

Exhibit P: Spurious Conducted Emissions

FCC ID: HN2PC24-11

Justification

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

Channels in Specified Band Investigated:

Low

Mid

High

Operating Modes Investigated:

Typical

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

5VDC

Frequency Range Investigated

Start Frequency	0MHz	Stop Frequency	25GHz
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Software\Firmware Applied During Test

Exercise software	FCCTST24.BIN	Version	Unknown
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Description

The system was tested using the FCCTST24.BIN software to exercise the functions of the device during the testing.

Equipment Modifications

No EMI suppression devices were added or modified. The EUT was tested as delivered.

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT-PCMCIA Card	INTERMEC	P24-11-FC/R	02UT34371446
Extender Card	Swart Interconnect	EXT-PCM-68-SM3	060501-212
Host Device	INTERMEC	2435	27300200205
5VDC Adapter	INTERMEC	0-302029-01	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
5VDC power	No	1.9	PA	5VDC Adapter	EUT

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	03/08/2001	24 mo

Test Description

Requirement: Per 47 CFR 15.247(c), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

Configuration: The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

Completed by:



NORTHWEST
EMC

EMISSIONS DATA SHEET

Transmitters
Rev
df11/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS
None

EUT OPERATING MODES
modulation, low channel

DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

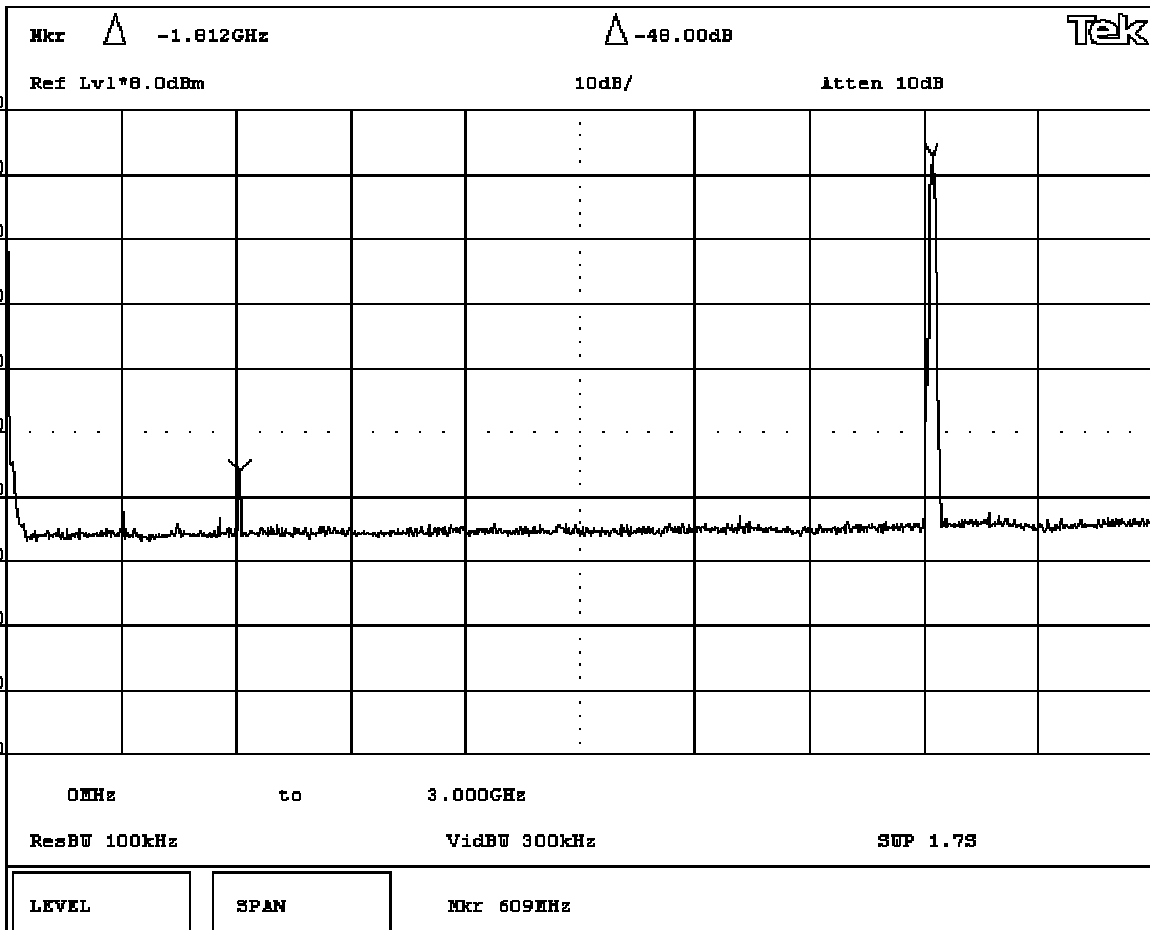
RESULTS
Pass

SIGNATURE

Rodney Le Peloquin

Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev df11/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS
None

