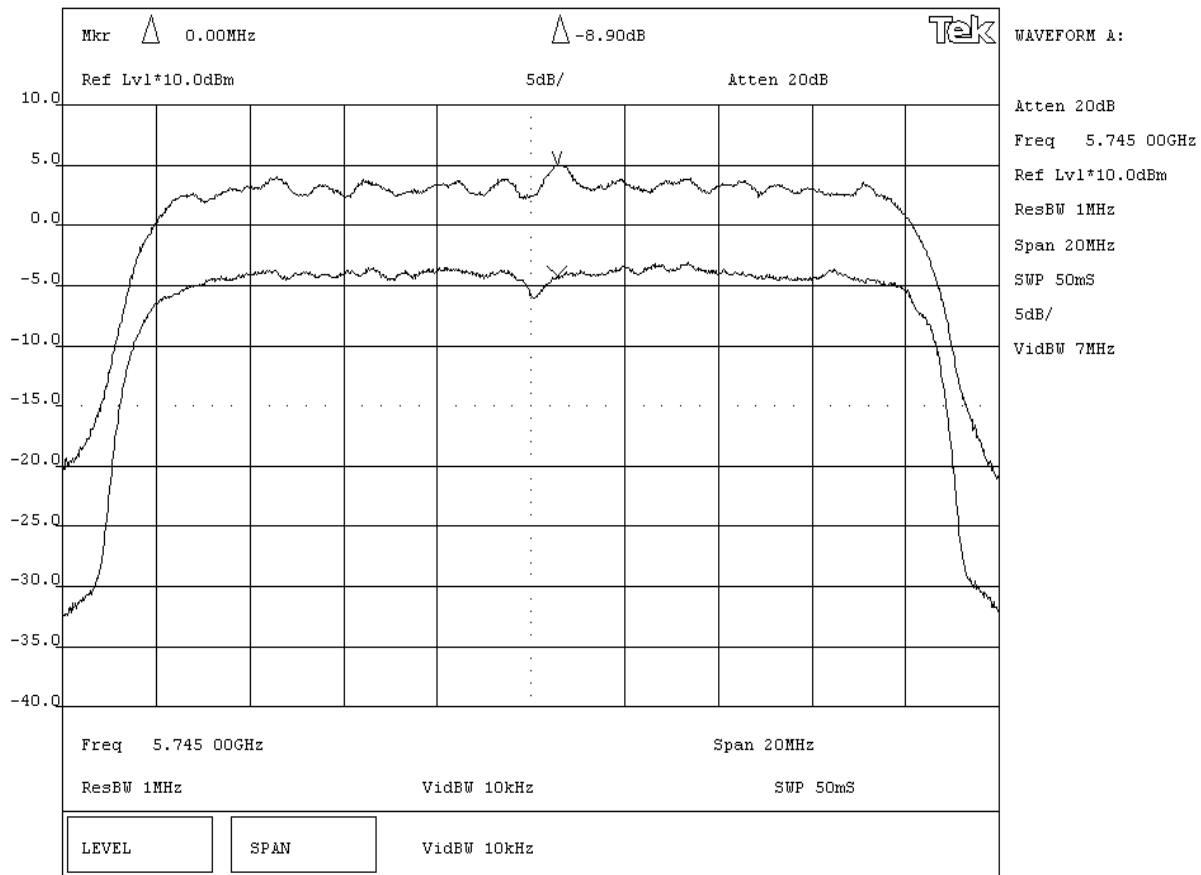
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	8.9 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - Low Channel - 5.725 to 5.825 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(a)(6)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001

SAMPLE CALCULATIONS

COMMENTS
Tested in CV60 Computer

EUT OPERATING MODES
Modulated at 54 Mbit. Maximum output power.

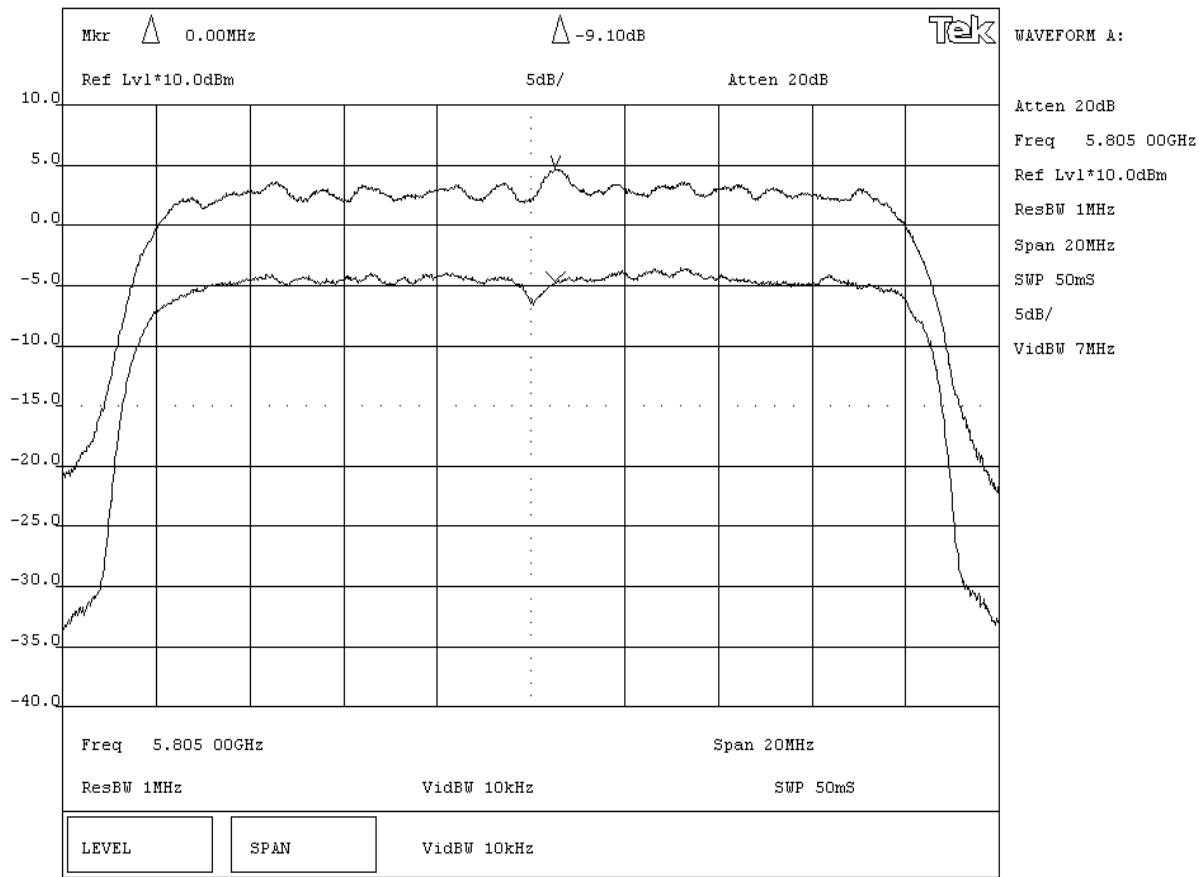
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS	Peak Excursion
Pass	9.1 dB

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Peak Excursion of the Modulation Envelope - High Channel - 5.725 to 5.825 GHz Band





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:

Channel 36 (5180MHz)
Channel 44 (5220MHz)
Channel 52 (5260MHz)
Channel 64 (5320MHz)
Channel 146 (5730MHz)
Channel 155 (5775MHz)
Channel 164 (5820MHz)
Channel 149 (5745 MHz)
Channel 155 (5775 MHz)
Channel 161 (5805 MHz)

Operating Modes Investigated:

Typical

Data Rates Investigated:

6Mbit
36Mbit
54Mbit

Antenna(s) Investigated:

Integral Linear Antenna, Intermec P/N 805-615-101

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Frequency Range Investigated:

30 MHz to 40 GHz

Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
Description			
The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.			

EUT and Peripherals			
Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio	Intermec	802MIAG-CV60	none
Host PC	Intermec Technologies Corporation	CV60	23100400645
Headset	Unknown	Unknown	Unknown
Headphones	Sony	Unknown	Unknown
External Floppy Drive	TEAC	FC-05PU	0045708
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Audio	No	1.2	No	Host PC	Headset
AC Power	No	1.0	No	Host PC	Headphones
USB	Yes	0.2	Yes	Host PC	External Floppy Drive
Serial (x2)	Yes	1.8	No	Host PC	Termination
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
LAN (10BT)	No	1.6	No	Host PC	Termination
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	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	Hewlett-Packard	8566B	AAL	12/23/2003	13 mo
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	12/23/2003	13 mo
Antenna, Biconilog	EMCO	3141	AXE	12/03/2003	24 mo
Pre-Amplifier	Amplifier Research	LN1000A	APS	02/05/2004	13 mo
Antenna, Horn	EMCO	3115	AHF	03/18/2004	24 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APJ	01/05/2004	13 mo
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo
Antenna, Horn	EMCO	3160-09	AHG	NCR	NA
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	10/08/2003	12 mo
Pre-Amplifier	Miteq	JS4-26004000-40-8P	APV	10/08/2003	12 mo
Pre-Amplifier	Miteq	JS4-26004000-50-5A	AON	10/08/2005	12 mo
Antenna, Horn	EMCO	3160-10	AHI	NCR	NA
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	04/01/2004	24 mo
7.5-9.5 GHz Bandpass Filter	K&L Microwave	7ED20-8500/E2000-O/O	HFL	04/05/2004	24 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	04/13/2004	13 mo
5.8 GHz Notch Filter	Micro-Tronics	BRC50705	HFQ	09/02/2004	13 mo
Antenna, Horn	EMCO	3160-08	AHK	NCR	NA
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	10/08/2003	12 mo
Antenna, Horn	EMCO	3115	AHC	09/07/2004	12 mo
Signal Generator	Hewlett Packard	8341B	TGN	01/23/2004	13 mo
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	12/27/2002	24 mo

Test Description

Requirements: Per 15.407(b), the undersirable emission limits are as follows:

Except as shown in paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
- (3) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.
- (4) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Sec. 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Sec. 15.207.
- (6) The provisions of Sec. 15.205 apply to intentional radiators operating under this section.
- (7) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

Configuration: The only antenna to be used with the EUT was tested. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. 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 C63.4:2001). A preamp and high pass filter (and notch 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:

RADIATED EMISSIONS DATA SHEET

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/09/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.209(a)
Method:	ANSI C63.4
Year:	2003
Year:	2001

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
 Radio in Host PC

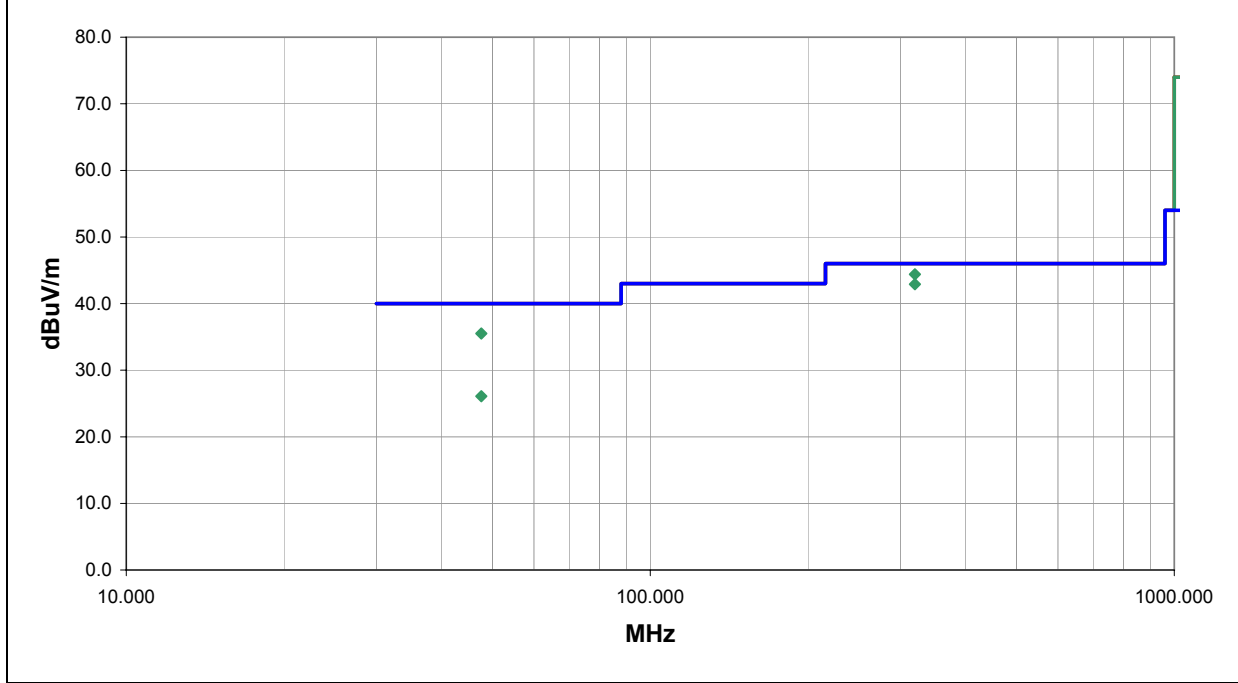
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, Channel 36.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	5

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)
320.028	51.4	-7.0	15.0	1.0	3.0	0.0	H-Bilog	QP	0.0	44.4	46.0	-1.6
320.028	49.9	-7.0	156.0	1.4	3.0	0.0	V-Bilog	QP	0.0	42.9	46.0	-3.1
47.578	47.8	-12.3	141.0	1.0	3.0	0.0	V-Bilog	QP	0.0	35.5	40.0	-4.5
47.582	38.4	-12.3	33.0	2.8	3.0	0.0	H-Bilog	QP	0.0	26.1	40.0	-13.9

NORTHWEST **EMC** **Apparent Power Data Sheet** REV d14.2 08/10/2004

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/09/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

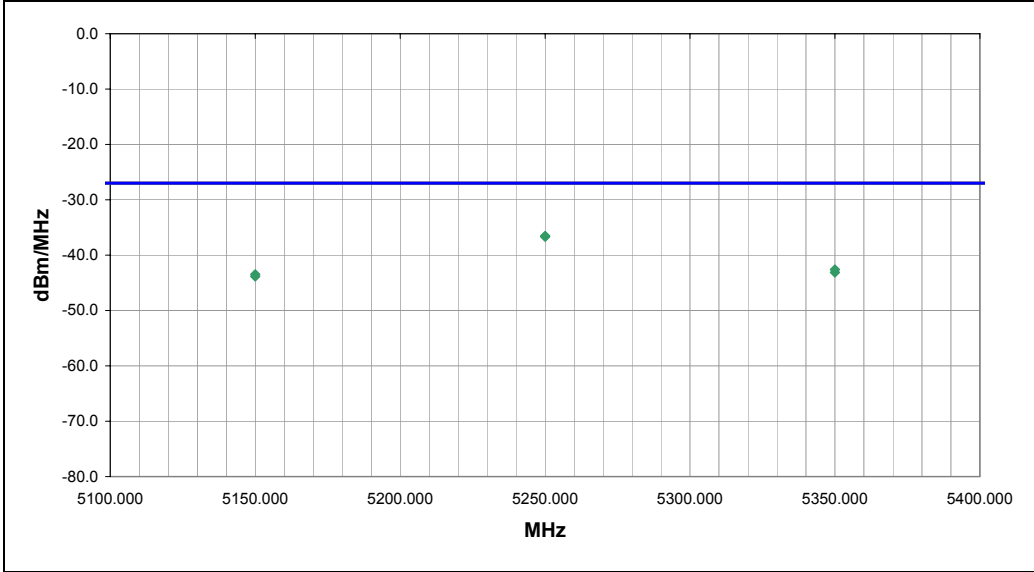
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, See comments for Channel.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	1

Other

Holly Ashkannejhad
 Tested By:



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5250.000	226.0	1.1	H-Horn	PK	-36.7	-27.0	-9.7	Channel 52.
5250.000	165.0	1.1	V-Horn	PK	-36.5	-27.0	-9.5	Channel 52.
5350.000	-1.0	1.0	H-Horn	PK	-42.6	-27.0	-15.6	Channel 64
5150.000	362.0	1.1	H-Horn	PK	-43.5	-27.0	-16.5	Channel 36
5350.000	360.0	1.0	V-Horn	PK	-43.1	-27.0	-16.1	Channel 64
5150.000	78.0	1.2	V-Horn	PK	-43.8	-27.0	-16.8	Channel 36

NORTHWEST **EMC RADIATED EMISSIONS DATA SHEET** REV d14.2 08/10/2004

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/09/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.209(a)	Year: 2000
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

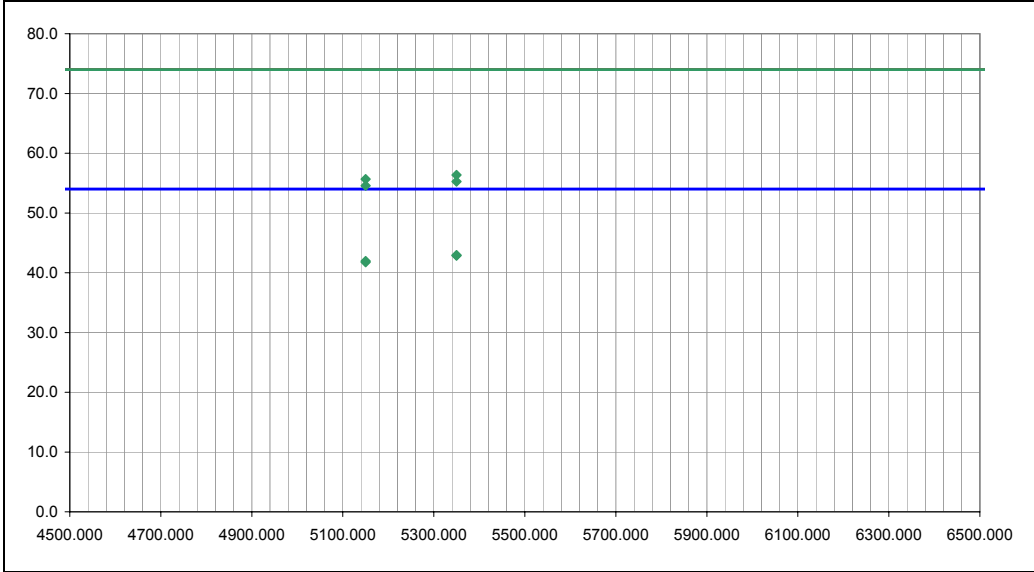
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, See comments for Channel.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	1

Other

Holly Ashkannejhad
 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
5350.000	15.1	37.4	-1.0	1.0	1.0	0.0	H-Horn	AV	-9.5	43.0	54.0	-11.0	Channel 64
5350.000	15.0	37.4	360.0	1.0	1.0	0.0	V-Horn	AV	-9.5	42.9	54.0	-11.1	Channel 64
5150.000	14.5	37.0	78.0	1.2	1.0	0.0	V-Horn	AV	-9.5	42.0	54.0	-12.0	Channel 36
5150.000	14.3	37.0	362.0	1.1	1.0	0.0	H-Horn	AV	-9.5	41.8	54.0	-12.2	Channel 36
5350.000	28.5	37.4	-1.0	1.0	1.0	0.0	H-Horn	PK	-9.5	56.4	74.0	-17.6	Channel 64
5150.000	28.2	37.0	362.0	1.1	1.0	0.0	H-Horn	PK	-9.5	55.7	74.0	-18.3	Channel 36
5350.000	27.4	37.4	360.0	1.0	1.0	0.0	V-Horn	PK	-9.5	55.3	74.0	-18.7	Channel 64
5150.000	27.1	37.0	78.0	1.2	1.0	0.0	V-Horn	PK	-9.5	54.6	74.0	-19.4	Channel 36

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkanjehad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

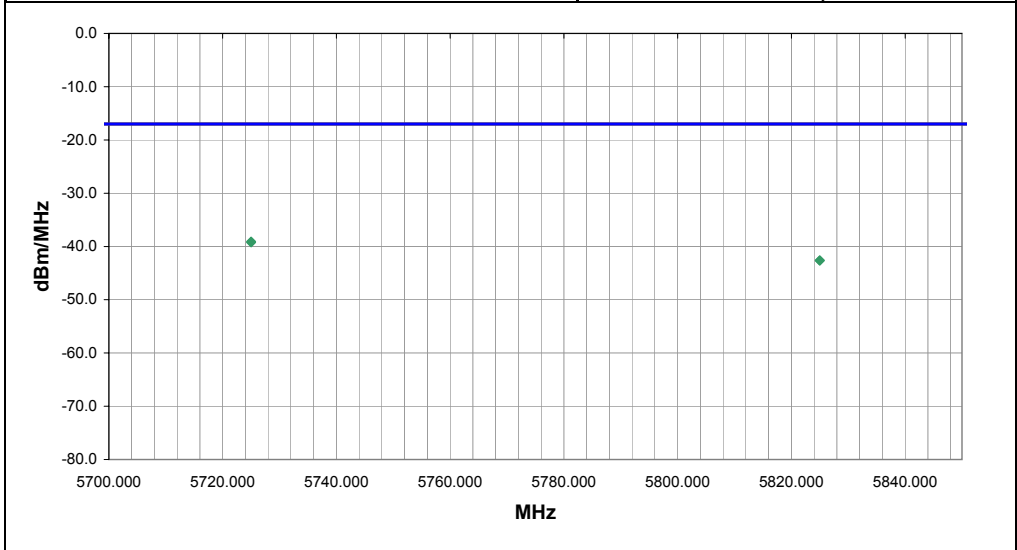
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, See comments for channel.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	7

Other

Holly Ashkanjehad
 Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5725.000	232.0	1.1	H-Horn	PK	-39.2	-17.0	-22.2	Channel 149
5725.000	176.0	1.0	V-Horn	PK	-39.1	-17.0	-22.1	Channel 149
5825.000	232.0	1.1	H-Horn	PK	-42.7	-17.0	-25.7	Channel 161
5825.000	171.0	1.0	V-Horn	PK	-42.6	-17.0	-25.6	Channel 161

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/09/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.209(a)
Method:	ANSI C63.4
Year:	2000
Year:	2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 64.