EUT OPERATING MODES
modulation, low channel

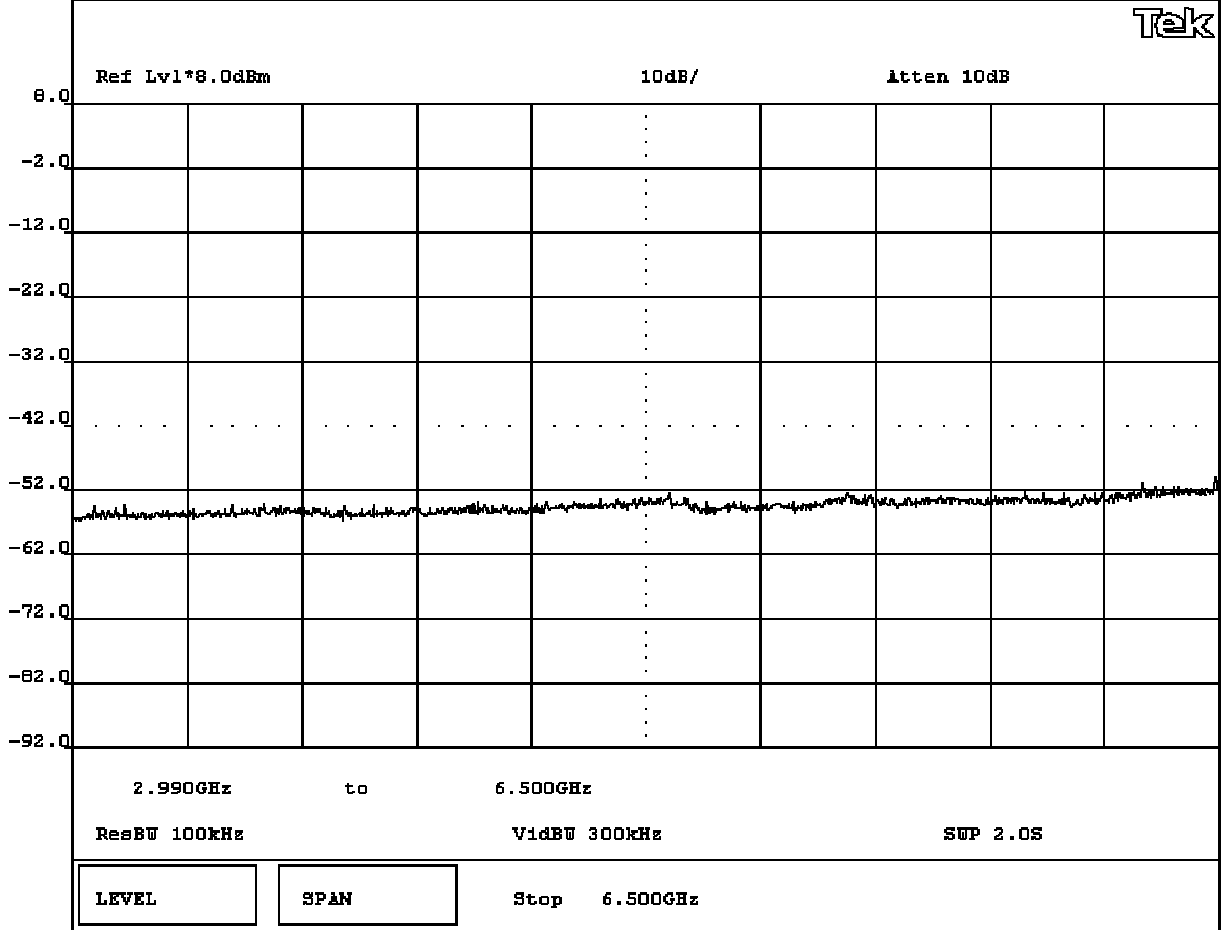
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS
Pass

SIGNATURE
Rod Peloquin
Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev dfl1/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS
None