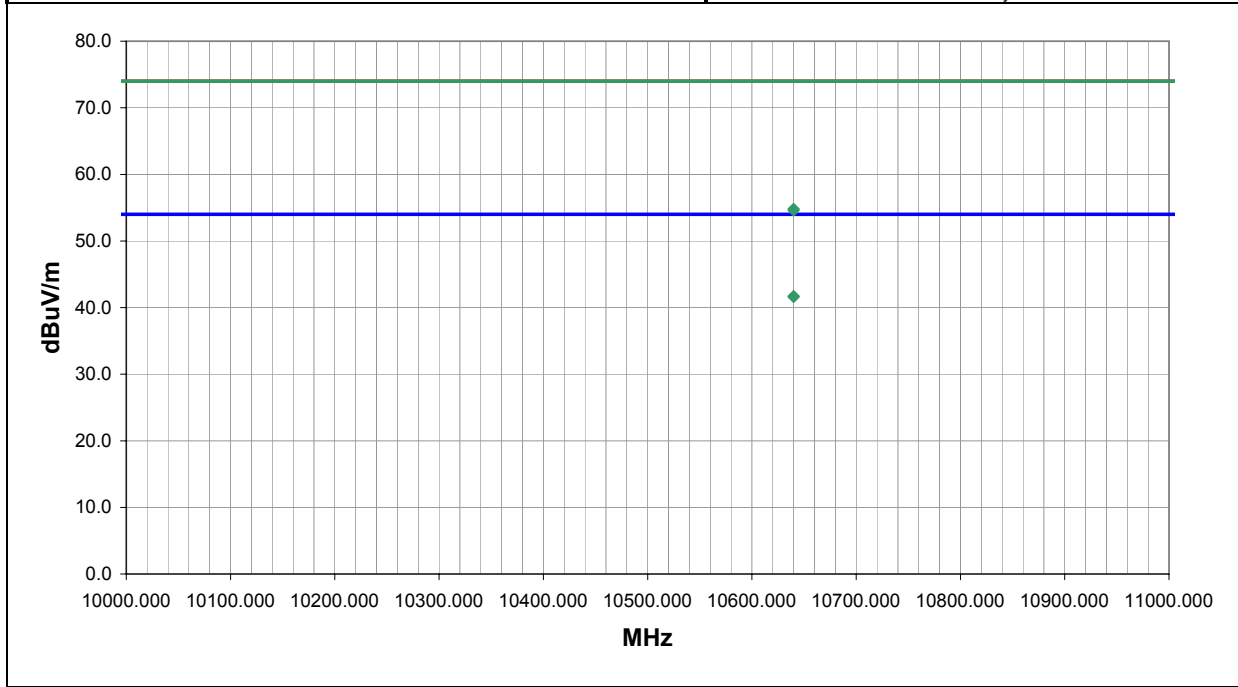
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	3

Other

Holly Ashkannejhad
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)
10640.000	24.0	17.7	104.0	1.2	3.0	0.0	V-Horn	AV	0.0	41.7	54.0	-12.3
10640.000	23.9	17.7	235.0	1.3	3.0	0.0	H-Horn	AV	0.0	41.6	54.0	-12.4
10640.000	37.1	17.7	235.0	1.3	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2
10640.000	36.9	17.7	104.0	1.2	3.0	0.0	V-Horn	PK	0.0	54.6	74.0	-19.4

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/09/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.407(b) Spurious Radiated Emissions	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 64.

DEVIATIONS FROM TEST STANDARD

No deviations.

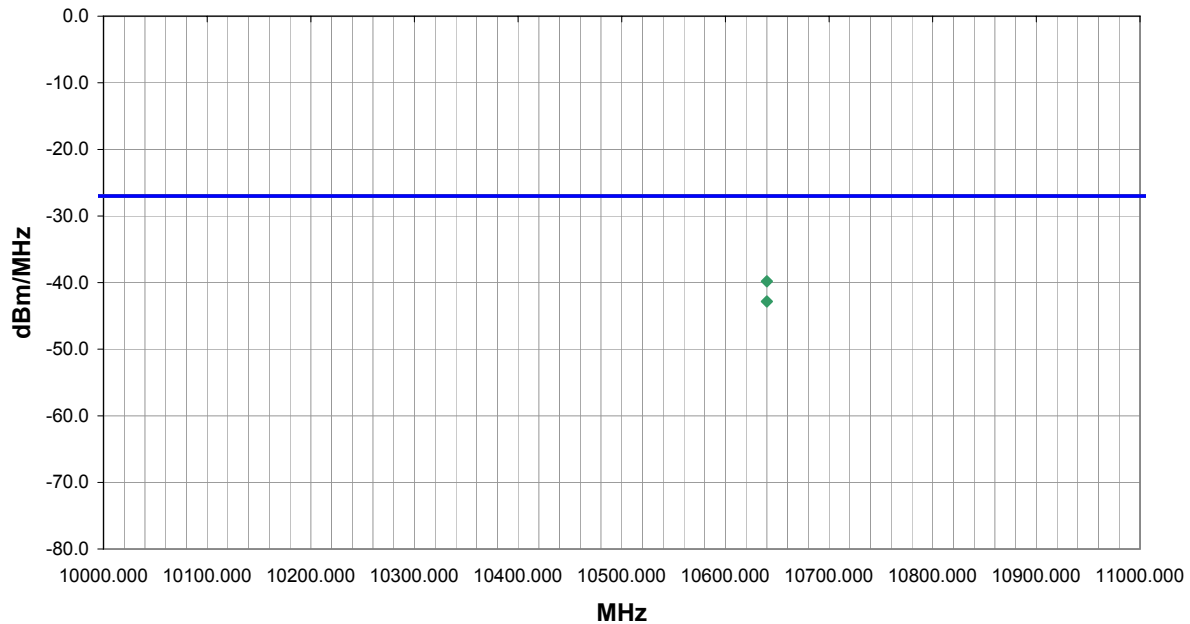
RESULTS

Pass	Run #	3
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Other

Holly Ashkannejhad

Tested By:



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)
10640.000	235.0	1.3	H-Horn	PK	-39.8	-27.0	-12.8
10640.000	104.0	1.2	V-Horn	PK	-42.8	-27.0	-15.8

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC 15.209(a)	Year: 2000
Method: ANSI C63.4	Year: 2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps. See comments for Channel

DEVIATIONS FROM TEST STANDARD

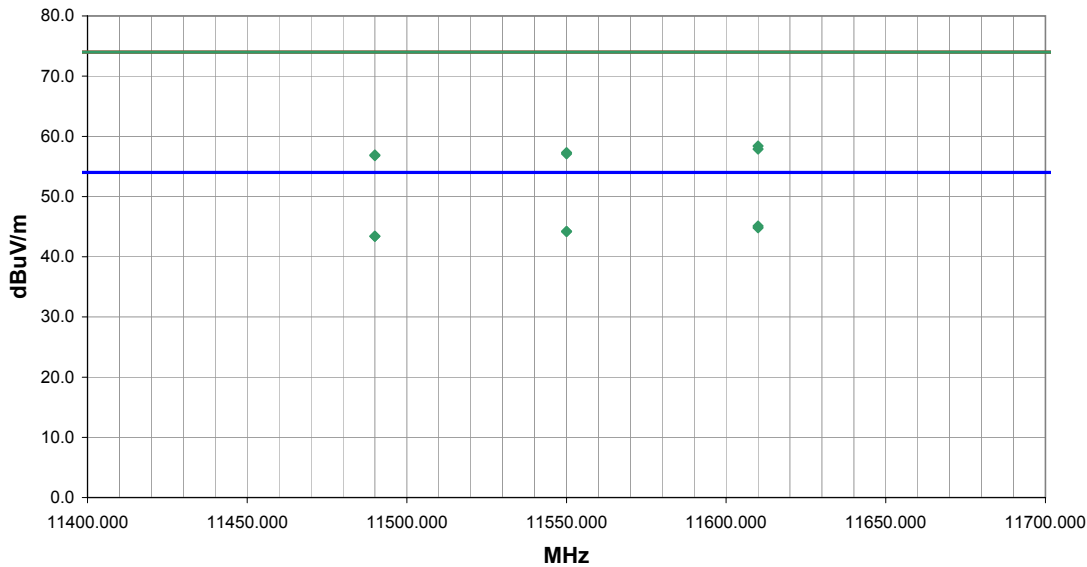
No deviations.

RESULTS

Pass	Run # 11
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Other

Holly Ashkannejhad
 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
11610.000	25.3	19.8	146.0	1.6	3.0	0.0	V-Horn	AV	0.0	45.1	54.0	-8.9	Channel 161
11610.000	25.0	19.8	338.0	1.2	3.0	0.0	H-Horn	AV	0.0	44.8	54.0	-9.2	Channel 161
11550.000	24.6	19.6	78.0	1.3	3.0	0.0	H-Horn	AV	0.0	44.2	54.0	-9.8	Channel 155
11550.000	24.6	19.6	17.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.2	54.0	-9.8	Channel 155
11490.000	23.8	19.6	251.0	1.3	3.0	0.0	H-Horn	AV	0.0	43.4	54.0	-10.6	Channel 149
11490.000	23.8	19.6	291.0	2.9	3.0	0.0	V-Horn	AV	0.0	43.4	54.0	-10.6	Channel 149
11610.000	38.6	19.8	146.0	1.6	3.0	0.0	V-Horn	PK	0.0	58.4	74.0	-15.6	Channel 161
11610.000	38.1	19.8	338.0	1.2	3.0	0.0	H-Horn	PK	0.0	57.9	74.0	-16.1	Channel 161
11550.000	37.7	19.6	17.0	1.2	3.0	0.0	V-Horn	PK	0.0	57.3	74.0	-16.7	Channel 155
11550.000	37.5	19.6	78.0	1.3	3.0	0.0	H-Horn	PK	0.0	57.1	74.0	-16.9	Channel 155
11490.000	37.3	19.6	291.0	2.9	3.0	0.0	V-Horn	PK	0.0	56.9	74.0	-17.1	Channel 149
11490.000	37.2	19.6	251.0	1.3	3.0	0.0	H-Horn	PK	0.0	56.8	74.0	-17.2	Channel 149

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

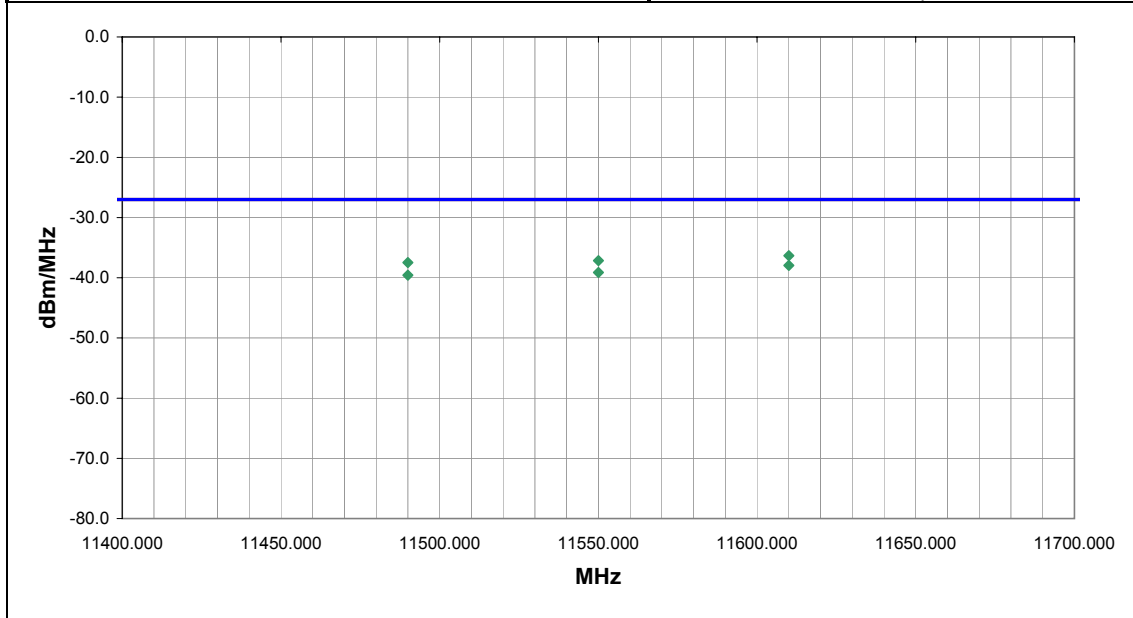
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps. See comments for Channel

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	11

Other


 Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
11610.000	146.0	1.6	V-Horn	PK	-37.9	-27.0	-10.9	Channel 161
11610.000	338.0	1.2	H-Horn	PK	-36.3	-27.0	-9.3	Channel 161
11550.000	17.0	1.2	V-Horn	PK	-39.1	-27.0	-12.1	Channel 155
11550.000	78.0	1.3	H-Horn	PK	-37.1	-27.0	-10.1	Channel 155
11490.000	291.0	2.9	V-Horn	PK	-39.6	-27.0	-12.6	Channel 149
11490.000	251.0	1.3	H-Horn	PK	-37.5	-27.0	-10.5	Channel 149

RADIATED EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/09/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC 15.209(a)	Year: 2003
Method: ANSI C63.4	Year: 2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, See comments for channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

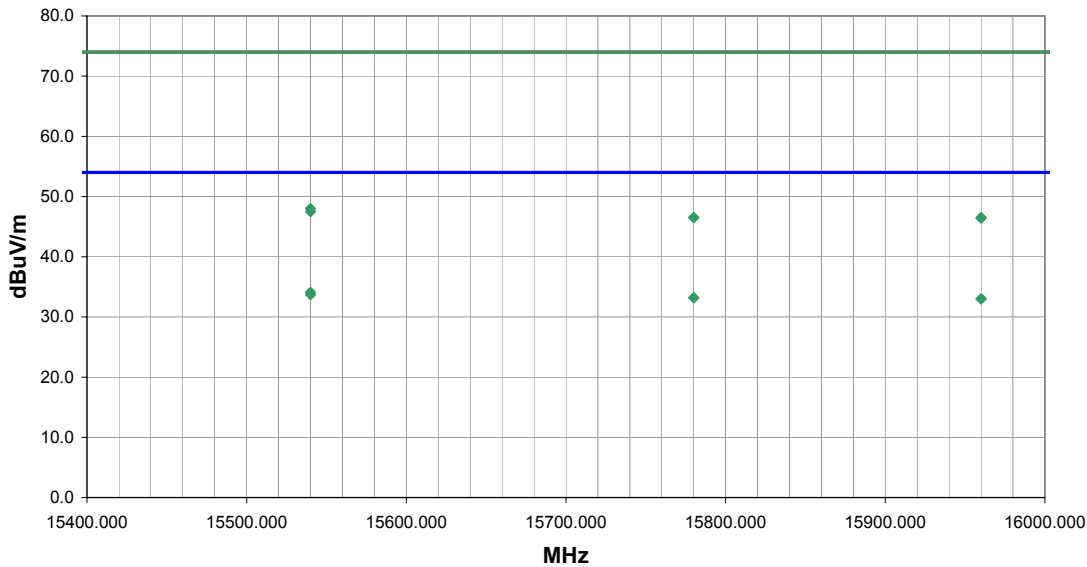
RESULTS

Pass	Run #
	4

Other

Holly Ashkannejhad

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
15540.000	26.8	7.3	222.0	3.6	3.0	0.0	V-Horn	AV	0.0	34.1	54.0	-19.9	Channel 36
15540.000	26.4	7.3	235.0	1.9	3.0	0.0	H-Horn	AV	0.0	33.7	54.0	-20.3	Channel 36
15780.000	26.3	6.9	90.0	2.6	3.0	0.0	V-Horn	AV	0.0	33.2	54.0	-20.8	Channel 52
15780.000	26.3	6.9	250.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.2	54.0	-20.8	Channel 52
15960.000	26.4	6.6	52.0	2.4	3.0	0.0	V-Horn	AV	0.0	33.0	54.0	-21.0	Channel 64
15960.000	26.4	6.6	106.0	2.5	3.0	0.0	H-Horn	AV	0.0	33.0	54.0	-21.0	Channel 64
15540.000	40.7	7.3	235.0	1.9	3.0	0.0	H-Horn	PK	0.0	48.0	74.0	-26.0	Channel 36
15540.000	40.2	7.3	222.0	3.6	3.0	0.0	V-Horn	PK	0.0	47.5	74.0	-26.5	Channel 36
15960.000	39.9	6.6	106.0	2.5	3.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5	Channel 64
15780.000	39.6	6.9	250.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5	Channel 52
15780.000	39.6	6.9	90.0	2.6	3.0	0.0	V-Horn	PK	0.0	46.5	74.0	-27.5	Channel 52
15960.000	39.8	6.6	52.0	2.4	3.0	0.0	V-Horn	PK	0.0	46.4	74.0	-27.6	Channel 64

Apparent Power Data Sheet

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/09/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.407(b) Spurious Radiated Emissions	Year:	2000
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, See comments for channel.

DEVIATIONS FROM TEST STANDARD

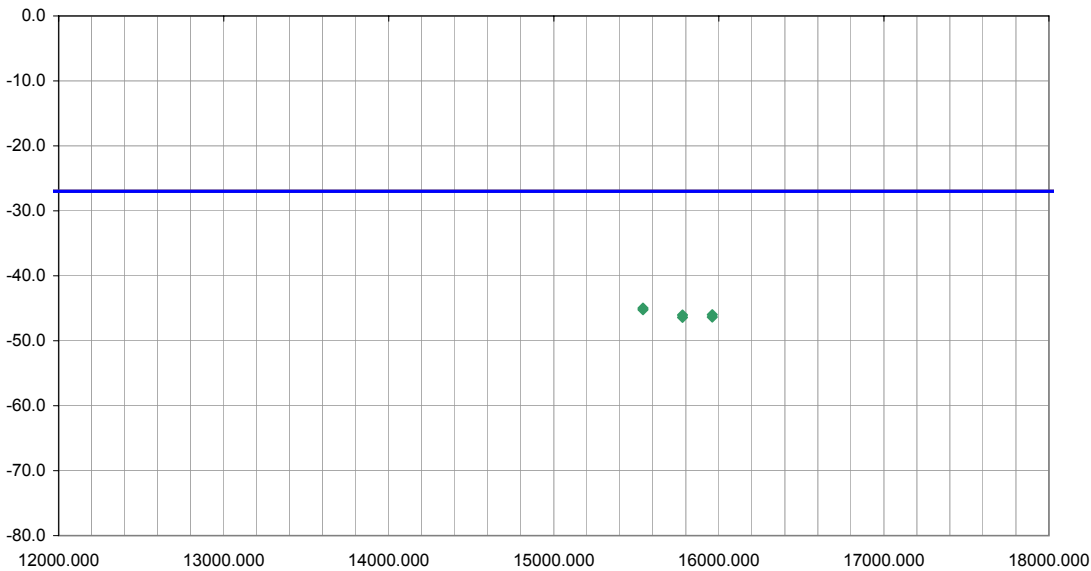
No deviations.

RESULTS

Pass	Run #	4
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Other

Holly Ashkannejhad
 Tested By:



Freq (MHz)		Azimuth (degrees)	Height (meters)		Polarity	Detector		EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
15540.000		235.0	1.9		H-Horn	PK		-45.0	-27.0	-18.0	Channel 36
15540.000		222.0	3.6		V-Horn	PK		-45.2	-27.0	-18.2	Channel 36
15960.000		52.0	2.4		V-Horn	PK		-46.0	-27.0	-19.0	Channel 64
15780.000		90.0	2.6		V-Horn	PK		-46.0	-27.0	-19.0	Channel 52
15960.000		106.0	2.5		H-Horn	PK		-46.4	-27.0	-19.4	Channel 64
15780.000		250.0	1.3		H-Horn	PK		-46.4	-27.0	-19.4	Channel 52

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/10/04
Customer:	Intermec Technologies Corporation	Temperature:	79
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.209(a)
Method:	ANSI C63.4
Year:	2003
Year:	2001

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
 Radio in Host PC.

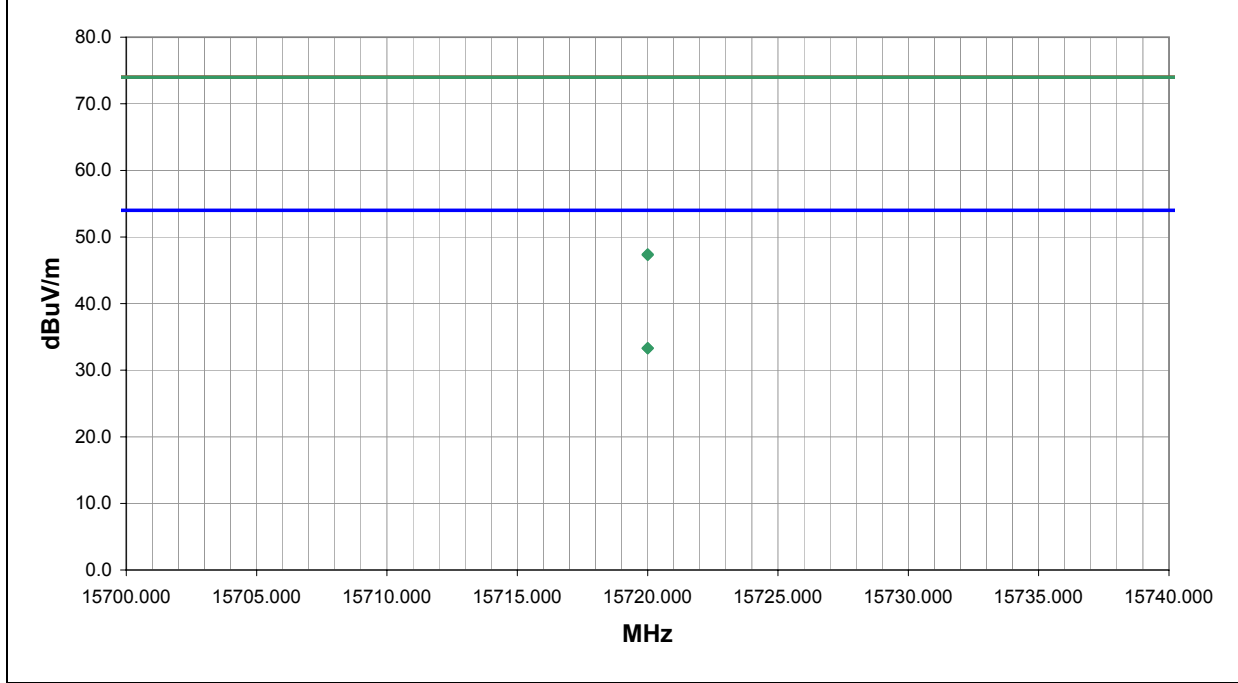
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, Channel 48

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	10

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)
15720.000	26.3	7.0	86.0	1.4	3.0	0.0	H-Horn	AV	0.0	33.3	54.0	-20.7
15720.000	26.3	7.0	50.0	3.5	3.0	0.0	V-Horn	AV	0.0	33.3	54.0	-20.7
15720.000	40.4	7.0	50.0	3.5	3.0	0.0	V-Horn	PK	0.0	47.4	74.0	-26.6
15720.000	40.3	7.0	86.0	1.4	3.0	0.0	H-Horn	PK	0.0	47.3	74.0	-26.7

Apparent Power Data Sheet

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/10/04
Customer:	Intermec Technologies Corporation	Temperature:	79
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.407(b) Spurious Radiated Emissions	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 48

DEVIATIONS FROM TEST STANDARD

No deviations.