EUT OPERATING MODES
modulation, low channel

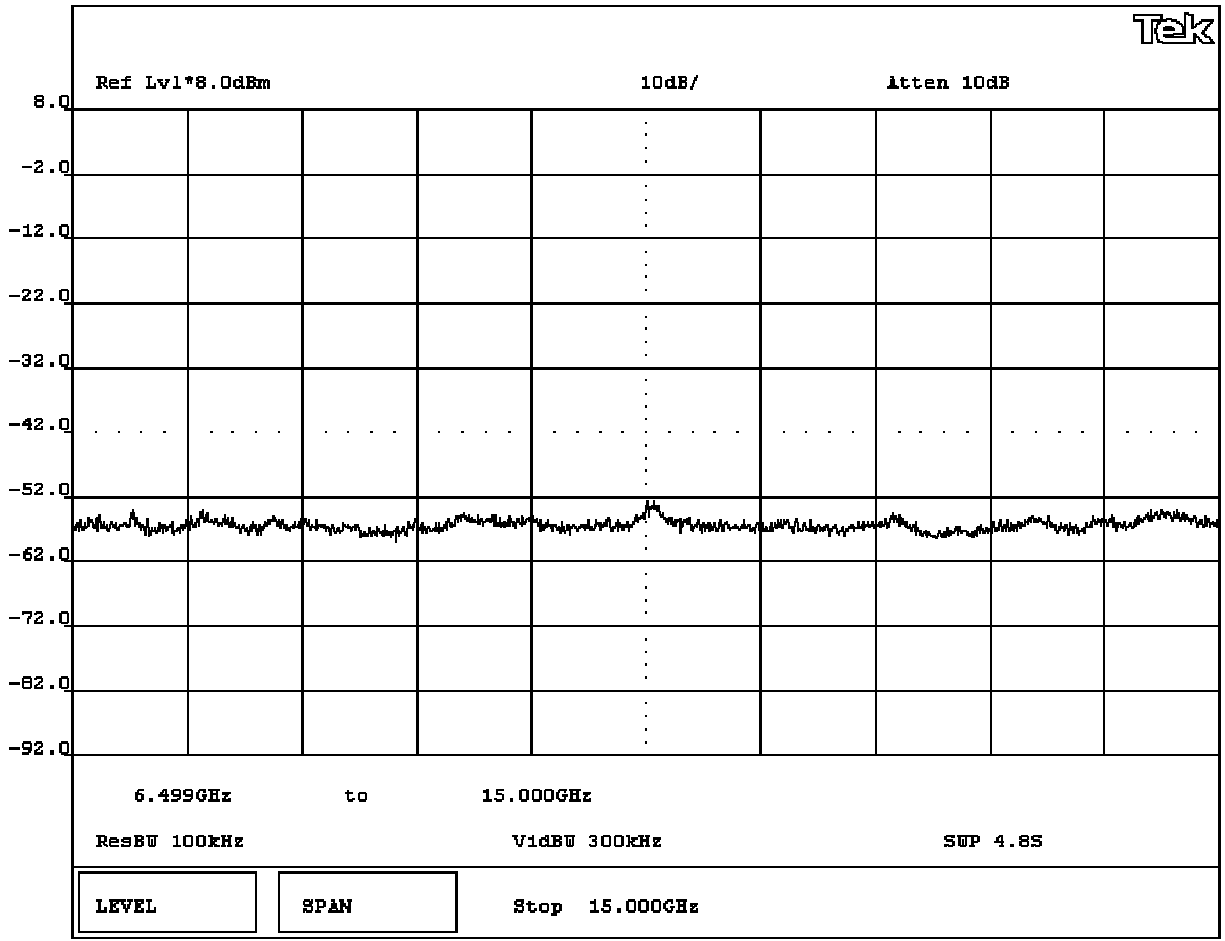
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS
Pass

SIGNATURE
Rod Peloquin
Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev dfl1/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS
None

EUT OPERATING MODES
modulation, low channel

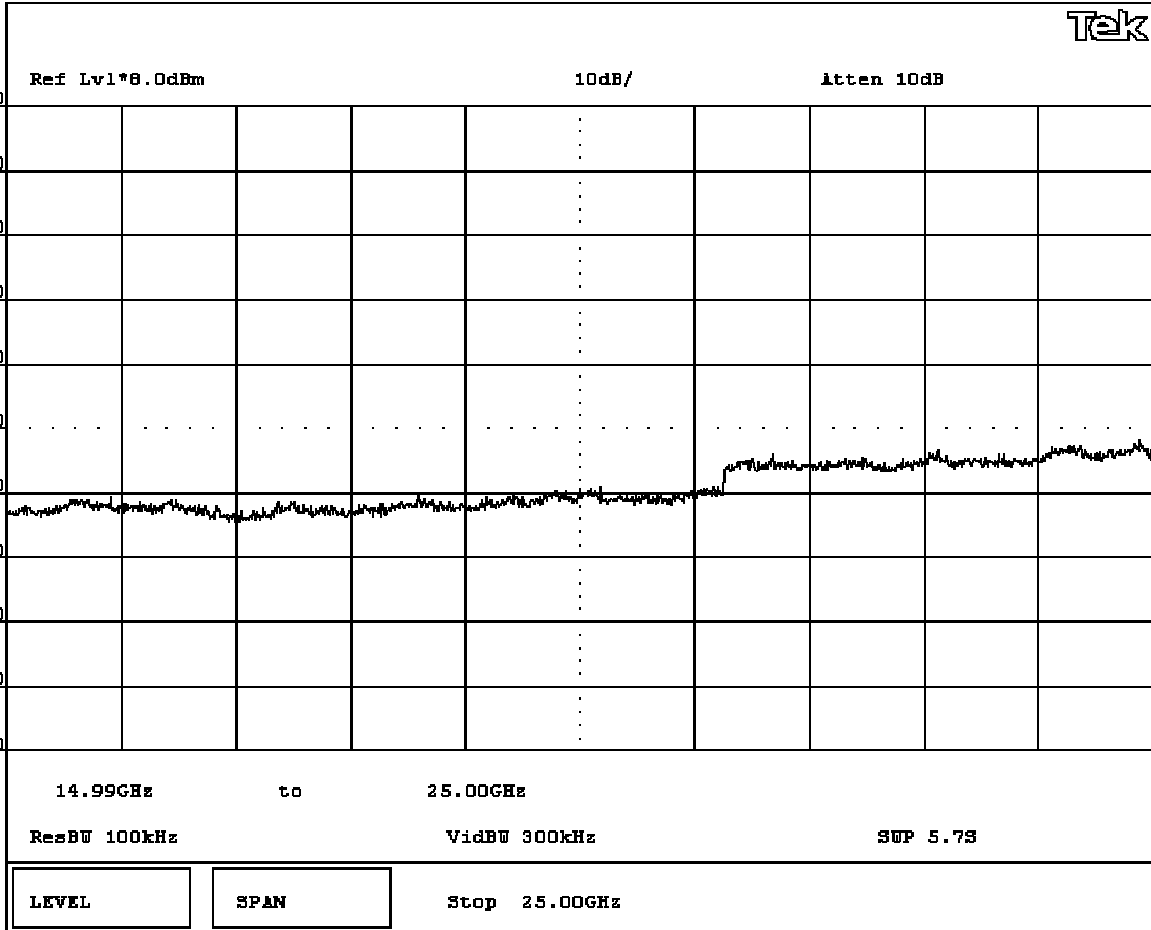
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS
Pass