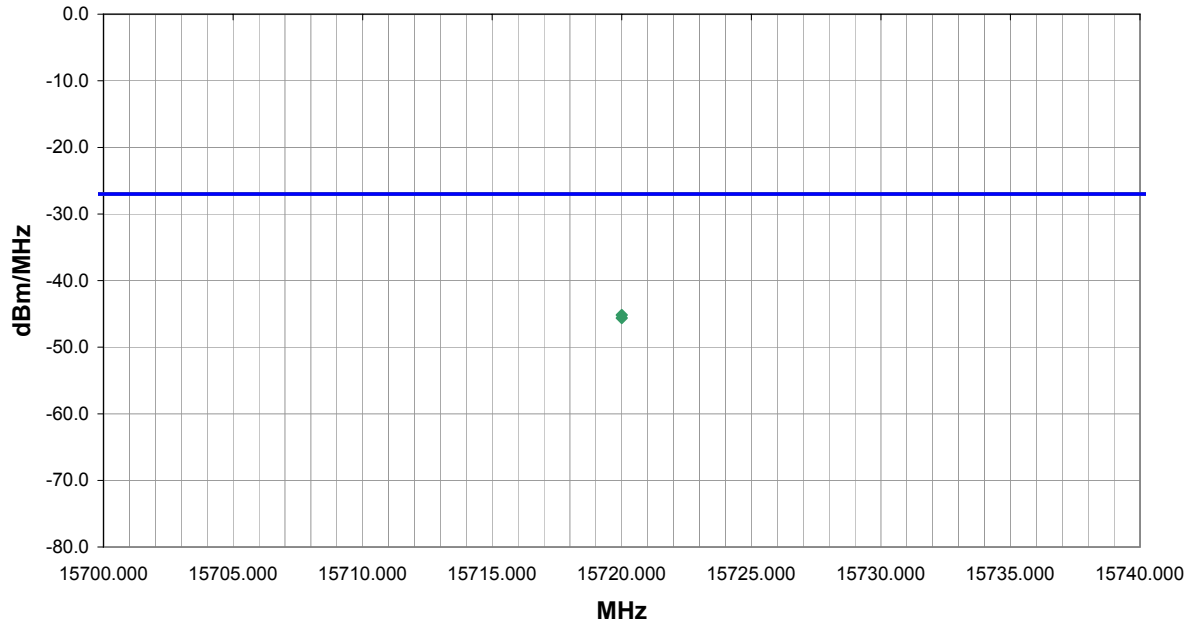
RESULTS

Pass	Run #	10
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Other



Tested By:



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)
15720.000	50.0	3.5	V-Horn	PK	-45.2	-27.0	-18.2
15720.000	86.0	1.4	H-Horn	PK	-45.6	-27.0	-18.6

Apparent Power Data Sheet

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/09/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

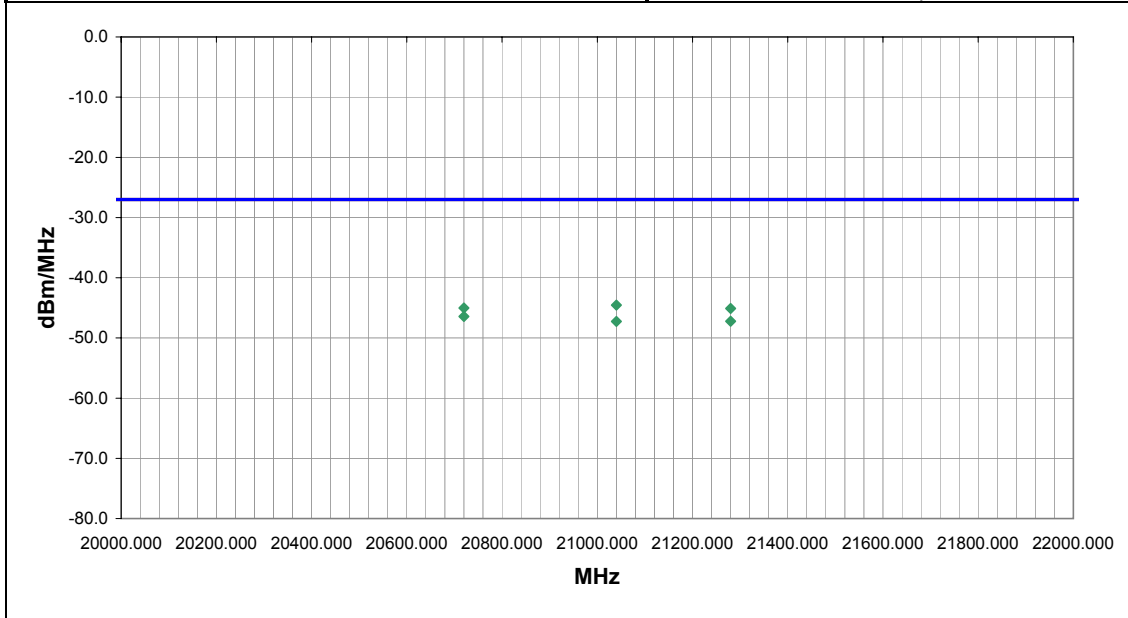
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, See comments for channel.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	2

Other


 Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
21040.000	-1.0	1.0	V-High Horr	PK	-44.5	-27.0	-17.5	Channel 52
20720.000	-1.0	1.1	V-High Horr	PK	-45.0	-27.0	-18.0	Channel 36
21280.000	360.0	1.0	V-High Horr	PK	-45.1	-27.0	-18.1	Channel 64
20720.000	360.0	1.1	H-High Horr	PK	-46.4	-27.0	-19.4	Channel 36
21280.000	-1.0	1.1	H-High Horr	PK	-47.2	-27.0	-20.2	Channel 64
21040.000	360.0	1.1	H-High Horr	PK	-47.3	-27.0	-20.3	Channel 52

RADIATED EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/09/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.209(a)	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

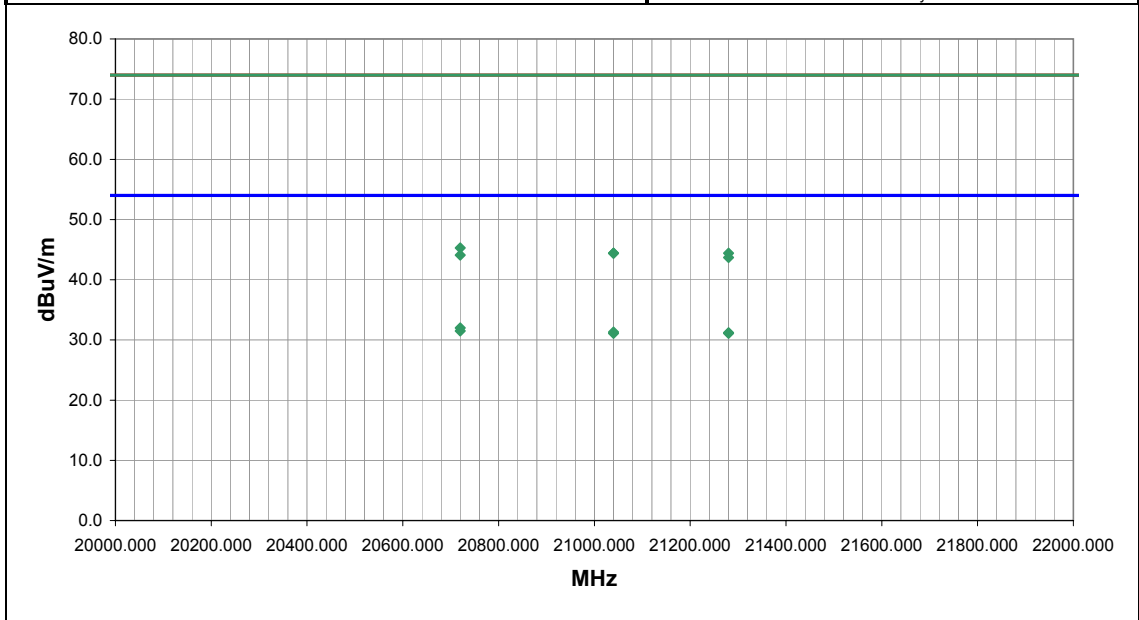
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps. See comments for channel.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	2

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
20720.000	23.2	8.8	360.0	1.1	3.0	0.0	+High Horr	AV	0.0	32.0	54.0	-22.0	Channel 36
20720.000	22.7	8.8	-1.0	1.1	3.0	0.0	v-High Horr	AV	0.0	31.5	54.0	-22.5	Channel 36
21040.000	22.7	8.6	-1.0	1.0	3.0	0.0	v-High Horr	AV	0.0	31.3	54.0	-22.7	Channel 52
21280.000	22.6	8.6	360.0	1.0	3.0	0.0	v-High Horr	AV	0.0	31.2	54.0	-22.8	Channel 64
21040.000	22.5	8.6	360.0	1.1	3.0	0.0	+High Horr	AV	0.0	31.1	54.0	-22.9	Channel 52
21280.000	22.5	8.6	-1.0	1.1	3.0	0.0	+High Horr	AV	0.0	31.1	54.0	-22.9	Channel 64
20720.000	36.5	8.8	360.0	1.1	3.0	0.0	+High Horr	PK	0.0	45.3	74.0	-28.7	Channel 36
21040.000	35.8	8.6	360.0	1.1	3.0	0.0	+High Horr	PK	0.0	44.4	74.0	-29.6	Channel 52
21040.000	35.8	8.6	-1.0	1.0	3.0	0.0	v-High Horr	PK	0.0	44.4	74.0	-29.6	Channel 52
21280.000	35.8	8.6	-1.0	1.1	3.0	0.0	+High Horr	PK	0.0	44.4	74.0	-29.6	Channel 64
20720.000	35.3	8.8	-1.0	1.1	3.0	0.0	v-High Horr	PK	0.0	44.1	74.0	-29.9	Channel 36
21280.000	35.1	8.6	360.0	1.0	3.0	0.0	v-High Horr	PK	0.0	43.7	74.0	-30.3	Channel 64

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/10/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.209(a)
Method:	ANSI C63.4
Year:	2003
Year:	2001

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

Radio in Host PC.

EUT OPERATING MODES

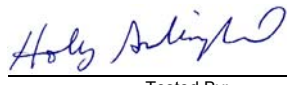
Transmitting 802.11(a), 6Mbps, Channel 48

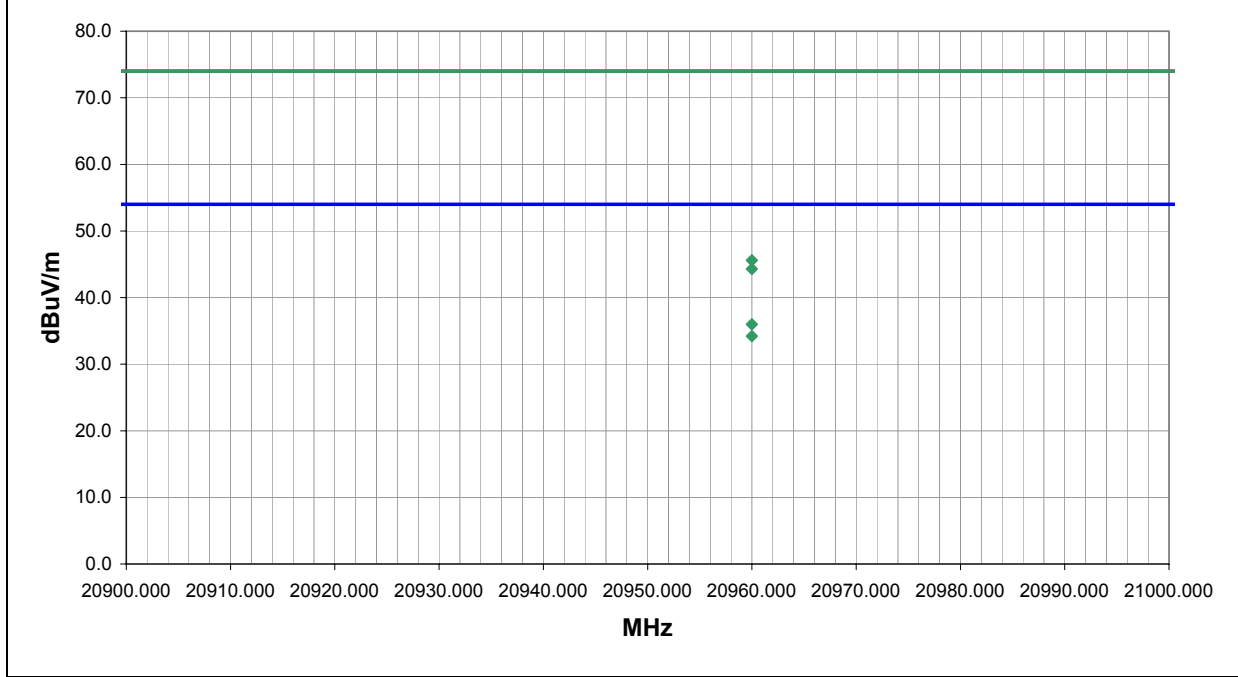
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	8

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)
20960.000	27.4	8.6	185.0	1.1	3.0	0.0	-High Horr	AV	0.0	36.0	54.0	-18.0
20960.000	25.6	8.6	190.0	1.1	3.0	0.0	-High Horr	AV	0.0	34.2	54.0	-19.8
20960.000	37.0	8.6	185.0	1.1	3.0	0.0	-High Horr	PK	0.0	45.6	74.0	-28.4
20960.000	35.7	8.6	190.0	1.1	3.0	0.0	-High Horr	PK	0.0	44.3	74.0	-29.7

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/10/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.407(b) Spurious Radiated Emissions	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 48

DEVIATIONS FROM TEST STANDARD

No deviations.

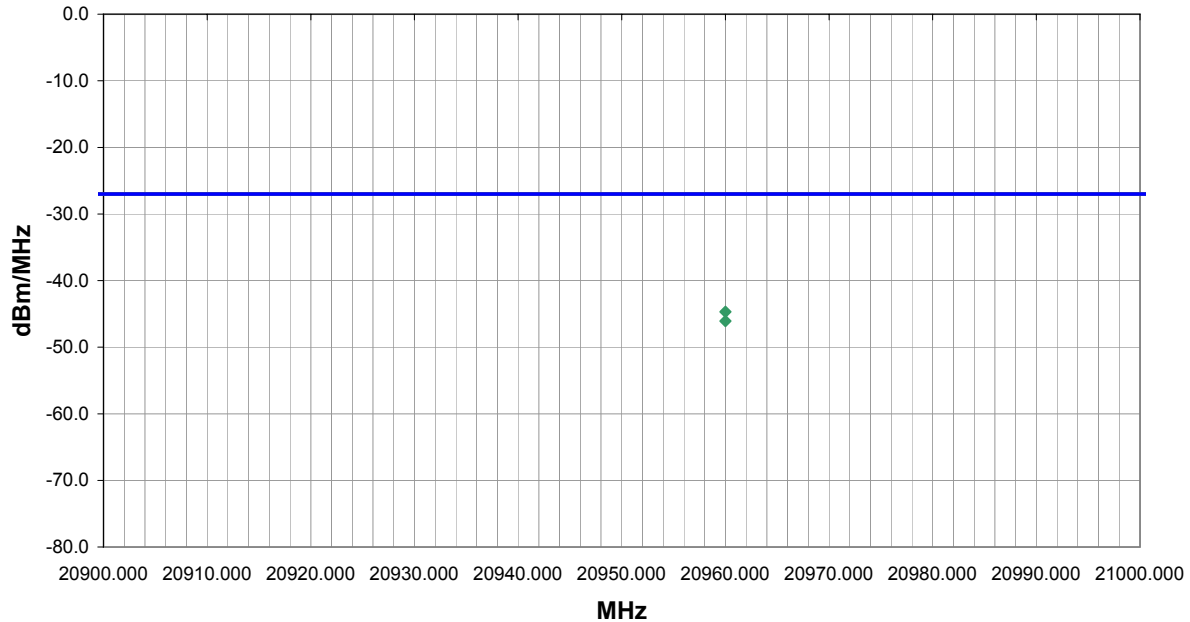
RESULTS

Pass	Run #	8
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Other

Holly Ashkannejhad

Tested By:



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)
20960.000	185.0	1.1	H-High Horr	PK	-46.1	-27.0	-19.1
20960.000	190.0	1.1	V-High Horr	PK	-44.7	-27.0	-17.7

RADIATED EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC 15.209(a)	Year: 2000
Method: ANSI C63.4	Year: 2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps. See comments for channel.

DEVIATIONS FROM TEST STANDARD

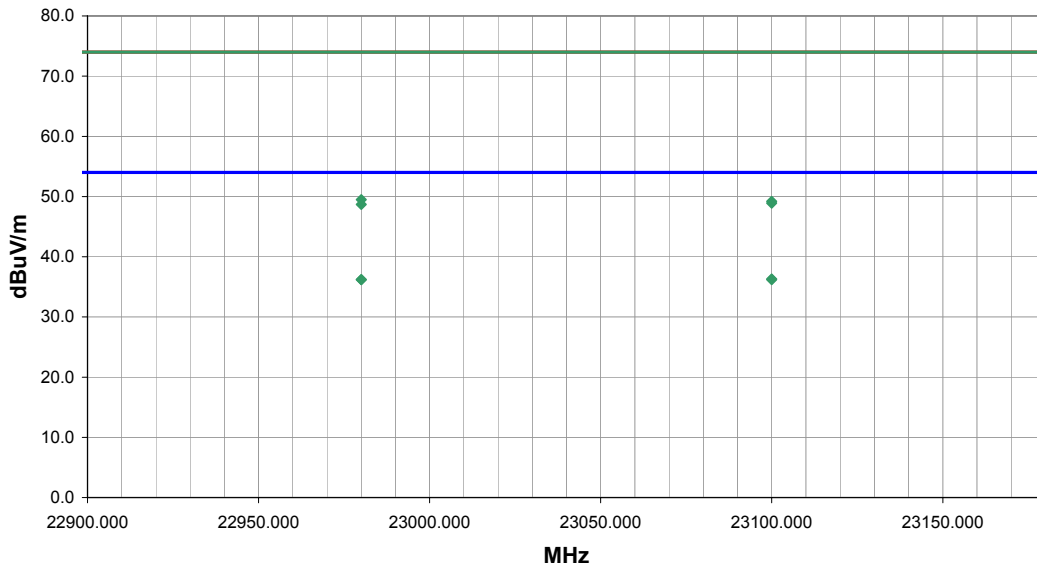
No deviations.

RESULTS

Pass	Run #
	9

Other

Holly Ashkannejhad
 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
23100.000	25.9	10.4	360.0	1.1	3.0	0.0	+High Horr	AV	0.0	36.3	54.0	-17.7	Channel 155
22980.000	25.8	10.4	360.0	1.0	3.0	0.0	-High Horr	AV	0.0	36.2	54.0	-17.8	Channel 149
23100.000	25.8	10.4	-1.0	1.0	3.0	0.0	+High Horr	AV	0.0	36.2	54.0	-17.8	Channel 155
22980.000	39.1	10.4	-1.0	1.0	3.0	0.0	+High Horr	PK	0.0	49.5	74.0	-24.5	Channel 149
23100.000	38.8	10.4	360.0	1.1	3.0	0.0	+High Horr	PK	0.0	49.2	74.0	-24.8	Channel 155
23100.000	38.5	10.4	-1.0	1.0	3.0	0.0	-High Horr	PK	0.0	48.9	74.0	-25.1	Channel 155
22980.000	38.3	10.4	360.0	1.0	3.0	0.0	-High Horr	PK	0.0	48.7	74.0	-25.3	Channel 149

Apparent Power Data Sheet

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b)Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

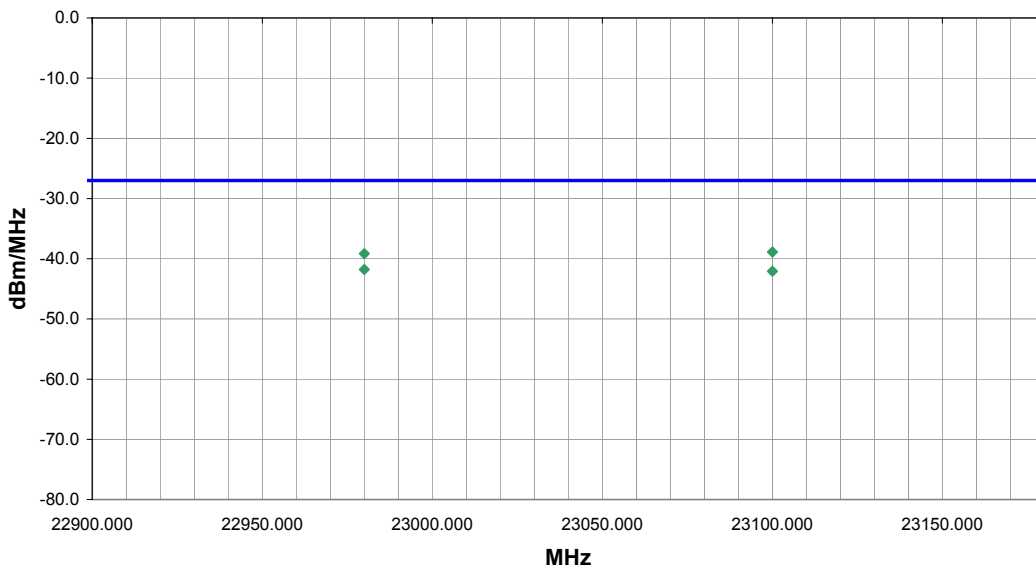
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps. See comments for channel.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	9

Other


 Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
22980.000	-1.0	1.0	H-High Horr	PK	-41.8	-27.0	-14.8	Channel 149
23100.000	360.0	1.1	H-High Horr	PK	-42.1	-27.0	-15.1	Channel 155
23100.000	-1.0	1.0	V-High Horr	PK	-38.9	-27.0	-11.9	Channel 155
22980.000	360.0	1.0	V-High Horr	PK	-39.1	-27.0	-12.1	Channel 149

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC 15.209(a)	Year: 2000
Method: ANSI C63.4	Year: 2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 36Mbps, See comments for Channel

DEVIATIONS FROM TEST STANDARD

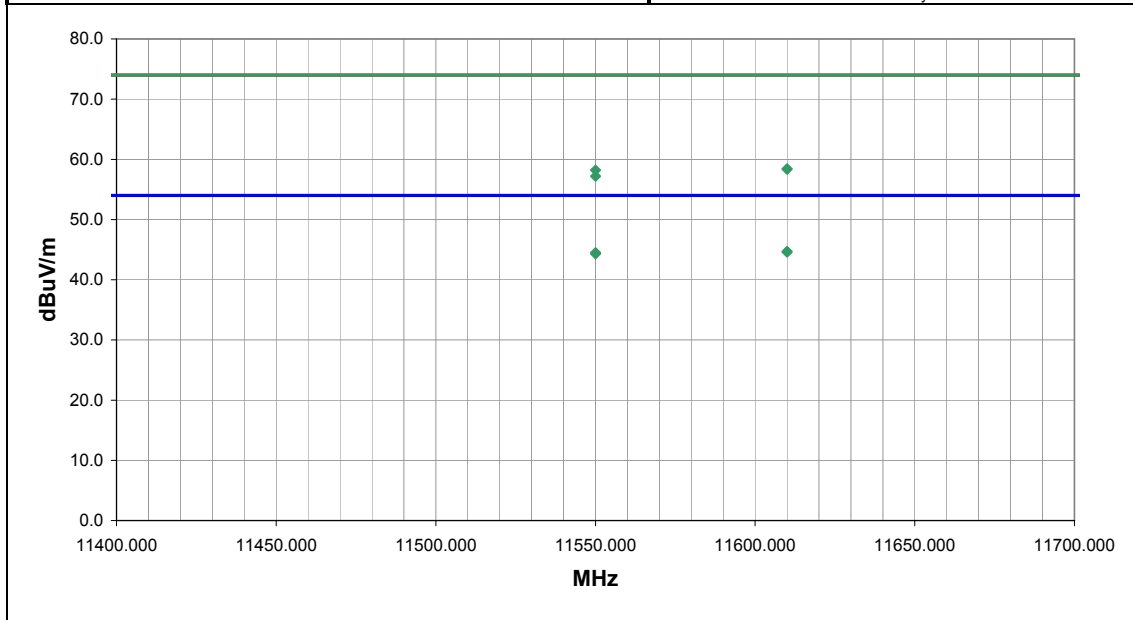
No deviations.

RESULTS

Pass	Run # 12
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Other

Holly Ashkannejhad
 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
11610.000	25.2	19.5	28.0	1.1	3.0	0.0	H-Horn	AV	0.0	44.7	54.0	-9.3	Channel 161
11610.000	25.1	19.5	333.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.6	54.0	-9.4	Channel 161
11550.000	25.2	19.3	295.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.5	54.0	-9.5	Channel 155
11550.000	25.0	19.3	237.0	1.1	3.0	0.0	H-Horn	AV	0.0	44.3	54.0	-9.7	Channel 155
11610.000	38.9	19.5	28.0	1.1	3.0	0.0	H-Horn	PK	0.0	58.4	74.0	-15.6	Channel 161
11610.000	38.9	19.5	333.0	1.0	3.0	0.0	V-Horn	PK	0.0	58.4	74.0	-15.6	Channel 161
11550.000	38.9	19.3	237.0	1.1	3.0	0.0	H-Horn	PK	0.0	58.2	74.0	-15.8	Channel 155
11550.000	37.9	19.3	295.0	1.2	3.0	0.0	V-Horn	PK	0.0	57.2	74.0	-16.8	Channel 155

Apparent Power Data Sheet

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

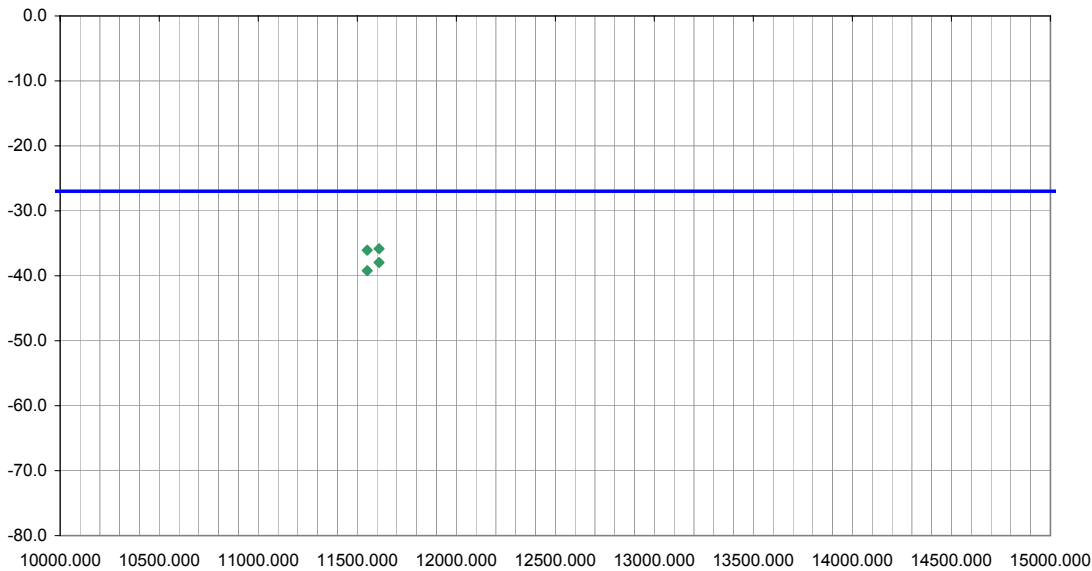
EUT OPERATING MODES
 Transmitting 802.11(a), 36Mbps, See comments for Channel

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	12

Other


 Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
11610.000	28.0	1.1	H-Horn	PK	-35.8	-27.0	-8.8	Channel 161
11610.000	333.0	1.0	V-Horn	PK	-37.9	-27.0	-10.9	Channel 161
11550.000	237.0	1.1	H-Horn	PK	-36.0	-27.0	-9.0	Channel 155
11550.000	295.0	1.2	V-Horn	PK	-39.2	-27.0	-12.2	Channel 155

RADIATED EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC 15.209(a)	Year: 2000
Method: ANSI C63.4	Year: 2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 54Mbps, See comments for Channel

DEVIATIONS FROM TEST STANDARD

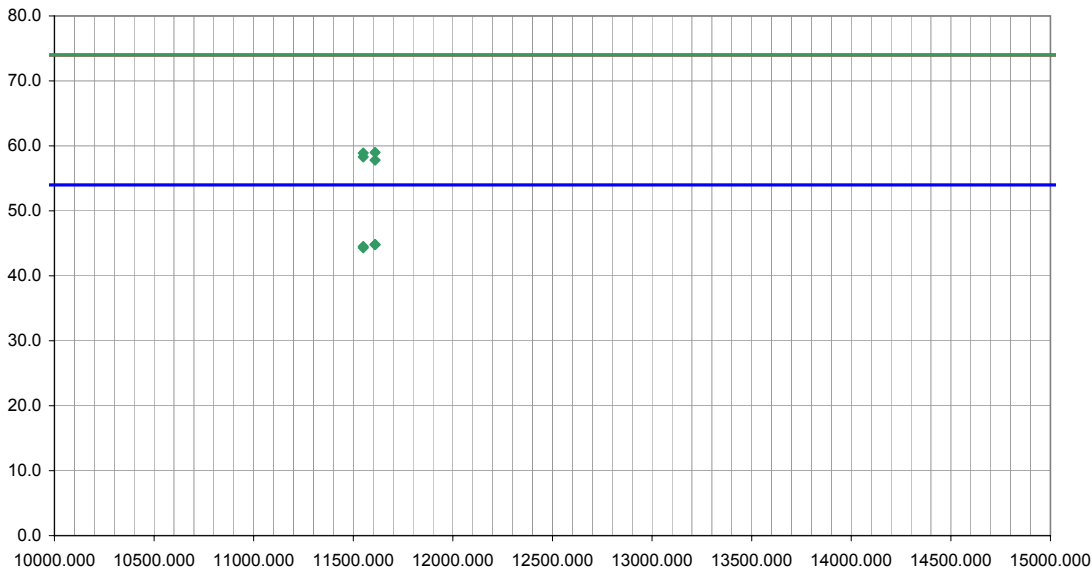
No deviations.

RESULTS

Pass	Run # 13
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Other

Holly Ashkannejhad
 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
11610.000	25.3	19.5	25.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.8	54.0	-9.2	Channel 161
11610.000	25.3	19.5	188.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.8	54.0	-9.2	Channel 161
11550.000	25.2	19.3	27.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.5	54.0	-9.5	Channel 155
11550.000	25.0	19.3	360.0	1.2	3.0	0.0	H-Horn	AV	0.0	44.3	54.0	-9.7	Channel 155
11610.000	39.5	19.5	25.0	1.0	3.0	0.0	V-Horn	PK	0.0	59.0	74.0	-15.0	Channel 161
11550.000	39.6	19.3	27.0	1.2	3.0	0.0	V-Horn	PK	0.0	58.9	74.0	-15.1	Channel 155
11550.000	39.0	19.3	360.0	1.2	3.0	0.0	H-Horn	PK	0.0	58.3	74.0	-15.7	Channel 155
11610.000	38.3	19.5	188.0	1.0	3.0	0.0	H-Horn	PK	0.0	57.8	74.0	-16.2	Channel 161

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

EUT OPERATING MODES
 Transmitting 802.11(a), 54Mbps, See comments for Channel

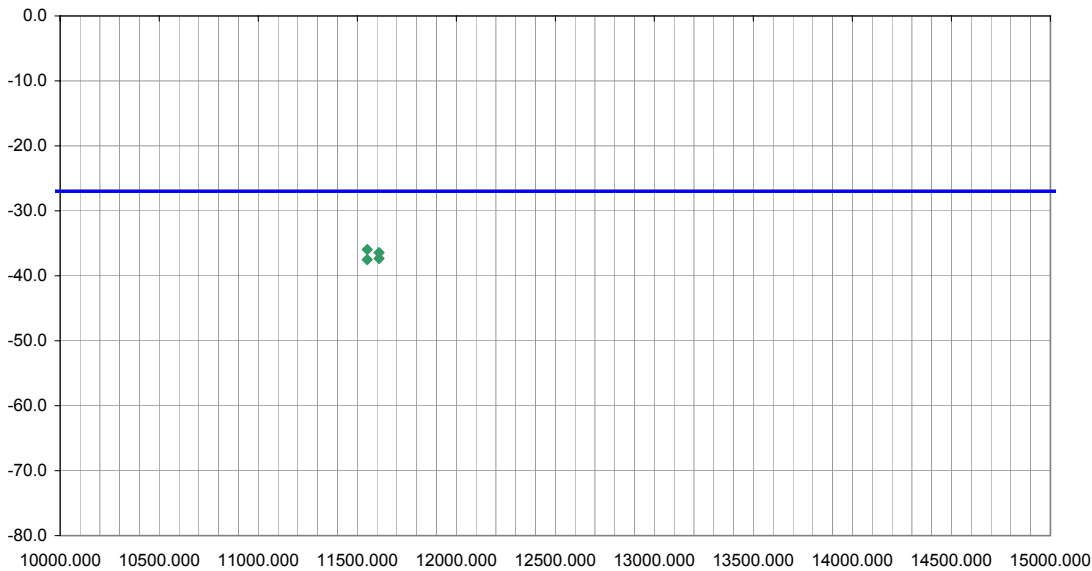
DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	13

Other



Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
11610.000	25.0	1.0	V-Horn	PK	-37.3	-27.0	-10.3	Channel 161
11550.000	27.0	1.2	V-Horn	PK	-37.5	-27.0	-10.5	Channel 155
11550.000	360.0	1.2	H-Horn	PK	-35.9	-27.0	-8.9	Channel 155
11610.000	188.0	1.0	H-Horn	PK	-36.4	-27.0	-9.4	Channel 161

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

EUT OPERATING MODES
 Transmitting 802.11(a), 36Mbps, See comments for Channel

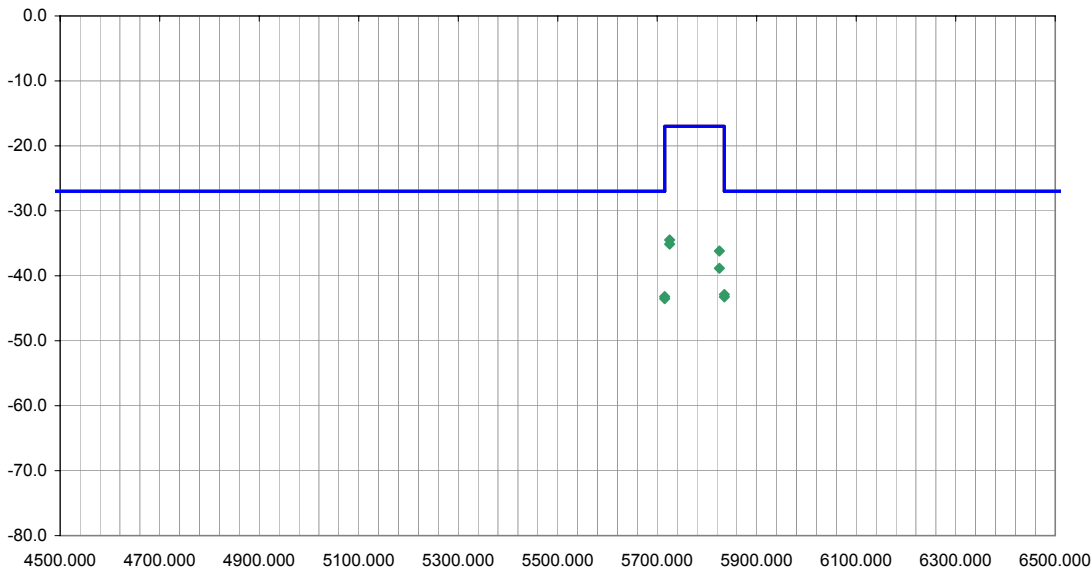
DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	14

Other



Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5725.000	165.0	1.1	V-Horn	PK	-34.5	-17.0	-17.5	Channel 149
5725.000	155.0	1.0	H-Horn	PK	-35.1	-17.0	-18.1	Channel 149
5825.000	163.0	1.1	V-Horn	PK	-36.2	-17.0	-19.2	Channel 161
5825.000	144.0	1.1	H-Horn	PK	-38.9	-17.0	-21.9	Channel 161
5835.000	163.0	1.1	V-Horn	PK	-42.9	-27.0	-15.9	Channel 161
5835.000	175.0	1.1	H-Horn	PK	-43.2	-27.0	-16.2	Channel 161
5715.000	148.0	1.0	H-Horn	PK	-43.5	-27.0	-16.5	Channel 149
5715.000	170.0	1.1	V-Horn	PK	-43.2	-27.0	-16.2	Channel 149

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

EUT OPERATING MODES
 Transmitting 802.11(a), 54Mbps, See comments for Channel

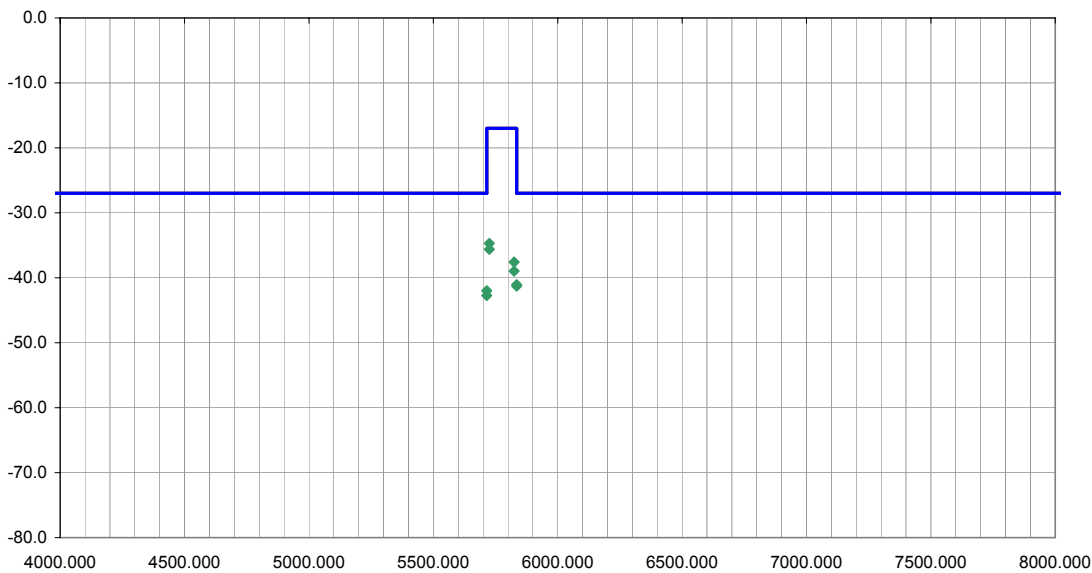
DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	15

Other



Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5725.000	162.0	1.1	V-Horn	PK	-34.7	-17.0	-17.7	Channel 149
5725.000	150.0	1.0	H-Horn	PK	-35.6	-17.0	-18.6	Channel 149
5825.000	151.0	1.1	V-Horn	PK	-37.6	-17.0	-20.6	Channel 161
5825.000	216.0	1.1	H-Horn	PK	-39.0	-17.0	-22.0	Channel 161
5835.000	168.0	1.1	H-Horn	PK	-41.0	-27.0	-14.0	Channel 161
5835.000	157.0	1.1	V-Horn	PK	-41.3	-27.0	-14.3	Channel 161
5715.000	170.0	1.1	V-Horn	PK	-42.0	-27.0	-15.0	Channel 149
5715.000	140.0	1.0	H-Horn	PK	-42.7	-27.0	-15.7	Channel 149

Apparent Power Data Sheet

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, See comments for Channel

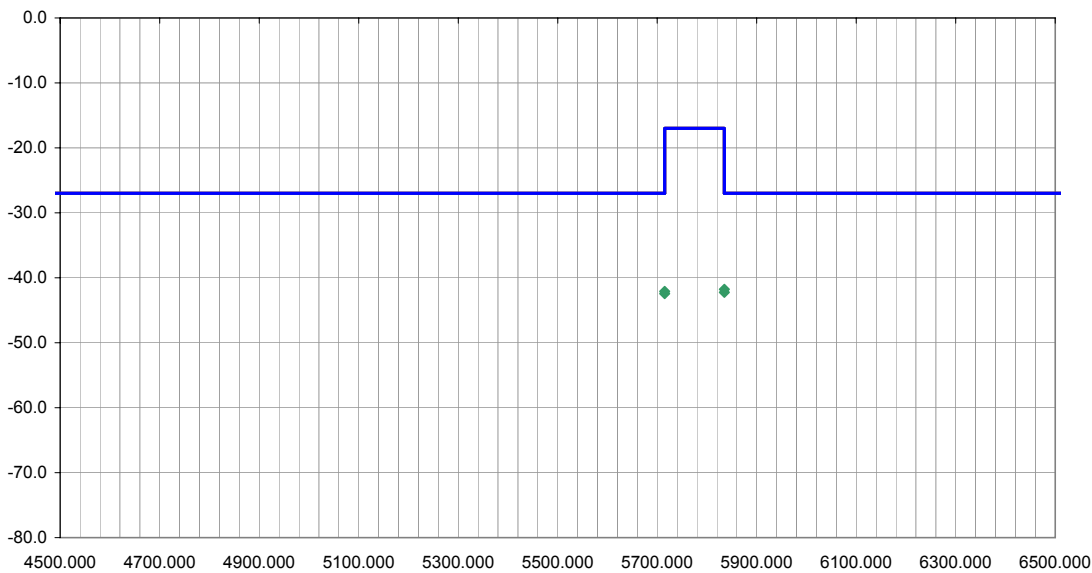
DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	16

Other



Tested By: _____



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5835.000	168.0	1.1	V-Horn	PK	-41.8	-17.0	-24.8	Channel 161
5835.000	186.0	1.1	H-Horn	PK	-42.2	-17.0	-25.2	Channel 161
5715.000	190.0	1.0	V-Horn	PK	-42.1	-17.0	-25.1	Channel 149
5715.000	162.0	1.1	H-Horn	PK	-42.4	-17.0	-25.4	Channel 149

RADIATED EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC 15.209(a)	Year: 2000
Method: ANSI C63.4	Year: 2001

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

Radio in Host PC.