SIGNATURE
Rod Peloquin
Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - Low Channel 15GHz-25GHz



NORTHWEST
EMC

EMISSIONS DATA SHEET

Transmitters
Rev
df11/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS
None

EUT OPERATING MODES
modulation, mid channel

DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

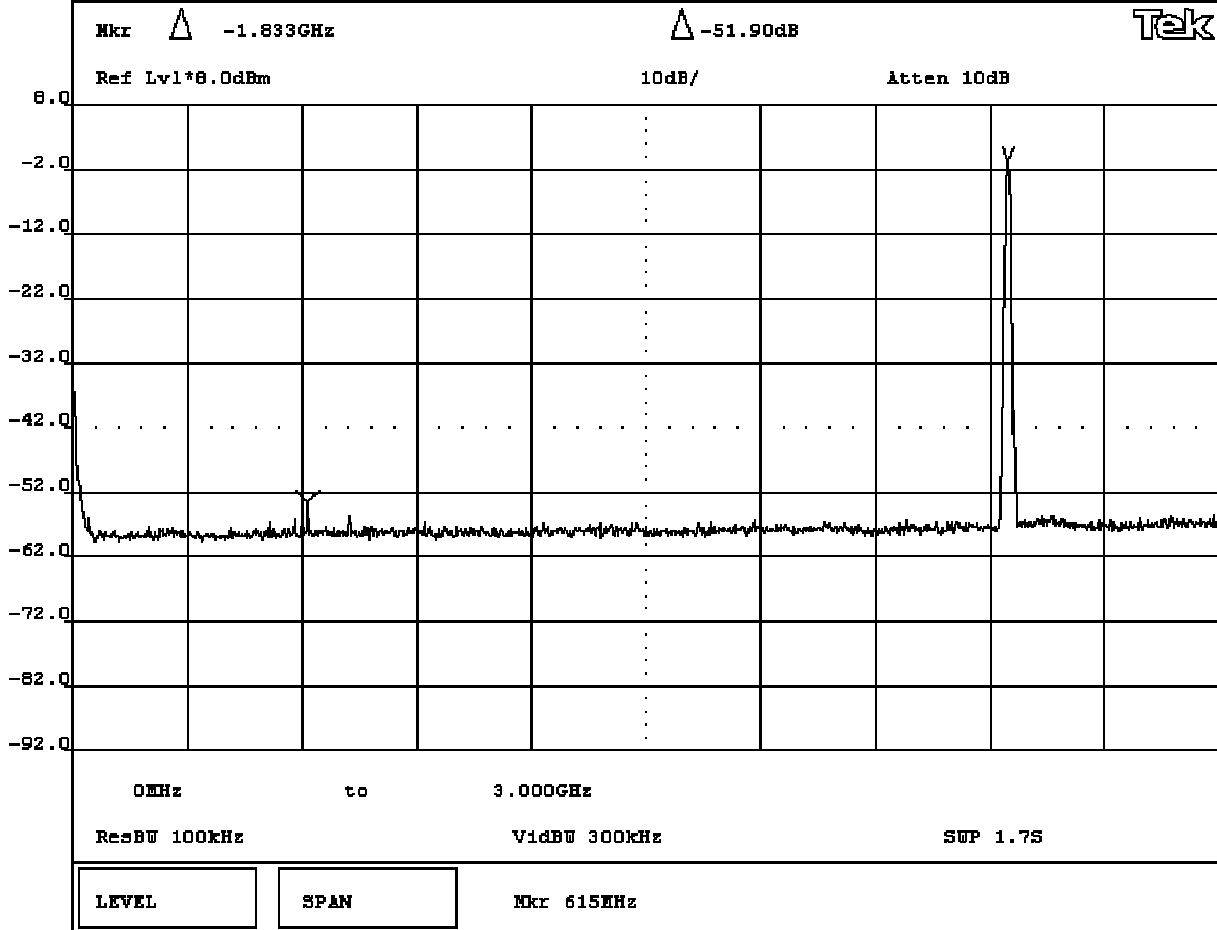
RESULTS
Pass

SIGNATURE

Rod Peloquin

Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev dfl1/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS

COMMENTS

None

EUT OPERATING MODES

modulation, mid channel

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

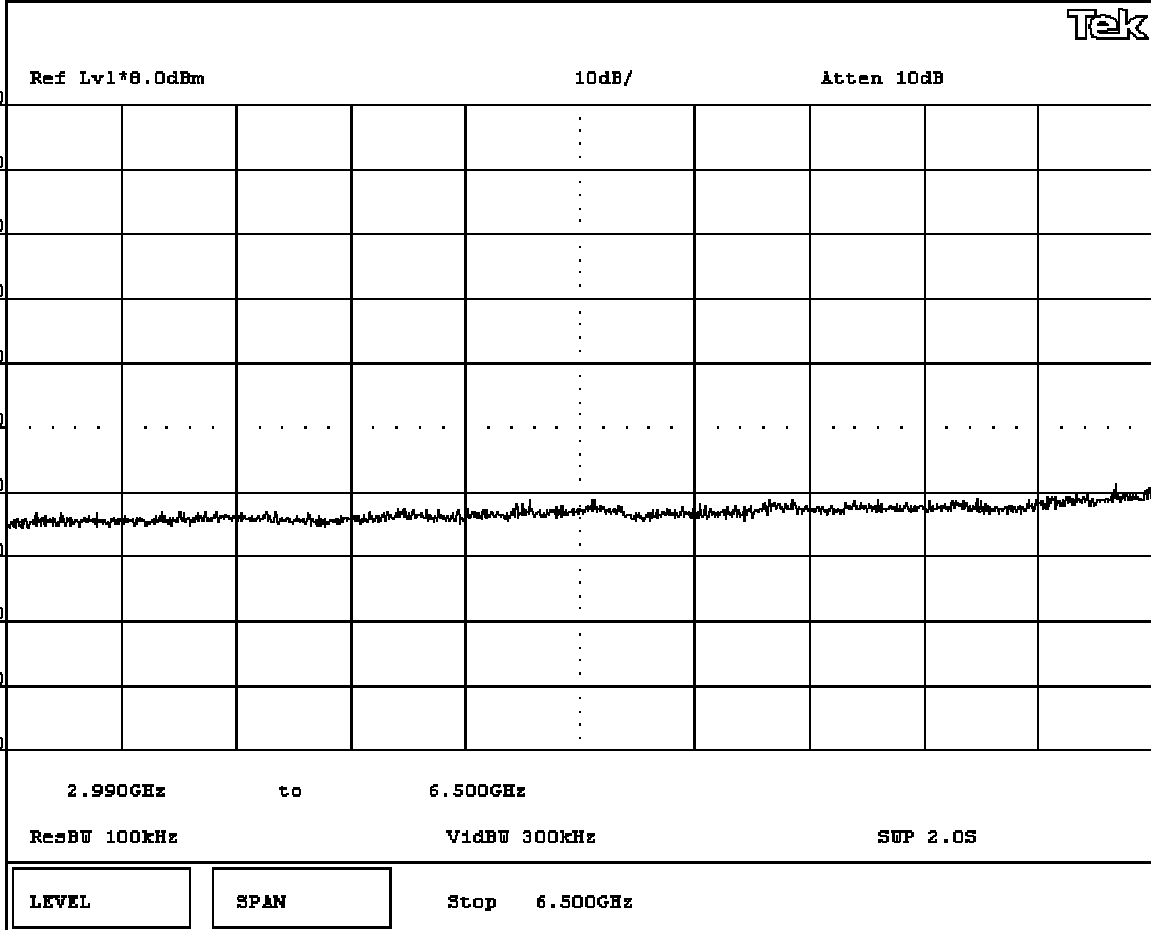
Pass

SIGNATURE

Tested By: *Rod Peloquin*

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev dfl1/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			