EUT OPERATING MODES

Transmitting 802.11(a), 36Mbits, See comments for Channel

DEVIATIONS FROM TEST STANDARD

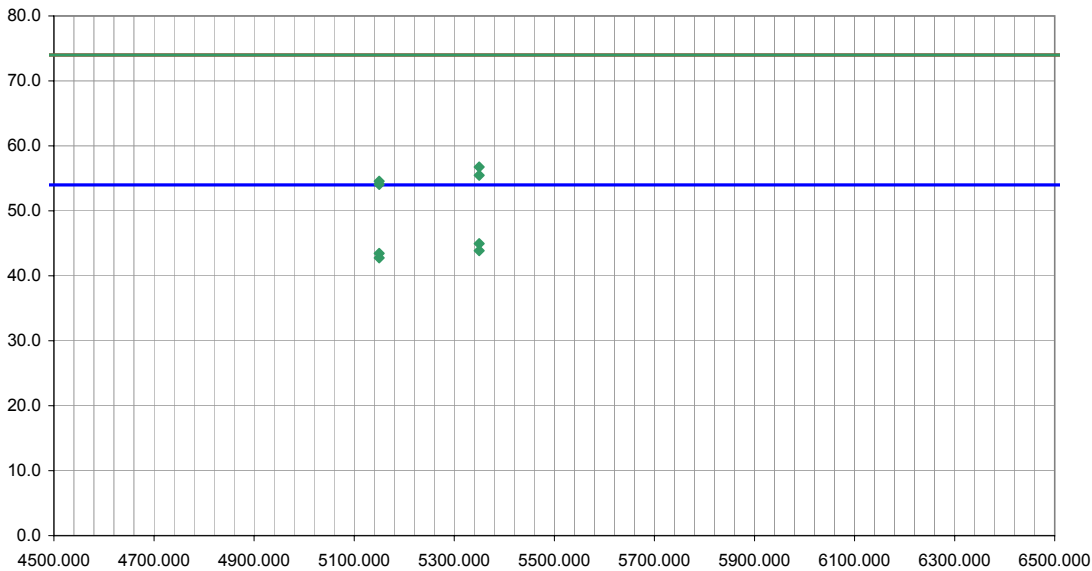
No deviations.

RESULTS

Pass	Run # 17
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Other

Holly Ashkannejhad
 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
5350.000	16.3	38.2	151.0	1.1	1.0	0.0	H-Horn	AV	-9.5	45.0	54.0	-9.0	Channel 64
5350.000	15.2	38.2	163.0	1.1	1.0	0.0	V-Horn	AV	-9.5	43.9	54.0	-10.1	Channel 64
5150.000	15.1	37.9	169.0	1.1	1.0	0.0	H-Horn	AV	-9.5	43.5	54.0	-10.5	Channel 36
5150.000	14.4	37.9	180.0	1.1	1.0	0.0	V-Horn	AV	-9.5	42.8	54.0	-11.2	Channel 36
5350.000	28.1	38.2	163.0	1.1	1.0	0.0	V-Horn	PK	-9.5	56.8	74.0	-17.2	Channel 64
5350.000	26.8	38.2	151.0	1.1	1.0	0.0	H-Horn	PK	-9.5	55.5	74.0	-18.5	Channel 64
5150.000	26.2	37.9	180.0	1.1	1.0	0.0	V-Horn	PK	-9.5	54.6	74.0	-19.4	Channel 36
5150.000	25.7	37.9	169.0	1.1	1.0	0.0	H-Horn	PK	-9.5	54.1	74.0	-19.9	Channel 36

Apparent Power Data Sheet

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissiosn	Year: 2003
Method: ANSI C63.4	Year: 2001

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	
Radio in Host PC.	

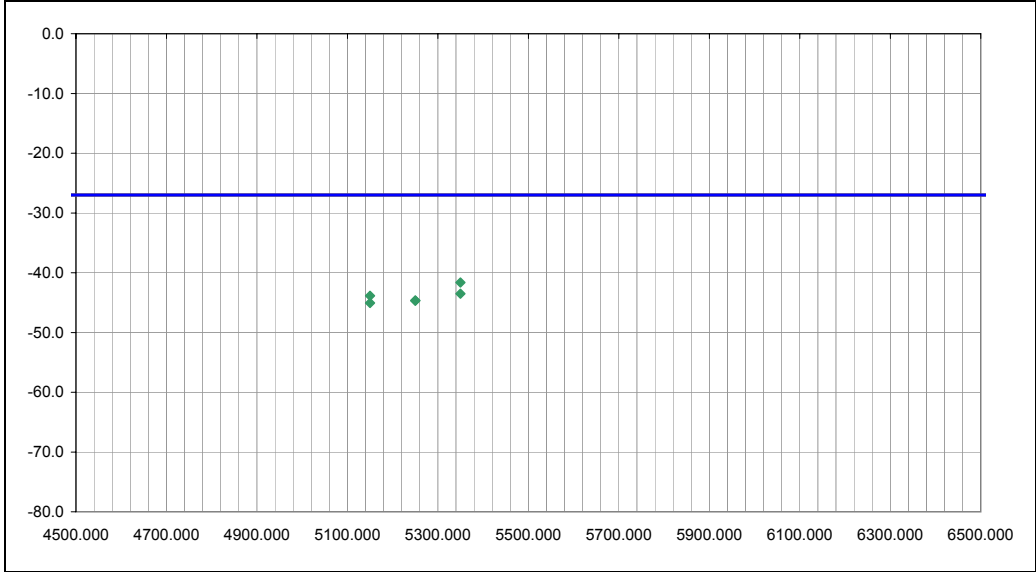
EUT OPERATING MODES	
Transmitting 802.11(a), 36Mbps, See comments for Channel	

DEVIATIONS FROM TEST STANDARD	
No deviations.	

RESULTS	Run #
Pass	18

Other

Holly Ashkannejhad
Tested By:



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5350.000	163.0	1.1	V-Horn	PK	-41.6	-27.0	-14.6	Channel 64
5350.000	151.0	1.1	H-Horn	PK	-43.5	-27.0	-16.5	Channel 64
5150.000	180.0	1.1	V-Horn	PK	-43.8	-27.0	-16.8	Channel 36
5250.000	162.0	1.1	H-Horn	PK	-44.7	-27.0	-17.7	Channel 52.
5150.000	169.0	1.1	H-Horn	PK	-45.1	-27.0	-18.1	Channel 36
5250.000	231.0	1.1	V-Horn	PK	-44.6	-27.0	-17.6	Channel 52.

NORTHWEST **EMC RADIATED EMISSIONS DATA SHEET** REV d14.3 09/20/2004

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.209(a)	Year: 2000
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

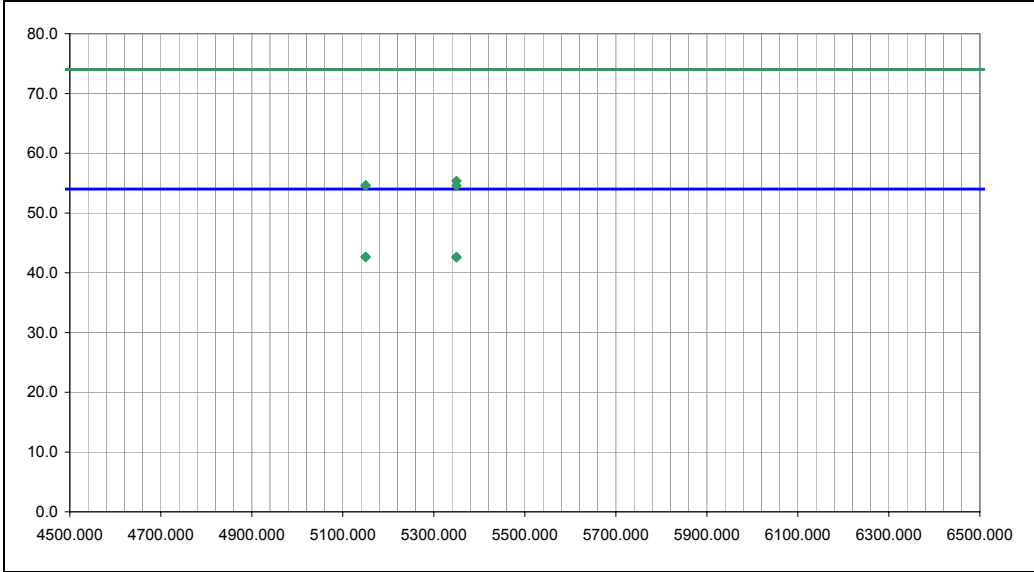
EUT OPERATING MODES
 Transmitting 802.11(a), 54Mbps, See comments for Channel

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	19

Other

Holly Ashkannejhad
 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
5150.000	14.3	37.9	168.0	1.1	1.0	0.0	V-Horn	AV	-9.5	42.7	54.0	-11.3	Channel 36
5350.000	14.0	38.2	224.0	1.1	1.0	0.0	V-Horn	AV	-9.5	42.7	54.0	-11.3	Channel 64
5150.000	14.3	37.9	168.0	1.1	1.0	0.0	H-Horn	AV	-9.5	42.7	54.0	-11.3	Channel 36
5350.000	13.9	38.2	189.0	1.1	1.0	0.0	H-Horn	AV	-9.5	42.6	54.0	-11.4	Channel 64
5350.000	26.7	38.2	224.0	1.1	1.0	0.0	V-Horn	PK	-9.5	55.4	74.0	-18.6	Channel 64
5150.000	26.3	37.9	168.0	1.1	1.0	0.0	V-Horn	PK	-9.5	54.7	74.0	-19.3	Channel 36
5150.000	26.2	37.9	168.0	1.1	1.0	0.0	H-Horn	PK	-9.5	54.6	74.0	-19.4	Channel 36
5350.000	25.9	38.2	189.0	1.1	1.0	0.0	H-Horn	PK	-9.5	54.6	74.0	-19.4	Channel 64

NORTHWEST **EMC** **Apparent Power Data Sheet** REV d14.3 09/20/2004

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number:	Date: 09/10/04
Customer: Intermec Technologies Corporation	Temperature: 79
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.407(b) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC.

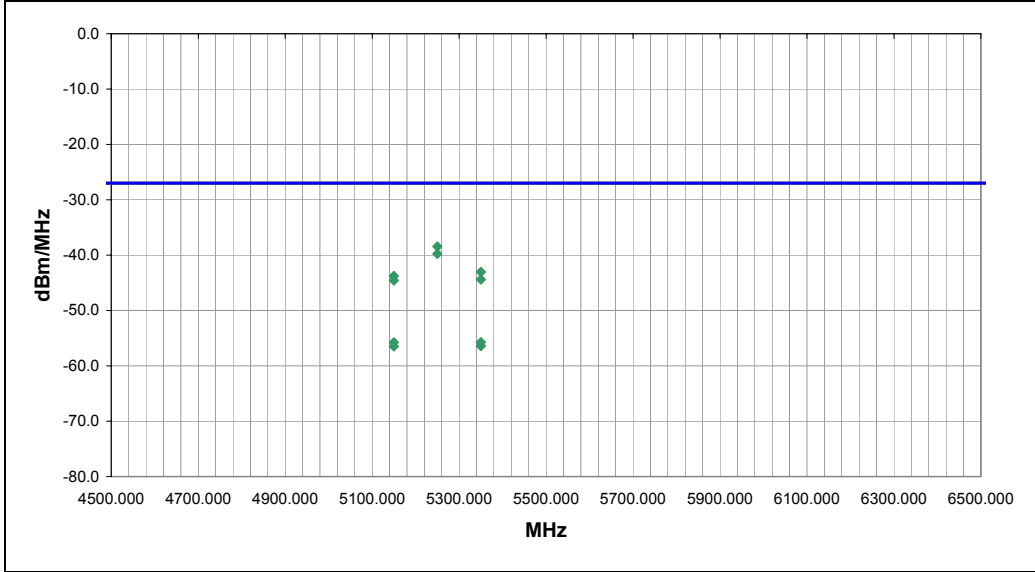
EUT OPERATING MODES
 Transmitting 802.11(a), 54Mbps, See comments for Channel

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	19

Other

Holly Ashkannejhad
 Tested By:



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5150.000	168.0	1.1	V-Horn	AV	-55.7	-27.0	-28.7	Channel 36
5350.000	224.0	1.1	V-Horn	AV	-55.7	-27.0	-28.7	Channel 64
5150.000	168.0	1.1	H-Horn	AV	-56.5	-27.0	-29.5	Channel 36
5350.000	189.0	1.1	H-Horn	AV	-56.4	-27.0	-29.4	Channel 64
5250.000	166.0	1.2	V-Horn	PK	-38.4	-27.0	-11.4	Channel 52.
5250.000	178.0	1.1	H-Horn	PK	-39.8	-27.0	-12.8	Channel 52.
5350.000	224.0	1.1	V-Horn	PK	-43.0	-27.0	-16.0	Channel 64
5150.000	168.0	1.1	V-Horn	PK	-43.7	-27.0	-16.7	Channel 36
5150.000	168.0	1.1	H-Horn	PK	-44.6	-27.0	-17.6	Channel 36
5350.000	189.0	1.1	H-Horn	PK	-44.4	-27.0	-17.4	Channel 64





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:

Ch 36 (5180 MHz)
Ch 40 (5200 MHz)
Ch 48 (5240 MHz)
Ch 52 (5260 MHz)
Ch 60 (5300 MHz)
Ch 64 (5320 MHz)
Ch 149 (5745 MHz)
Ch 155 (5775 MHz)
Ch 161 (5805 MHz)

Operating Modes Investigated:

Typical

Data Rates Investigated:

6 Mbit

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
Description			
The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio	Intermec	802MIAG-CV60	002-032
Host PC	Intermec Technologies Corporation	CV60	23100400645
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	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
DC Power Supply	Topward	TPS-2000	TPD	NCR	NA
Chamber, Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZH-32-2-2-H/AC	TBA	09/07/2004	12 mo
Single Phase Transformer	Staco Energy Products Co.	Type 2520C	SPT	NCR	NA
Multimeter	Tektronix	DMM912	MMH	05/27/2004	12 mo

Test Description

Requirements: Per 15.407(g), "Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual."

Configuration: 47 CFR 2.1055 was followed (also reference Ref Oct02 TCB Q&A rev2_clean1.doc emailed 12/09/02 to TCBs). The transmit frequency was set to the lowest, a medium, and the highest channels in each band. A direct connection was made between the RF output of the EUT and a spectrum analyzer. The spectrum analyzer had an internal precision frequency reference that far exceeded the frequency stability requirements of the EUT. Although the carrier was OFDM modulated, it was possible to zoom in and resolve the center frequency of the emission. An extremely accurate frequency measurement was made using a RBW and VBW = 10 Hz and a 1kHz SPAN.

Variations of Ambient Temperature:

The EUT was placed inside a suitable temperature / humidity chamber to vary ambient temperature. Frequency stability was measured for variations of ambient temperature from -30 to +50 degrees C. Frequency measurements were made at the temperature extremes and at 10 degree C intervals. Sufficient time at each temperature interval was provided for the frequency determining circuitry to stabilize.

Variations of Supply Voltage:

While powered from an AC adapter, frequency stability was measured for variations of primary supply voltage from 85 to 115 percent of the mains voltage.

The EUT can also be powered from a forklift battery, so frequency stability was also measured for variations of DC supply voltage to the EUT. The primary DC supply voltage was reduced to the battery operating end point which was 10.2 Vdc.

Completed by:

EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: see below
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Job Site: EV06 & EV09
Tested by: Greg Kiemel	Power: see below

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(g)	Year: Most Current	Method: 47 CFR 2.1055	Year: 2002

SAMPLE CALCULATIONS			

COMMENTS			

EUT OPERATING MODES			
Transmitting mid band with no modulation (CW mode).			

DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
Manufacturers of UNII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation specified in the users manual.			

RESULTS	MINIMUM FREQUENCY STABILITY
Pass	11.36 ppm

SIGNATURE	
 Tested By: _____	

DESCRIPTION OF TEST	
Frequency Stability - Low Channel - 5150 to 5250 MHz Band	

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	5180.00000	5180.011570	2.23	20
-20	5180.00000	5180.017305	3.34	20
-10	5180.00000	5180.015025	2.90	20
0	5180.00000	5180.004685	0.90	20
10	5180.00000	5179.992075	1.53	20
20	5180.00000	5179.971975	5.41	20
30	5180.00000	5179.954495	8.78	20
40	5180.00000	5179.944115	10.79	20
50	5180.00000	5179.941170	11.36	20

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	5180.00000	5179.944085	10.79	20
132 (110%)	5180.00000	5179.944200	10.77	20
126 (105%)	5180.00000	5179.944145	10.78	20
120 (100%)	5180.00000	5179.944240	10.76	20
114 (95%)	5180.00000	5179.944215	10.77	20
108 (90%)	5180.00000	5179.944300	10.75	20
102 (85%)	5180.00000	5179.944230	10.77	20

Frequency Stability with Variation of Vehicle Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
13.8 (115%)	5180.00000	5179.943601	10.89	20
13.2 (110%)	5180.00000	5179.943601	10.89	20
12.6 (105%)	5180.00000	5179.943506	10.91	20
12 (100%)	5180.00000	5179.943506	10.91	20
11.4 (95%)	5180.00000	5179.943506	10.91	20
10.8 (90%)	5180.00000	5179.943491	10.91	20
10.2 (85%)	5180.00000	5179.943426	10.92	20

EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: see below
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Job Site: EV06 & EV09
Tested by: Greg Kiemel	Power: see below

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(g)	Year: Most Current	Method: 47 CFR 2.1055	Year: 2002

SAMPLE CALCULATIONS			

COMMENTS			

EUT OPERATING MODES			
Transmitting mid band with no modulation (CW mode).			

DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
Manufacturers of UNII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation specified in the users manual.			

RESULTS	MINIMUM FREQUENCY STABILITY
Pass	11.29 ppm

SIGNATURE	
 Tested By: _____	

DESCRIPTION OF TEST	
Frequency Stability - High Channel - 5150 to 5250 MHz Band	

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	5240.00000	5240.012020	2.29	20
-20	5240.00000	5240.017830	3.40	20
-10	5240.00000	5240.014495	2.77	20
0	5240.00000	5240.002625	0.50	20
10	5240.00000	5239.988380	2.22	20
20	5240.00000	5239.970500	5.63	20
30	5240.00000	5239.954080	8.76	20
40	5240.00000	5239.943160	10.85	20
50	5240.00000	5239.940865	11.29	20

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	5240.00000	5239.943915	10.70	20
132 (110%)	5240.00000	5239.944010	10.69	20
126 (105%)	5240.00000	5239.943825	10.72	20
120 (100%)	5240.00000	5239.943745	10.74	20
114 (95%)	5240.00000	5239.943695	10.75	20
108 (90%)	5240.00000	5239.943655	10.75	20
102 (85%)	5240.00000	5239.943700	10.74	20

Frequency Stability with Variation of Vehicle Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
13.8 (115%)	5240.00000	5239.943015	10.88	20
13.2 (110%)	5240.00000	5239.942500	10.97	20
12.6 (105%)	5240.00000	5239.942700	10.94	20
12 (100%)	5240.00000	5239.942745	10.93	20
11.4 (95%)	5240.00000	5239.942690	10.94	20
10.8 (90%)	5240.00000	5239.942570	10.96	20
10.2 (85%)	5240.00000	5239.942525	10.97	20

EMISSIONS DATA SHEET

EUT: 802MIAG-CV60		Work Order: ITRM0041
Serial Number: 002-032		Date: 09/27/04
Customer: Intermec Corporation		Temperature: see below
Attendees: None	Tested by: Greg Kiemel	Humidity: 38% RH
Customer Ref. No.: N/A	Power: see below	Job Site: EV06 & EV09

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(g)	Year: Most Current	Method: 47 CFR 2.1055	Year: 2002

SAMPLE CALCULATIONS			

COMMENTS			

EUT OPERATING MODES			
Transmitting mid band with no modulation (CW mode).			

DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
Manufacturers of UNII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation specified in the users manual.			

RESULTS	MINIMUM FREQUENCY STABILITY
Pass	11.37 ppm

SIGNATURE	
	Tested By: _____

DESCRIPTION OF TEST	
Frequency Stability - Low Channel - 5250 to 5350 MHz Band	

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	5260.00000	5260.009415	1.79	20
-20	5260.00000	5260.017850	3.39	20
-10	5260.00000	5260.014110	2.68	20
0	5260.00000	5260.002065	0.39	20
10	5260.00000	5259.987320	2.41	20
20	5260.00000	5259.970440	5.62	20
30	5260.00000	5259.953995	8.75	20
40	5260.00000	5259.942935	10.85	20
50	5260.00000	5259.940205	11.37	20

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	5260.00000	5259.943575	10.73	20
132 (110%)	5260.00000	5259.943505	10.74	20
126 (105%)	5260.00000	5259.943600	10.72	20
120 (100%)	5260.00000	5259.943795	10.69	20
114 (95%)	5260.00000	5259.943820	10.68	20
108 (90%)	5260.00000	5259.943995	10.65	20
102 (85%)	5260.00000	5259.944000	10.65	20

Frequency Stability with Variation of Vehicle Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
13.8 (115%)	5260.00000	5259.943335	10.77	20
13.2 (110%)	5260.00000	5259.942910	10.85	20
12.6 (105%)	5260.00000	5259.942735	10.89	20
12 (100%)	5260.00000	5259.942505	10.93	20
11.4 (95%)	5260.00000	5259.942525	10.93	20
10.8 (90%)	5260.00000	5259.942370	10.96	20
10.2 (85%)	5260.00000	5259.942335	10.96	20

EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: see below
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Job Site: EV06 & EV09
Tested by: Greg Kiemel	Power: see below

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(g)	Year: Most Current	Method: 47 CFR 2.1055	Year: 2002

SAMPLE CALCULATIONS			


COMMENTS			

EUT OPERATING MODES			
Transmitting mid band with no modulation (CW mode).			

DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
Manufacturers of UNII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation specified in the users manual.			

RESULTS	MINIMUM FREQUENCY STABILITY
Pass	11.35 ppm

SIGNATURE	
 Tested By: _____	

DESCRIPTION OF TEST	
Frequency Stability - High Channel - 5250 to 5350 MHz Band	

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	5320.00000	5320.011950	2.25	20
-20	5320.00000	5320.018100	3.40	20
-10	5320.00000	5320.014115	2.65	20
0	5320.00000	5320.002145	0.40	20
10	5320.00000	5319.987855	2.28	20
20	5320.00000	5319.969880	5.66	20
30	5320.00000	5319.953240	8.79	20
40	5320.00000	5319.942310	10.84	20
50	5320.00000	5319.939595	11.35	20

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	5320.00000	5319.944050	10.52	20
132 (110%)	5320.00000	5319.943880	10.55	20
126 (105%)	5320.00000	5319.943790	10.57	20
120 (100%)	5320.00000	5319.943635	10.59	20
114 (95%)	5320.00000	5319.943440	10.63	20
108 (90%)	5320.00000	5319.943370	10.64	20
102 (85%)	5320.00000	5319.943320	10.65	20

Frequency Stability with Variation of Vehicle Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
13.8 (115%)	5320.00000	5319.941810	10.94	20
13.2 (110%)	5320.00000	5319.941700	10.96	20
12.6 (105%)	5320.00000	5319.941705	10.96	20
12 (100%)	5320.00000	5319.941640	10.97	20
11.4 (95%)	5320.00000	5319.941610	10.98	20
10.8 (90%)	5320.00000	5319.941585	10.98	20
10.2 (85%)	5320.00000	5319.941635	10.97	20

EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: see below
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Job Site: EV06 & EV09
Tested by: Greg Kiemel	Power: see below

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(g)	Year: Most Current	Method: 47 CFR 2.1055	Year: 2002

SAMPLE CALCULATIONS			

COMMENTS			

EUT OPERATING MODES			
Transmitting mid band with no modulation (CW mode).			

DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
Manufacturers of UNII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation specified in the users manual.			

RESULTS	MINIMUM FREQUENCY STABILITY
Pass	11.35 ppm

SIGNATURE	
 Tested By: _____	

DESCRIPTION OF TEST	
Frequency Stability - Low Channel - 5725 to 5825 MHz Band	

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	5745.00000	5745.012730	2.22	20
-20	5745.00000	5745.019535	3.40	20
-10	5745.00000	5745.014945	2.60	20
0	5745.00000	5745.002195	0.38	20
10	5745.00000	5744.986735	2.31	20
20	5745.00000	5744.966900	5.76	20
30	5745.00000	5744.949940	8.71	20
40	5745.00000	5744.938375	10.73	20
50	5745.00000	5744.934820	11.35	20

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	5745.00000	5744.939190	10.58	20
132 (110%)	5745.00000	5744.939605	10.51	20
126 (105%)	5745.00000	5744.940010	10.44	20
120 (100%)	5745.00000	5744.939990	10.45	20
114 (95%)	5745.00000	5744.940055	10.43	20
108 (90%)	5745.00000	5744.940310	10.39	20
102 (85%)	5745.00000	5744.940530	10.35	20

Frequency Stability with Variation of Vehicle Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
13.8 (115%)	5745.00000	5744.936805	11.00	20
13.2 (110%)	5745.00000	5744.936905	10.98	20
12.6 (105%)	5745.00000	5744.936805	11.00	20
12 (100%)	5745.00000	5744.936875	10.99	20
11.4 (95%)	5745.00000	5744.936815	11.00	20
10.8 (90%)	5745.00000	5744.936860	10.99	20
10.2 (85%)	5745.00000	5744.936820	11.00	20

EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: see below
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Job Site: EV06 & EV09
Tested by: Greg Kiemel	Power: see below

TEST SPECIFICATIONS			
Specification: 47 CFR 15.407(g)	Year: Most Current	Method: 47 CFR 2.1055	Year: 2002

SAMPLE CALCULATIONS			

COMMENTS			

EUT OPERATING MODES			
Transmitting mid band with no modulation (CW mode).			

DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
Manufacturers of UNII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation specified in the users manual.			

RESULTS	MINIMUM FREQUENCY STABILITY
Pass	11.35 ppm

SIGNATURE	
 Tested By: _____	

DESCRIPTION OF TEST	
Frequency Stability - High Channel - 5725 to 5825 MHz Band	

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

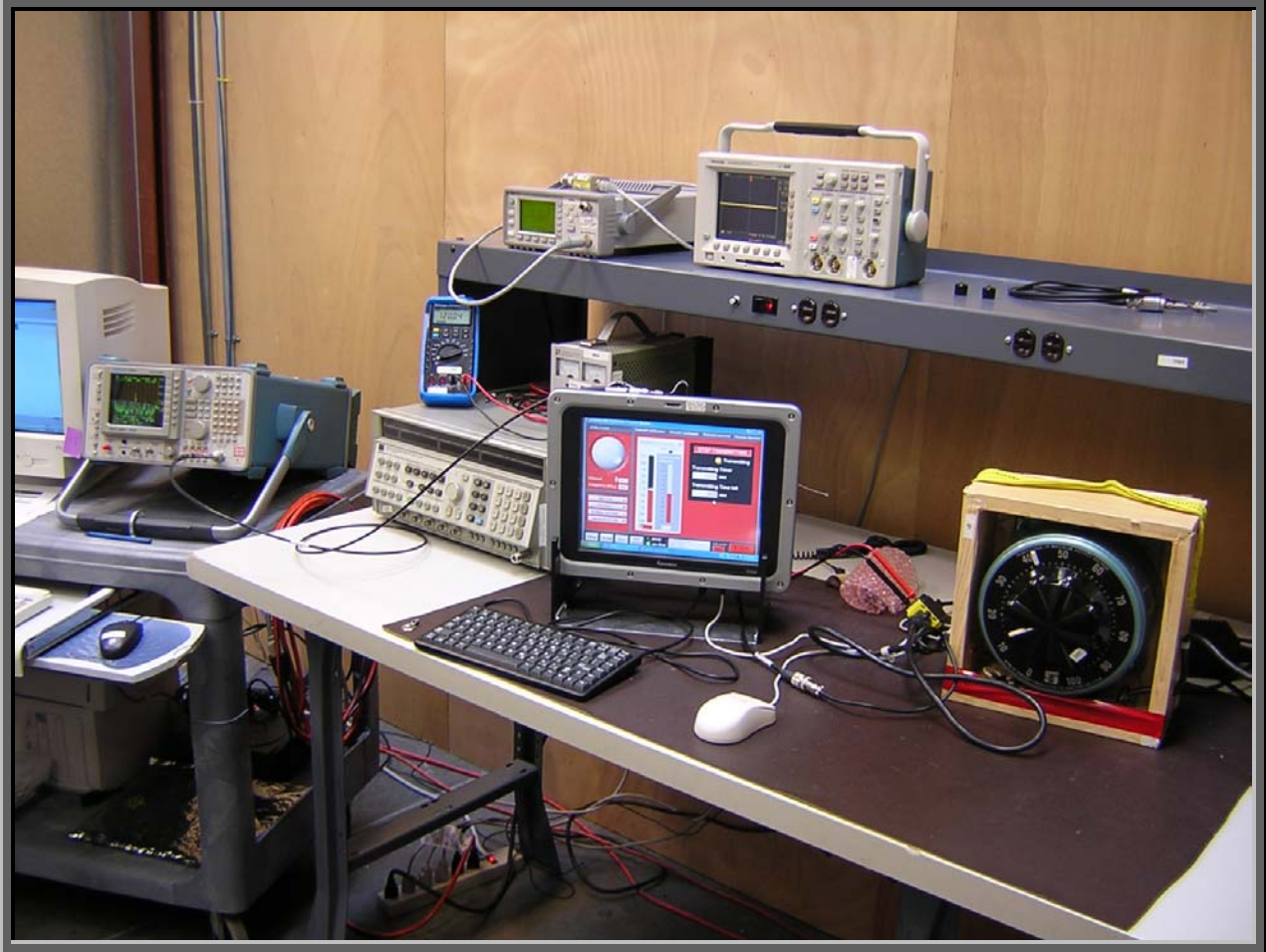
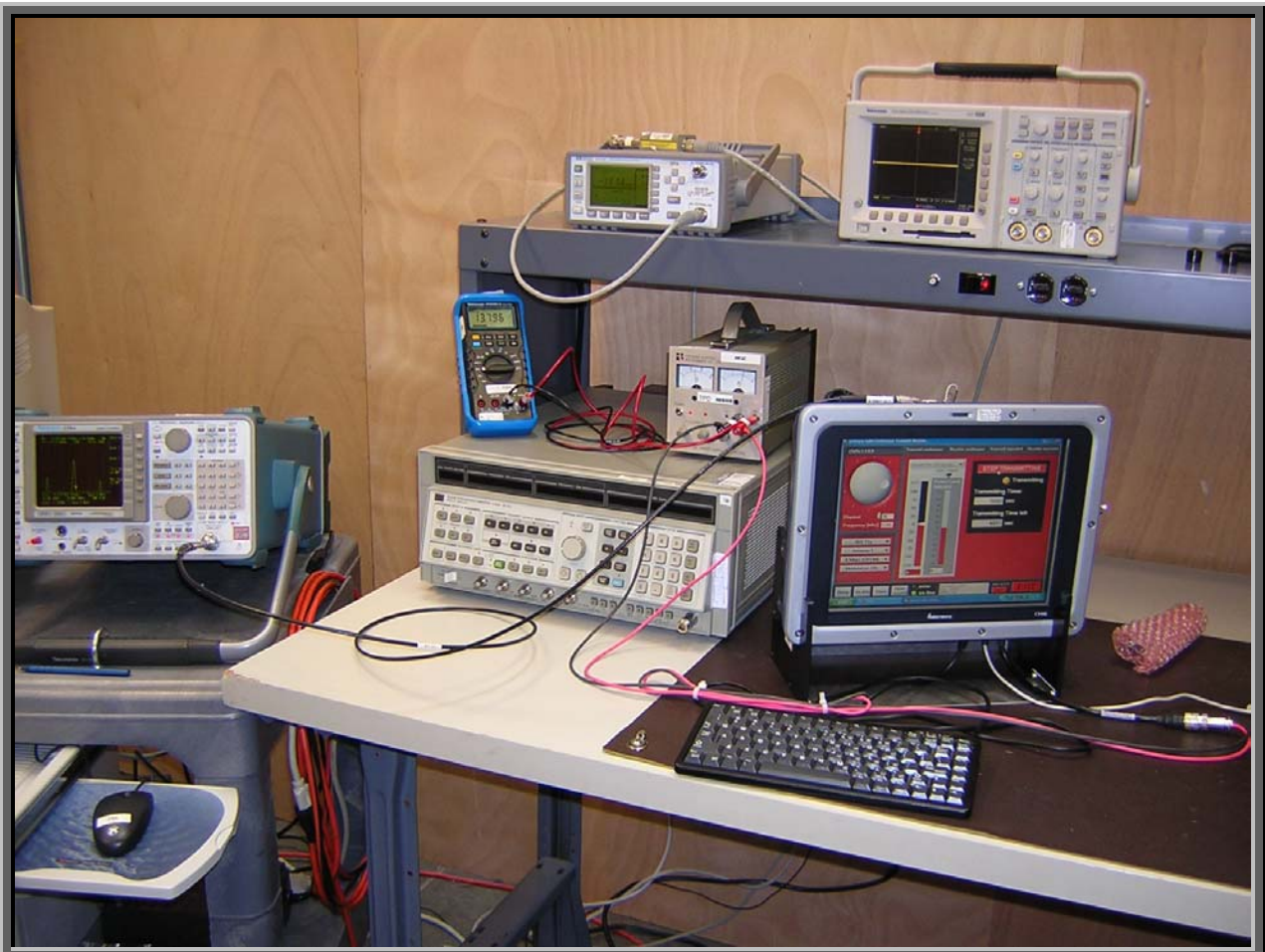
Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	5805.00000	5805.013380	2.30	20
-20	5805.00000	5805.019800	3.41	20
-10	5805.00000	5805.015180	2.61	20
0	5805.00000	5805.002330	0.40	20
10	5805.00000	5804.986220	2.37	20
20	5805.00000	5804.966270	5.81	20
30	5805.00000	5804.949460	8.71	20
40	5805.00000	5804.937285	10.80	20
50	5805.00000	5804.934105	11.35	20

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	5805.00000	5804.941540	10.07	20
132 (110%)	5805.00000	5804.940855	10.19	20
126 (105%)	5805.00000	5804.940600	10.23	20
120 (100%)	5805.00000	5804.940360	10.27	20
114 (95%)	5805.00000	5804.940245	10.29	20
108 (90%)	5805.00000	5804.940080	10.32	20
102 (85%)	5805.00000	5804.940030	10.33	20

Frequency Stability with Variation of Vehicle Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
13.8 (115%)	5805.00000	5804.936175	10.99	20
13.2 (110%)	5805.00000	5804.936255	10.98	20
12.6 (105%)	5805.00000	5804.936205	10.99	20
12 (100%)	5805.00000	5804.936175	10.99	20
11.4 (95%)	5805.00000	5804.936110	11.01	20
10.8 (90%)	5805.00000	5804.936310	10.97	20
10.2 (85%)	5805.00000	5804.936185	10.99	20





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:

Channel 36 (5180 MHz)
Channel 48 (5240 MHz)
Channel 52 (5260 MHz)
Channel 64 (5320 MHz)
Channel 149 (5745 MHz)
Channel 155 (5775 MHz)
Channel 161 (5805 MHz)

Operating Modes Investigated:

Single Channel Continuous Transmit

Data Rates Investigated:

802.11(a) 6Mbit

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
Description			
The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio	Intermec Technologies Corporation	802MIAG-CV60	Unknown
Host PC	Intermec Technologies Corporation	CV60	23100400645
Headset	Unknown	Unknown	Unknown
Headphones	Sony	Unknown	Unknown
External Floppy Drive	TEAC	FC-05PU	0045708
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Audio	No	1.2	No	Host PC	Headset
AC Power	No	1.0	No	Host PC	Headphones
USB	Yes	0.2	Yes	Host PC	External Floppy Drive
Serial (x2)	Yes	1.8	No	Host PC	Termination
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
LAN (10BT)	No	1.6	No	Host PC	Termination
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	AC Mains

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

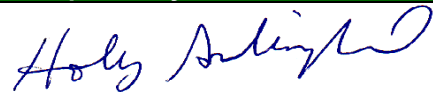
Measurement Equipment					
Description	Manufacturer	Model	Identifier	Last Cal	Interval
LISN	Solar	9252-50-R-24-BNC	LIN	12/16/2003	13 mo
High Pass Filter	TTE	H97-100k-50-720B	HFC	02/01/2004	13 mo
Spectrum Analyzer	Hewlett-Packard	8566B	AAL	12/23/2003	13 mo
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	12/23/2003	13 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 device that could be connected to the AC power line. Therefore, the measurements were made on the device used to power the EUT. 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 a data rate that falls within the measurement band. 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:



EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 161.

DEVIATIONS FROM TEST STANDARD

No deviations.

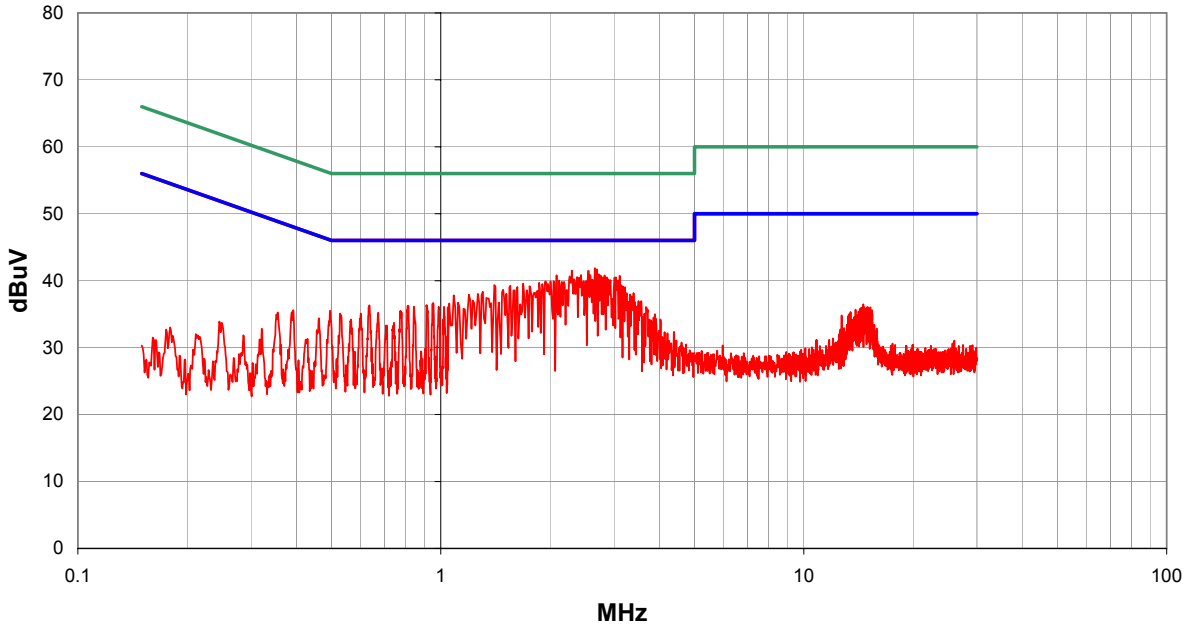
RESULTS

Pass	Line	Run #
	L1	1

Other

Holly Ashkannejhad

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)
2.656	21.4	0.0	0.5	20.0		41.9	46.0	-4.1
2.696	21.2	0.0	0.5	20.0		41.7	46.0	-4.3
2.296	21.1	0.0	0.4	20.0		41.5	46.0	-4.5
2.556	21.0	0.0	0.5	20.0		41.5	46.0	-4.5
2.726	20.5	0.0	0.5	20.0		41.0	46.0	-5.0
2.436	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.086	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.826	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
3.116	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
3.036	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.866	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.796	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
3.016	19.9	0.0	0.5	20.0		40.4	46.0	-5.6
2.116	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
2.516	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
2.046	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
2.006	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
2.186	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
1.865	19.3	0.0	0.4	20.0		39.7	46.0	-6.3

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 161.

DEVIATIONS FROM TEST STANDARD

No deviations.

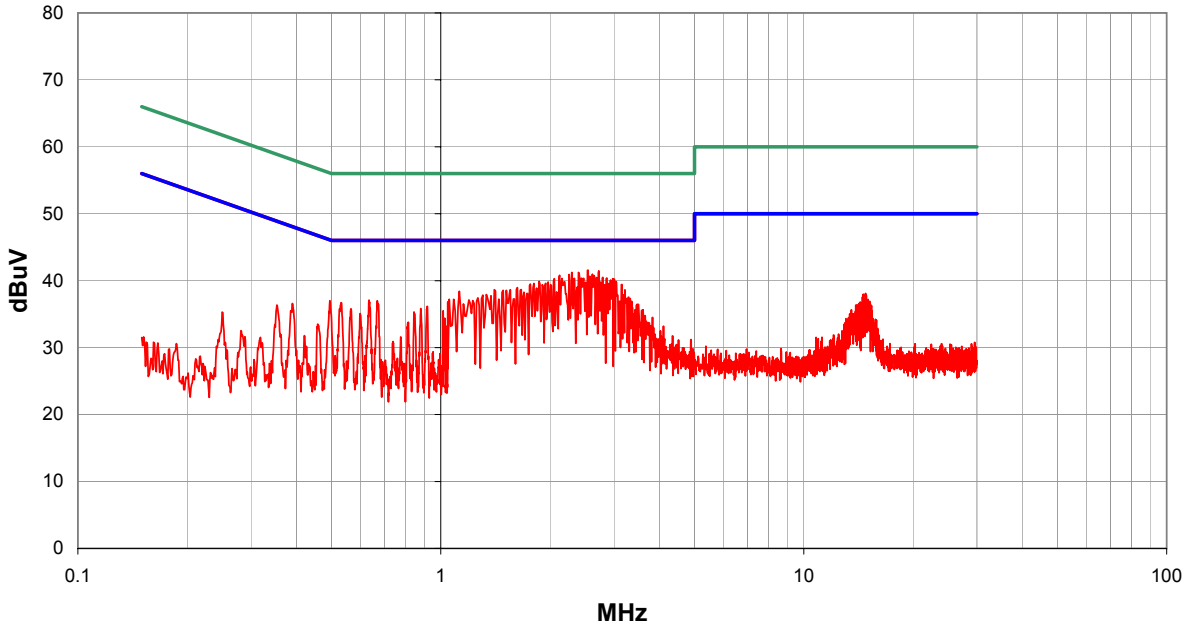
RESULTS

Pass	Line	Run #
	N	2

Other

Holly Ashkannejhad

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)
2.546	21.1	0.0	0.5	20.0		41.6	46.0	-4.4
2.726	21.0	0.0	0.5	20.0		41.5	46.0	-4.5
2.396	20.8	0.0	0.4	20.0		41.2	46.0	-4.8
2.296	20.8	0.0	0.4	20.0		41.2	46.0	-4.8
2.616	20.5	0.0	0.5	20.0		41.0	46.0	-5.0
2.256	20.5	0.0	0.4	20.0		40.9	46.0	-5.1
2.126	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.576	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.796	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.686	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.866	19.9	0.0	0.5	20.0		40.4	46.0	-5.6
2.476	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.056	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.976	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
3.006	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
3.036	19.4	0.0	0.5	20.0		39.9	46.0	-6.1
1.865	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
1.975	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
1.945	19.2	0.0	0.4	20.0		39.6	46.0	-6.4

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 155.

DEVIATIONS FROM TEST STANDARD

No deviations.

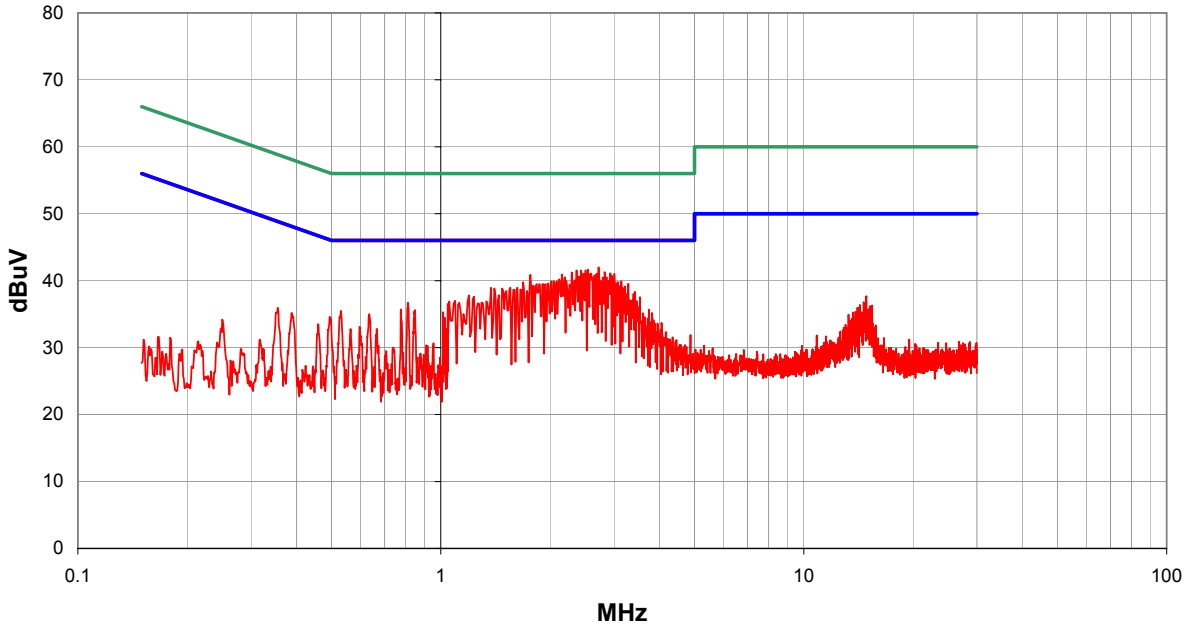
RESULTS

Pass	Line	Run #
	L1	3

Other

Holly Ashkannejhad

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)
2.726	21.5	0.0	0.5	20.0		42.0	46.0	-4.0
2.546	21.2	0.0	0.5	20.0		41.7	46.0	-4.3
2.506	21.1	0.0	0.5	20.0		41.6	46.0	-4.4
2.436	21.1	0.0	0.4	20.0		41.5	46.0	-4.5
2.366	21.1	0.0	0.4	20.0		41.5	46.0	-4.5
2.826	20.8	0.0	0.5	20.0		41.3	46.0	-4.7
2.296	20.8	0.0	0.4	20.0		41.2	46.0	-4.8
2.936	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.686	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.596	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
3.006	20.5	0.0	0.5	20.0		41.0	46.0	-5.0
2.156	20.5	0.0	0.4	20.0		40.9	46.0	-5.1
1.765	20.5	0.0	0.4	20.0		40.9	46.0	-5.1
2.656	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.966	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.216	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
3.146	19.4	0.0	0.5	20.0		39.9	46.0	-6.1
2.046	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
3.076	19.3	0.0	0.5	20.0		39.8	46.0	-6.2

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbits, Channel 155.

DEVIATIONS FROM TEST STANDARD

No deviations.

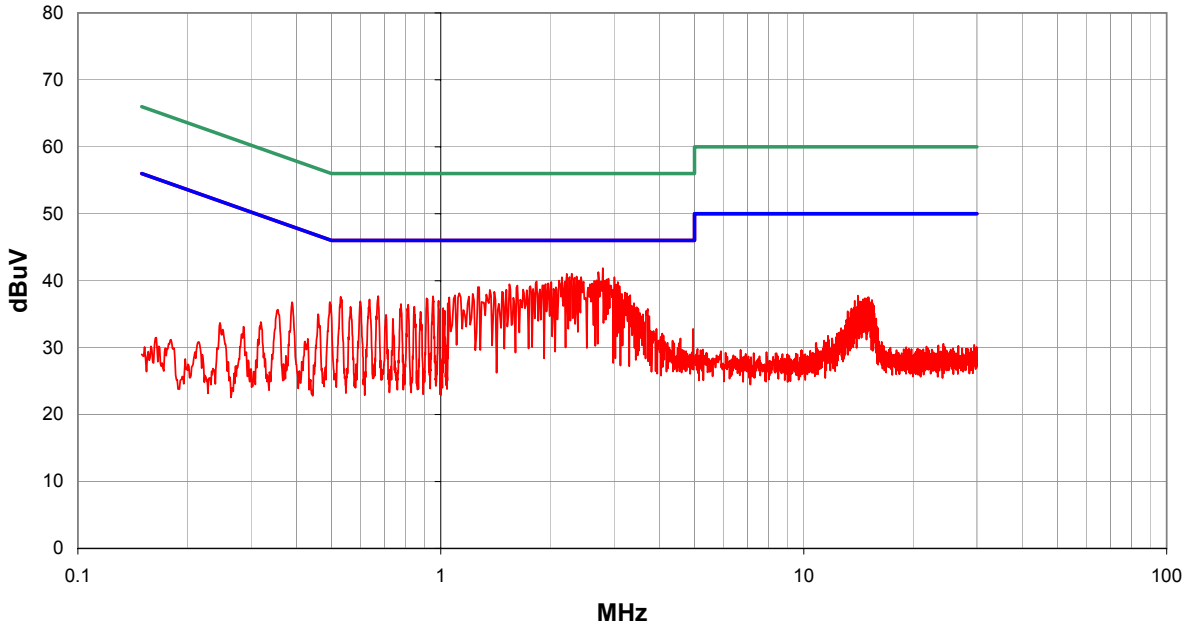
RESULTS

Pass	Line	Run #
Pass	N	4

Other

Holly Ashkannejhad

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)
2.796	21.4	0.0	0.5	20.0		41.9	46.0	-4.1
2.296	20.6	0.0	0.4	20.0		41.0	46.0	-5.0
2.226	20.6	0.0	0.4	20.0		41.0	46.0	-5.0
2.366	20.2	0.0	0.4	20.0		40.6	46.0	-5.4
2.436	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
2.266	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
2.156	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
3.006	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.336	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.896	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
2.866	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
2.686	19.6	0.0	0.5	20.0		40.1	46.0	-5.9
2.826	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
2.646	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
1.835	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
3.076	19.3	0.0	0.5	20.0		39.8	46.0	-6.2
2.016	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
2.616	19.1	0.0	0.5	20.0		39.6	46.0	-6.4
1.545	19.1	0.0	0.4	20.0		39.5	46.0	-6.5

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.207
Method:	ANSI C63.4
Year:	2003
Year:	2001

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
 Radio in Host PC

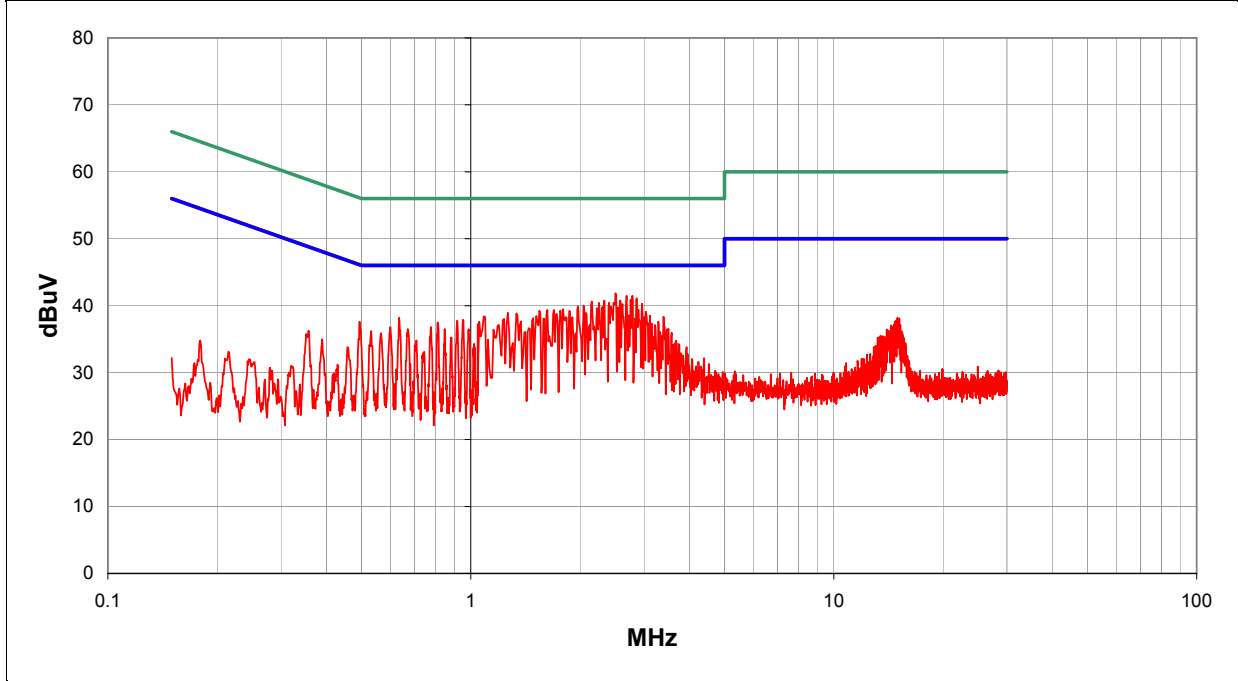
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbits, Channel 149.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Line	Run #
Pass	N	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)
2.506	21.4	0.0	0.5	20.0		41.9	46.0	-4.1
2.786	21.0	0.0	0.5	20.0		41.5	46.0	-4.5
2.686	21.0	0.0	0.5	20.0		41.5	46.0	-4.5
2.866	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.586	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.336	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
2.156	20.2	0.0	0.4	20.0		40.6	46.0	-5.4
2.256	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.966	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
2.616	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
2.046	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
1.975	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
2.546	19.3	0.0	0.5	20.0		39.8	46.0	-6.2
1.795	19.1	0.0	0.4	20.0		39.5	46.0	-6.5
1.695	19.0	0.0	0.4	20.0		39.4	46.0	-6.6
1.625	19.0	0.0	0.4	20.0		39.4	46.0	-6.6
1.765	18.9	0.0	0.4	20.0		39.3	46.0	-6.7
1.545	18.9	0.0	0.4	20.0		39.3	46.0	-6.7
1.875	18.8	0.0	0.4	20.0		39.2	46.0	-6.8

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS			
Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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
 Radio in Host PC

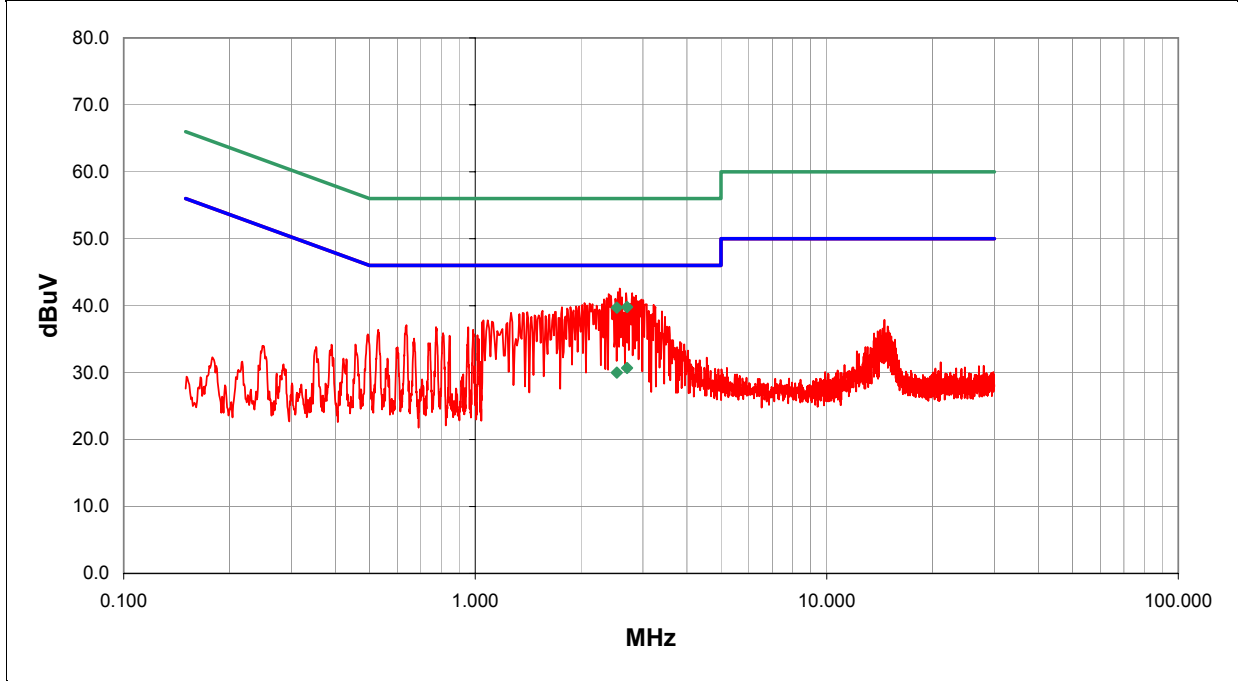
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbits, Channel 149.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Line	Run #
Pass	L1	6

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)
2.705	10.2	0.0	0.5	20.0	AV	30.7	46.0	-15.3
2.529	9.6	0.0	0.4	20.0	AV	30.0	46.0	-16.0
2.705	19.3	0.0	0.5	20.0	QP	39.8	56.0	-16.2
2.529	19.3	0.0	0.4	20.0	QP	39.7	56.0	-16.3
2.576	22.1	0.0	0.5	20.0		42.6	46.0	-3.4
2.546	21.6	0.0	0.5	20.0		42.1	46.0	-3.9
2.796	21.4	0.0	0.5	20.0		41.9	46.0	-4.1
2.686	21.4	0.0	0.5	20.0		41.9	46.0	-4.1
2.396	21.3	0.0	0.4	20.0		41.7	46.0	-4.3
2.866	21.0	0.0	0.5	20.0		41.5	46.0	-4.5
2.826	20.8	0.0	0.5	20.0		41.3	46.0	-4.7
2.616	20.8	0.0	0.5	20.0		41.3	46.0	-4.7
2.366	20.7	0.0	0.4	20.0		41.1	46.0	-4.9
2.506	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.326	20.5	0.0	0.4	20.0		40.9	46.0	-5.1
2.976	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
3.006	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.896	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.046	20.0	0.0	0.4	20.0		40.4	46.0	-5.6

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS			
Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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
 Radio in Host PC

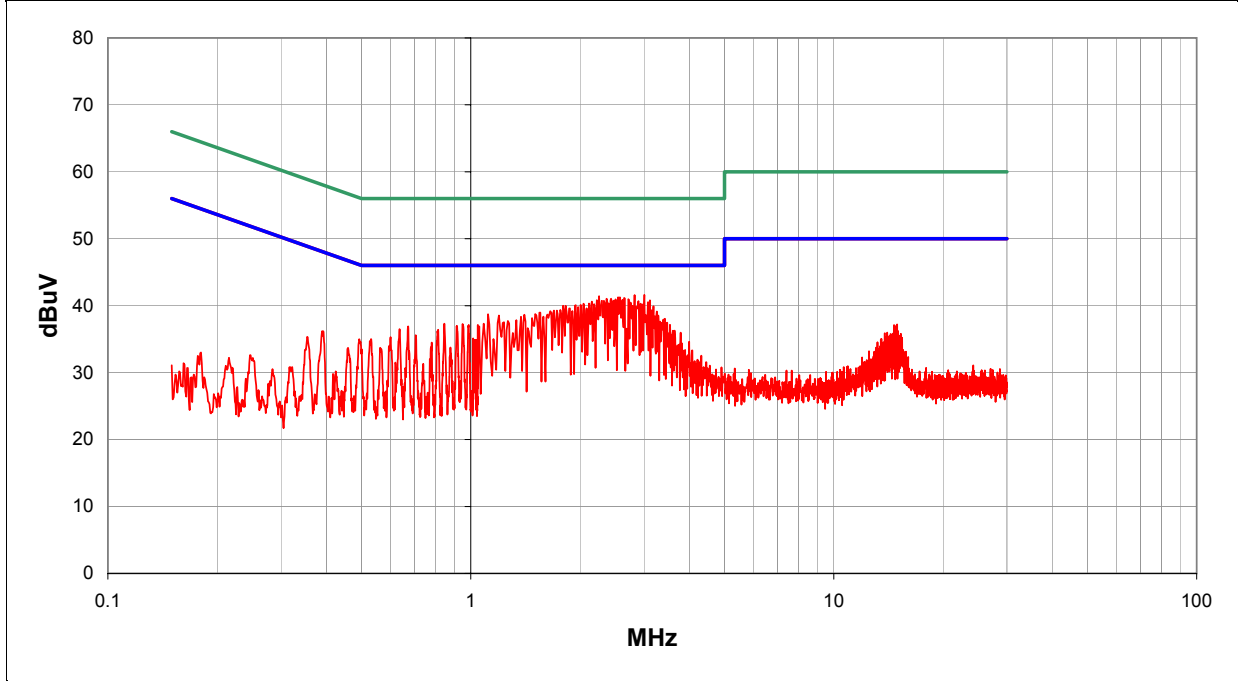
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, Channel 64.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Line	Run #
Pass	L1	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)
3.006	21.1	0.0	0.5	20.0		41.6	46.0	-4.4
2.826	21.1	0.0	0.5	20.0		41.6	46.0	-4.4
2.256	21.0	0.0	0.4	20.0		41.4	46.0	-4.6
2.576	20.8	0.0	0.5	20.0		41.3	46.0	-4.7
2.436	20.6	0.0	0.4	20.0		41.0	46.0	-5.0
2.366	20.6	0.0	0.4	20.0		41.0	46.0	-5.0
2.716	20.5	0.0	0.5	20.0		41.0	46.0	-5.0
2.506	20.5	0.0	0.5	20.0		41.0	46.0	-5.0
3.116	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.896	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.156	20.2	0.0	0.4	20.0		40.6	46.0	-5.4
2.756	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.396	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.046	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.936	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
2.186	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
2.966	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
2.006	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
1.945	19.7	0.0	0.4	20.0		40.1	46.0	-5.9

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbits, Channel 64.

DEVIATIONS FROM TEST STANDARD

No deviations.