COMMENTS
None

EUT OPERATING MODES
modulation, mid channel

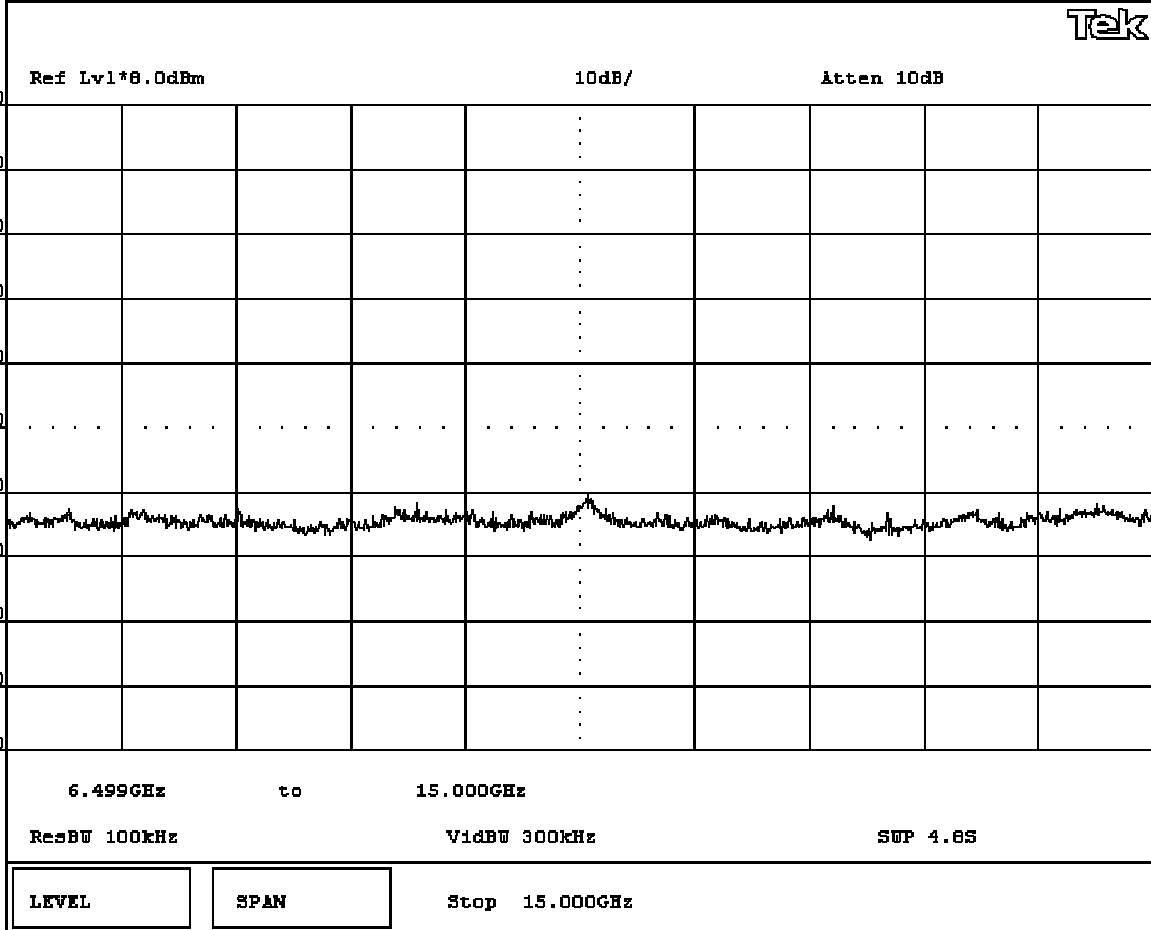
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev dfl1/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS

None

EUT OPERATING MODES

modulation, mid channel

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

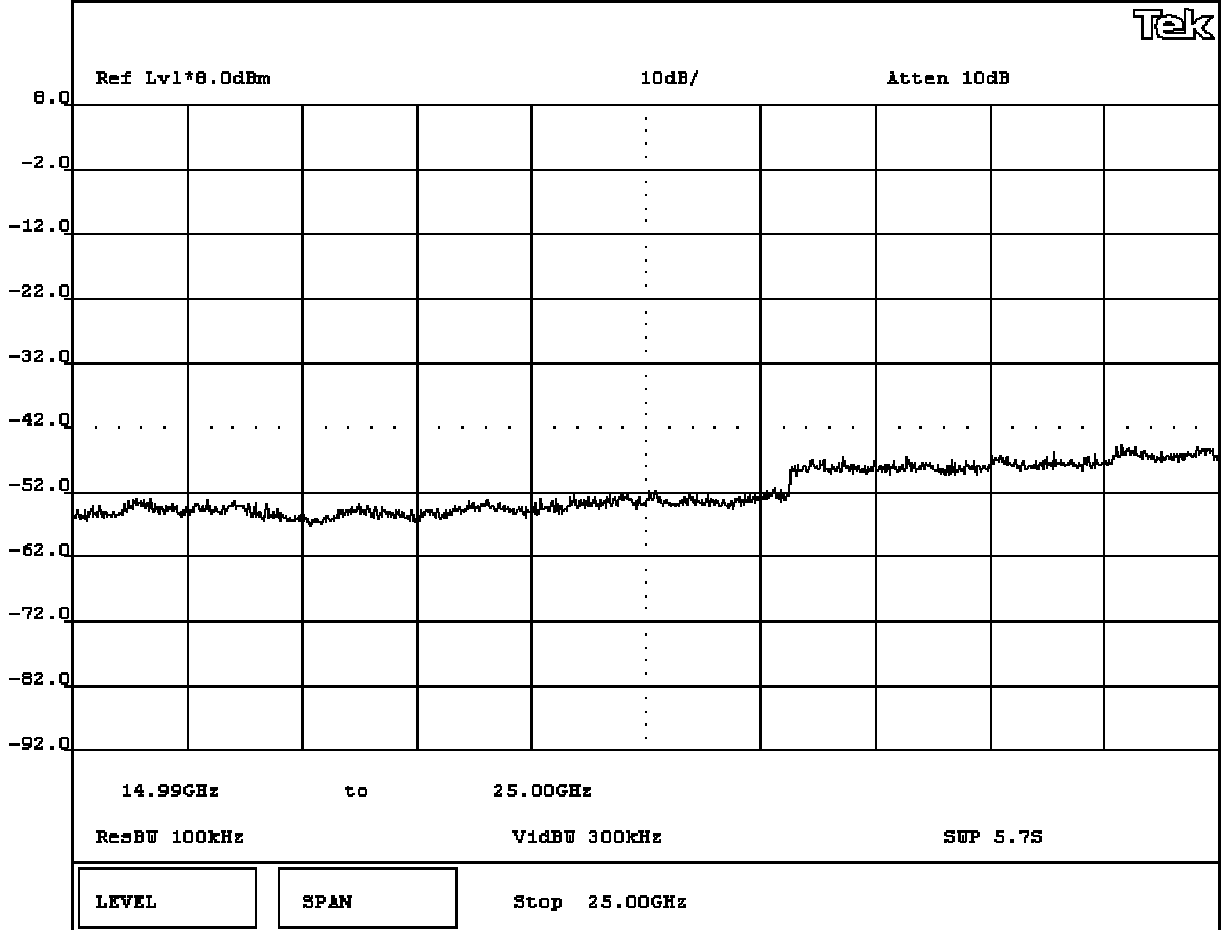
RESULTS

Pass

SIGNATURE

Tested By: *Rod Peloquin*

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz



NORTHWEST
EMC

EMISSIONS DATA SHEET

Transmitters
Rev
df11/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS
None