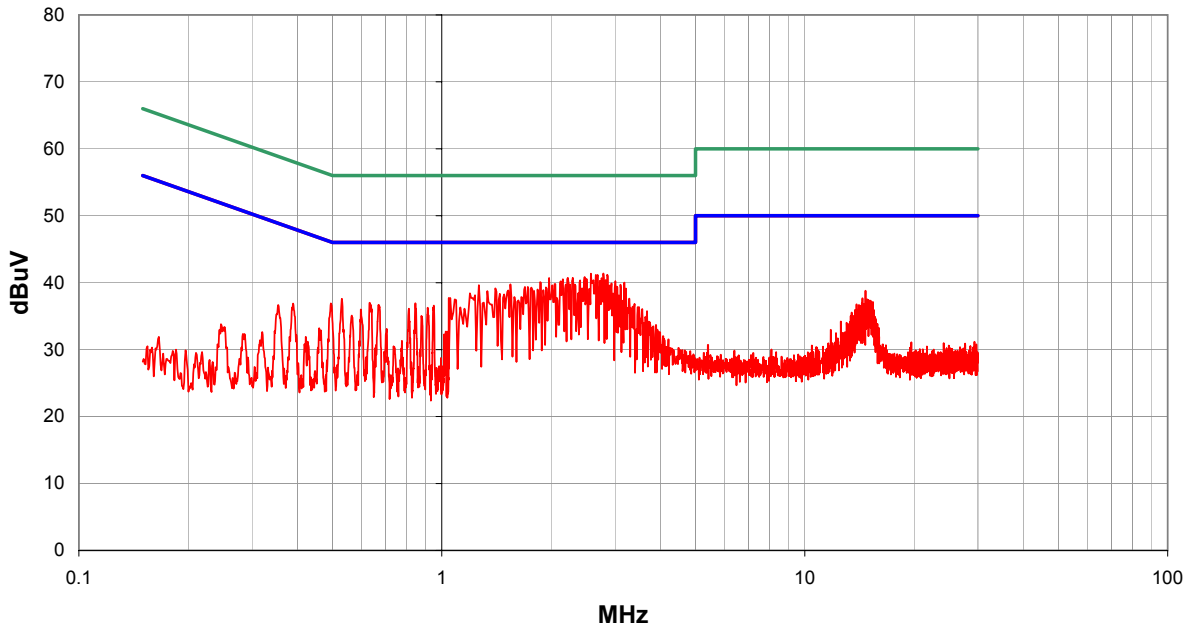
RESULTS

Pass	Line	Run #
	N	8

Other

Holly Ashkannejhad

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)
2.786	20.9	0.0	0.5	20.0		41.4	46.0	-4.6
2.576	20.9	0.0	0.5	20.0		41.4	46.0	-4.6
2.856	20.7	0.0	0.5	20.0		41.2	46.0	-4.8
2.686	20.7	0.0	0.5	20.0		41.2	46.0	-4.8
2.476	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.296	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
2.226	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
1.975	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
2.156	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
2.826	19.9	0.0	0.5	20.0		40.4	46.0	-5.6
2.406	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
3.006	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
1.865	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
3.186	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
1.545	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
2.196	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
3.106	19.2	0.0	0.5	20.0		39.7	46.0	-6.3
1.265	19.3	0.0	0.3	20.0		39.6	46.0	-6.4
3.036	18.9	0.0	0.5	20.0		39.4	46.0	-6.6

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.207
Method:	ANSI C63.4
Year:	2003
Year:	2001

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
 Radio in Host PC

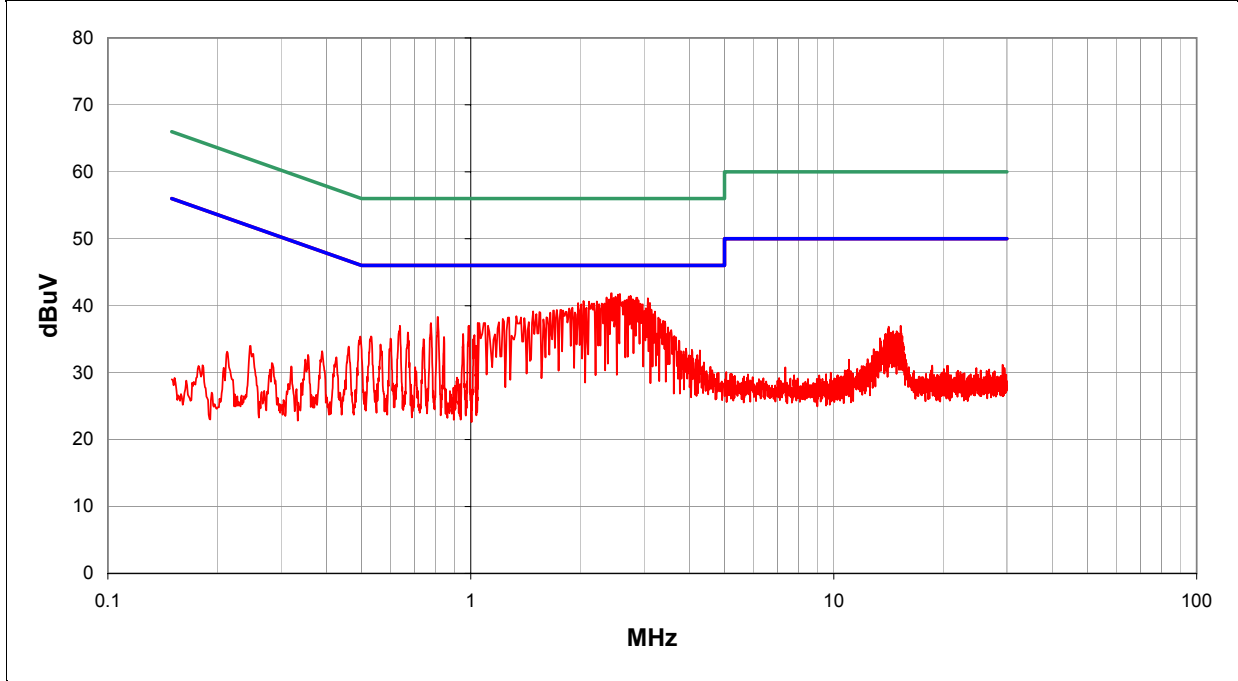
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, Channel 52.

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)
2.446	21.4	0.0	0.4	20.0		41.8	46.0	-4.2
2.576	21.3	0.0	0.5	20.0		41.8	46.0	-4.2
2.546	21.2	0.0	0.5	20.0		41.7	46.0	-4.3
2.756	21.0	0.0	0.5	20.0		41.5	46.0	-4.5
2.366	20.8	0.0	0.4	20.0		41.2	46.0	-4.8
2.876	20.7	0.0	0.5	20.0		41.2	46.0	-4.8
3.076	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.406	20.5	0.0	0.4	20.0		40.9	46.0	-5.1
2.686	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.836	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.046	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
2.226	20.2	0.0	0.4	20.0		40.6	46.0	-5.4
2.116	20.2	0.0	0.4	20.0		40.6	46.0	-5.4
3.116	19.9	0.0	0.5	20.0		40.4	46.0	-5.6
1.975	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.336	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.936	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
2.256	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
2.016	19.8	0.0	0.4	20.0		40.2	46.0	-5.8

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.207
Method:	ANSI C63.4
Year:	2003
Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 52.

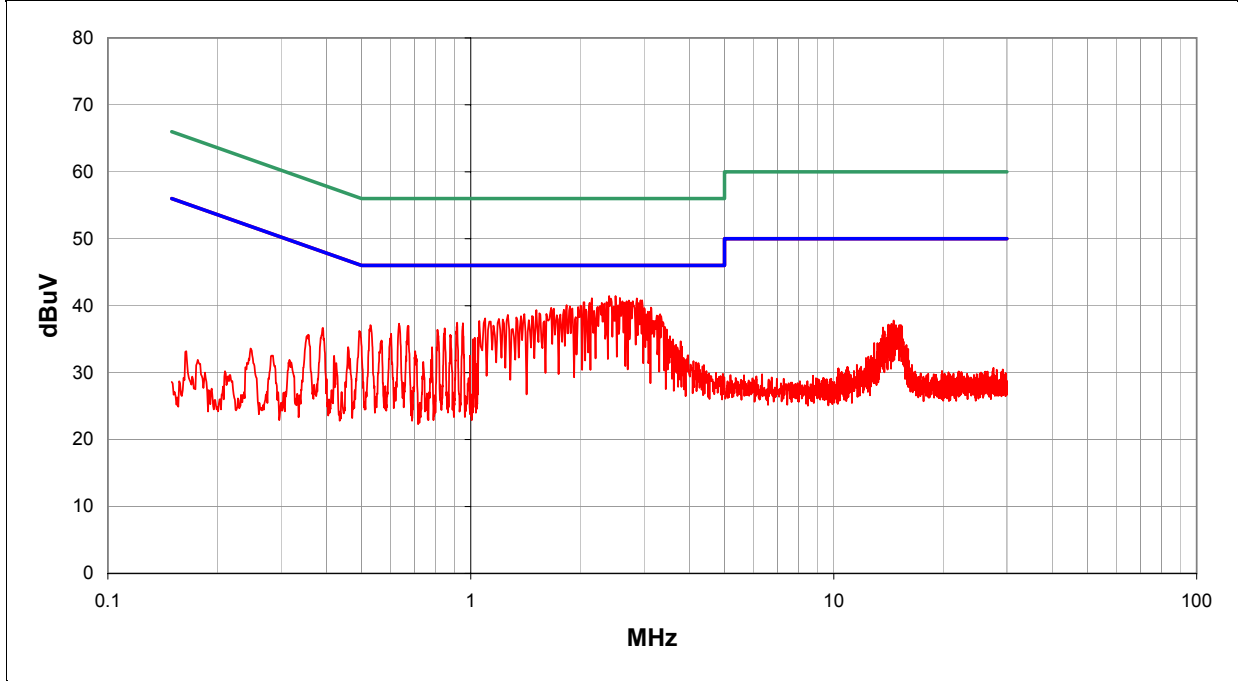
DEVIATIONS FROM TEST STANDARD

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)
2.506	21.0	0.0	0.5	20.0		41.5	46.0	-4.5
2.406	21.0	0.0	0.4	20.0		41.4	46.0	-4.6
2.576	20.7	0.0	0.5	20.0		41.2	46.0	-4.8
2.156	20.7	0.0	0.4	20.0		41.1	46.0	-4.9
2.866	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.966	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.726	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.796	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.686	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.366	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
2.056	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
2.296	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.126	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
1.835	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
2.006	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
3.136	19.2	0.0	0.5	20.0		39.7	46.0	-6.3
1.665	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
3.006	19.1	0.0	0.5	20.0		39.6	46.0	-6.4
1.695	19.2	0.0	0.4	20.0		39.6	46.0	-6.4

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS			
Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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
 Radio in Host PC

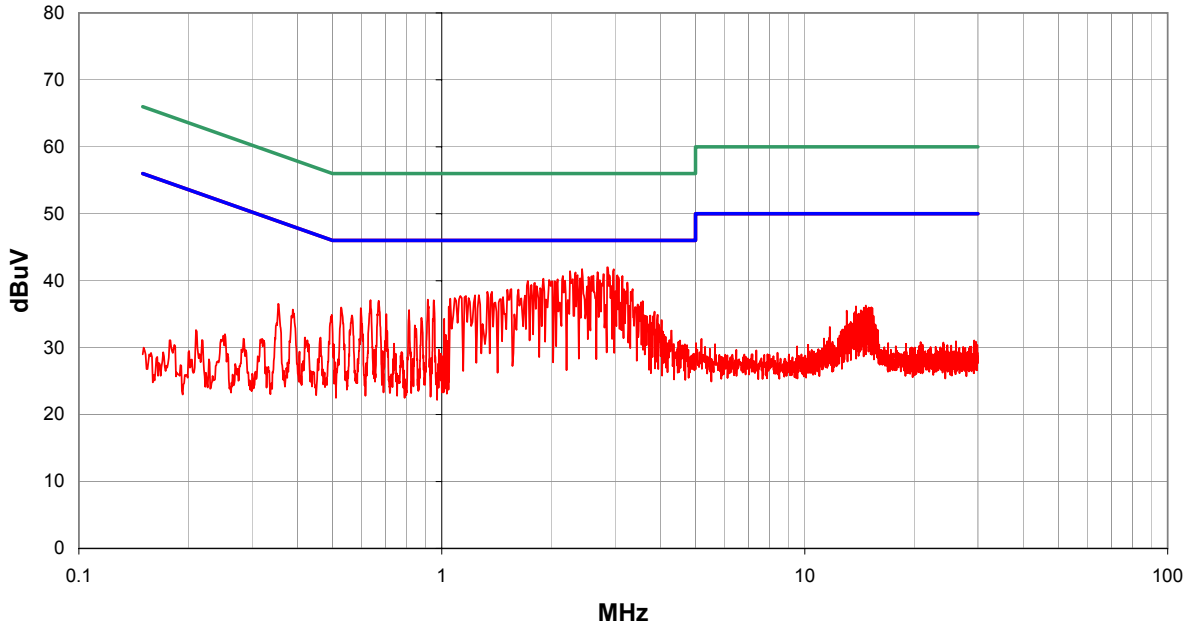
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbps, Channel 48.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Line	Run #
Pass	L1	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)
2.866	21.5	0.0	0.5	20.0		42.0	46.0	-4.0
2.436	21.3	0.0	0.4	20.0		41.7	46.0	-4.3
2.976	21.2	0.0	0.5	20.0		41.7	46.0	-4.3
2.256	21.0	0.0	0.4	20.0		41.4	46.0	-4.6
2.686	20.8	0.0	0.5	20.0		41.3	46.0	-4.7
2.336	20.8	0.0	0.4	20.0		41.2	46.0	-4.8
2.796	20.5	0.0	0.5	20.0		41.0	46.0	-5.0
3.046	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.616	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.156	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
3.146	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.536	20.1	0.0	0.5	20.0		40.6	46.0	-5.4
2.406	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
1.905	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.086	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
1.975	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
1.725	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
2.046	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
3.246	19.2	0.0	0.5	20.0		39.7	46.0	-6.3

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS			
Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

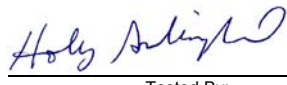
COMMENTS
 Radio in Host PC

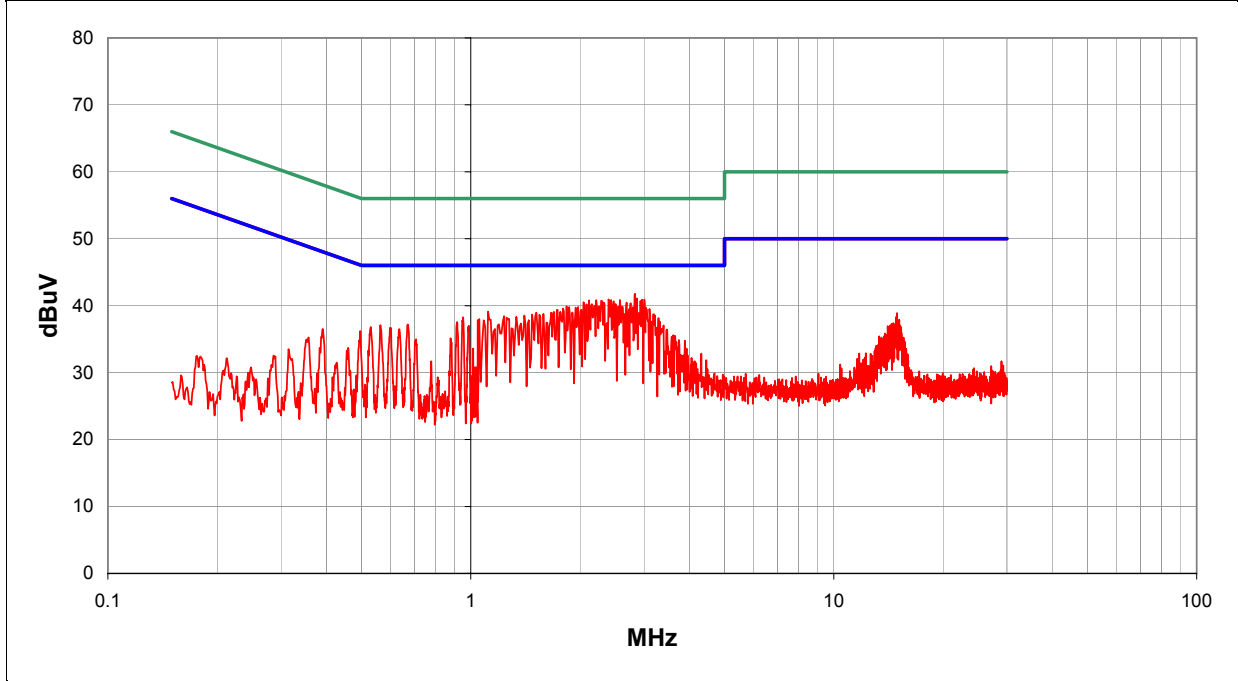
EUT OPERATING MODES
 Transmitting 802.11(a), 6Mbits, Channel 48

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Line	Run #
Pass	N	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)
2.836	21.3	0.0	0.5	20.0		41.8	46.0	-4.2
2.866	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.396	20.5	0.0	0.4	20.0		40.9	46.0	-5.1
3.006	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.966	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.576	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.216	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.116	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.046	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
2.686	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.756	19.9	0.0	0.5	20.0		40.4	46.0	-5.6
2.506	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
2.086	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
1.835	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
1.975	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
1.795	19.2	0.0	0.4	20.0		39.6	46.0	-6.4
3.106	19.0	0.0	0.5	20.0		39.5	46.0	-6.5
2.726	19.0	0.0	0.5	20.0		39.5	46.0	-6.5
2.016	19.0	0.0	0.4	20.0		39.4	46.0	-6.6

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 36.

DEVIATIONS FROM TEST STANDARD

No deviations.

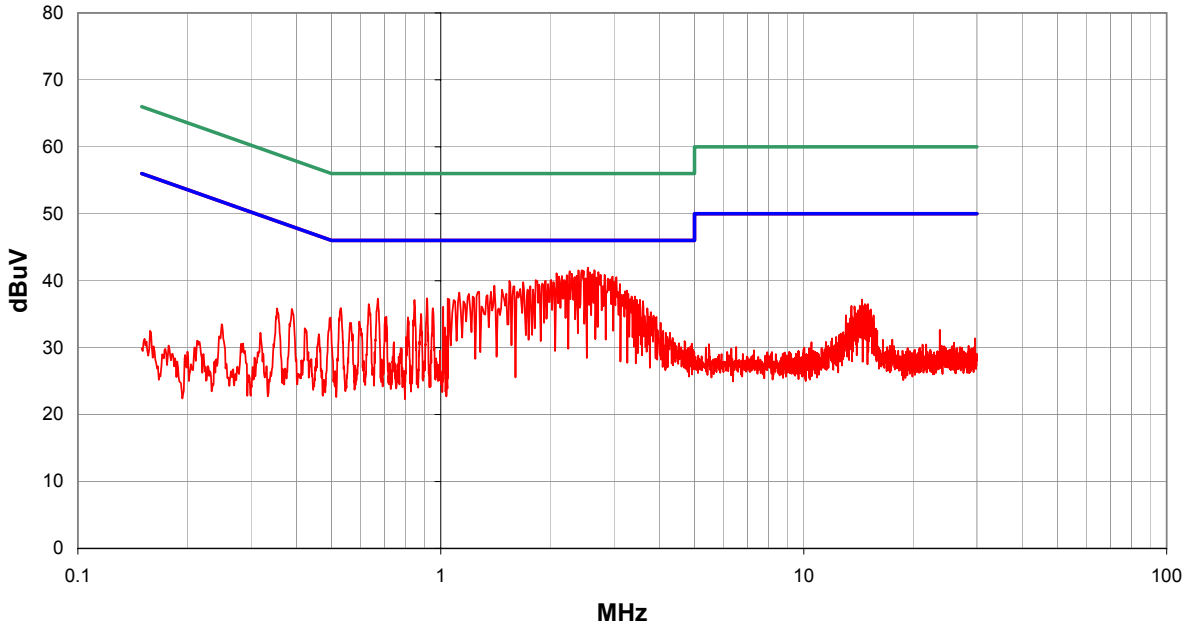
RESULTS

Pass	Line	Run #
Pass	L1	13

Other

Holly Ashkannejhad

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)
2.546	21.5	0.0	0.5	20.0		42.0	46.0	-4.0
2.646	21.1	0.0	0.5	20.0		41.6	46.0	-4.4
2.456	21.1	0.0	0.4	20.0		41.5	46.0	-4.5
2.396	21.1	0.0	0.4	20.0		41.5	46.0	-4.5
2.266	21.0	0.0	0.4	20.0		41.4	46.0	-4.6
2.716	20.8	0.0	0.5	20.0		41.3	46.0	-4.7
2.086	20.7	0.0	0.4	20.0		41.1	46.0	-4.9
2.826	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.226	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.366	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
2.976	20.1	0.0	0.5	20.0		40.6	46.0	-5.4
3.046	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.686	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.506	19.9	0.0	0.5	20.0		40.4	46.0	-5.6
2.016	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
1.825	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
1.945	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
1.545	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
1.685	19.4	0.0	0.4	20.0		39.8	46.0	-6.2

EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(a), 6Mbps, Channel 36.

DEVIATIONS FROM TEST STANDARD

No deviations.

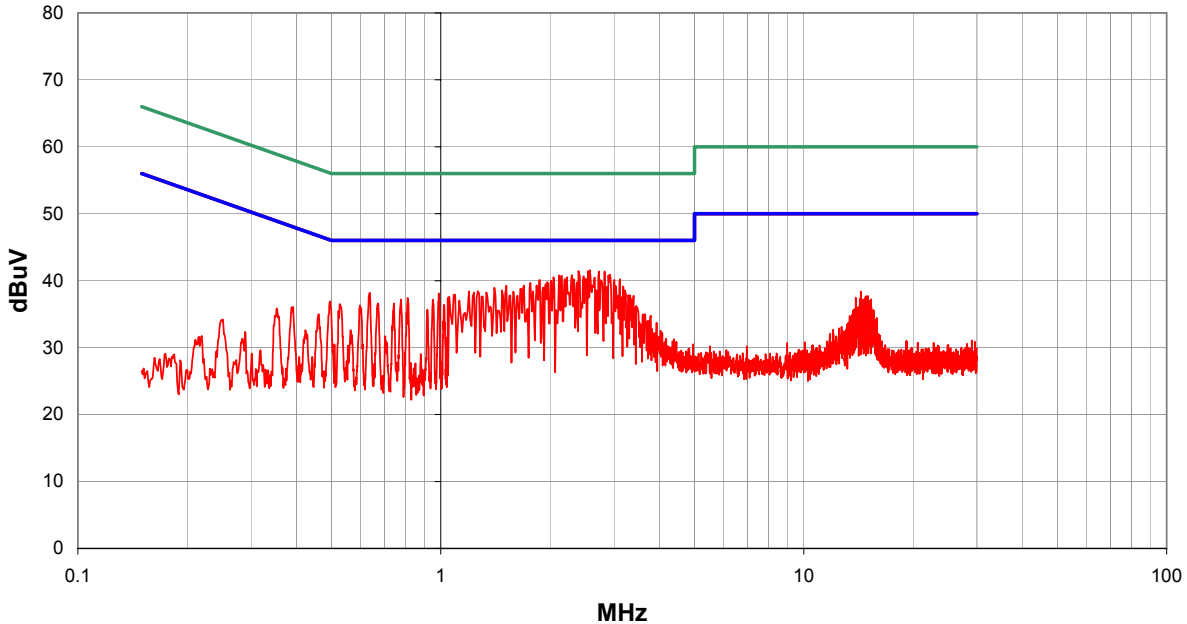
RESULTS

Pass	Line	Run #
	N	14

Other

Holly Ashkannejhad

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)
2.576	21.1	0.0	0.5	20.0		41.6	46.0	-4.4
2.396	21.0	0.0	0.4	20.0		41.4	46.0	-4.6
2.826	20.9	0.0	0.5	20.0		41.4	46.0	-4.6
2.726	20.9	0.0	0.5	20.0		41.4	46.0	-4.6
2.926	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.296	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.116	20.4	0.0	0.4	20.0		40.8	46.0	-5.2
2.156	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
2.476	20.2	0.0	0.4	20.0		40.6	46.0	-5.4
2.046	20.1	0.0	0.4	20.0		40.5	46.0	-5.5
3.116	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
3.006	19.6	0.0	0.5	20.0		40.1	46.0	-5.9
1.875	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
1.965	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
2.376	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
1.765	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
1.695	18.9	0.0	0.4	20.0		39.3	46.0	-6.7
1.515	18.9	0.0	0.4	20.0		39.3	46.0	-6.7
3.176	18.6	0.0	0.5	20.0		39.1	46.0	-6.9