EUT OPERATING MODES
modulation, high channel

DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

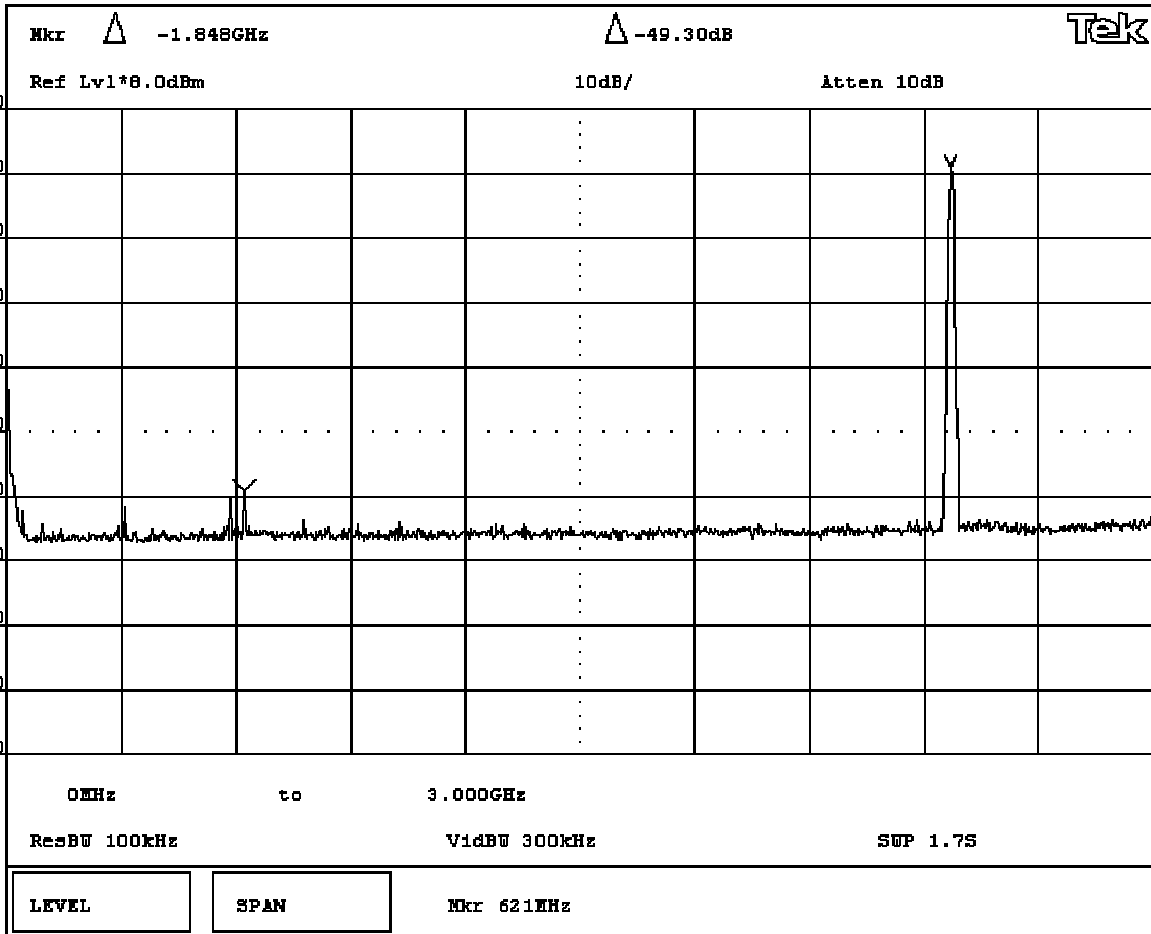
RESULTS
Pass

SIGNATURE

Rod Peloquin

Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz



NORTHWEST
EMC

EMISSIONS DATA SHEET

Transmitters
Rev
df11/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS			
None			

EUT OPERATING MODES			
modulation, high channel			

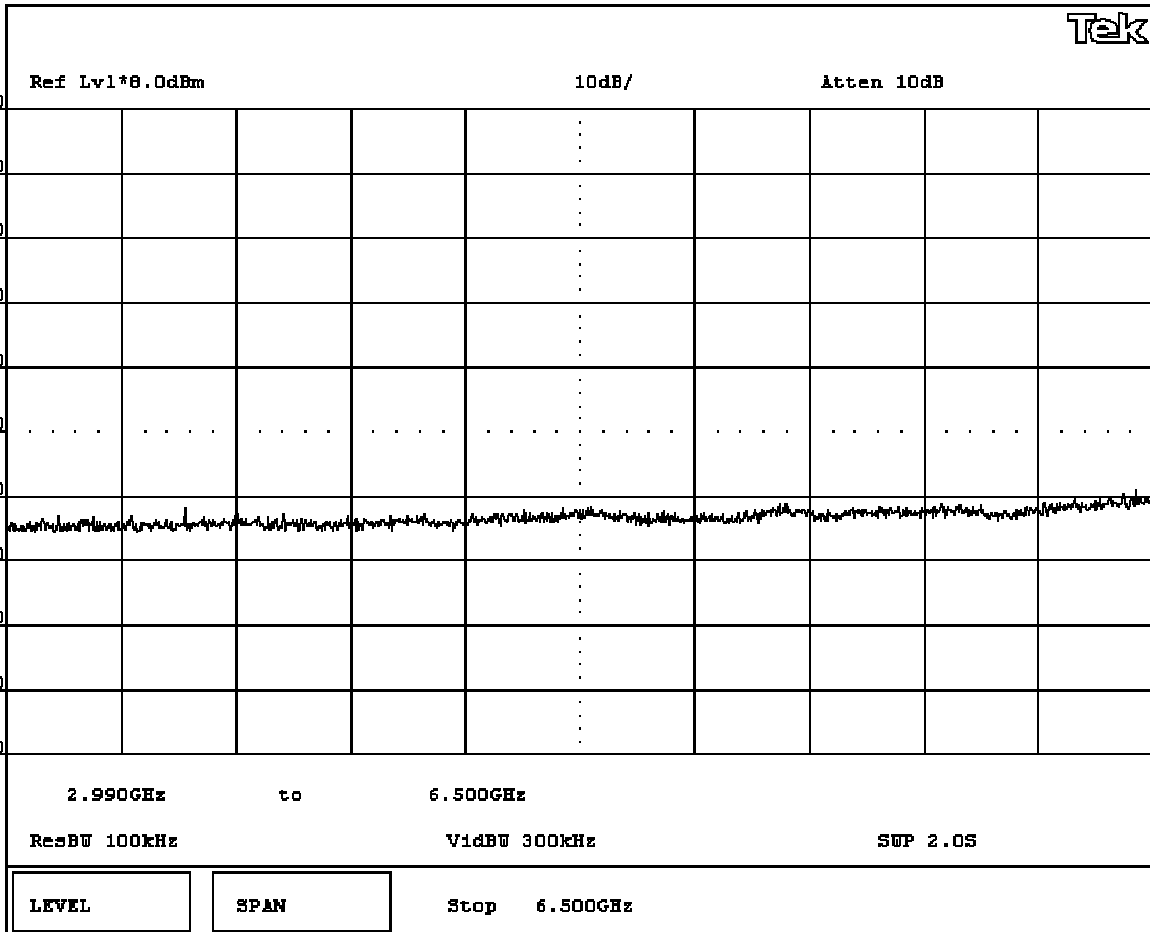
DEVIATIONS FROM TEST STANDARD			
None			

REQUIREMENTS			
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental			

RESULTS			
Pass			

SIGNATURE			
 Tested By: _____			

DESCRIPTION OF TEST			
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz			



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev dfl1/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS

COMMENTS

None

EUT OPERATING MODES

modulation, high channel

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

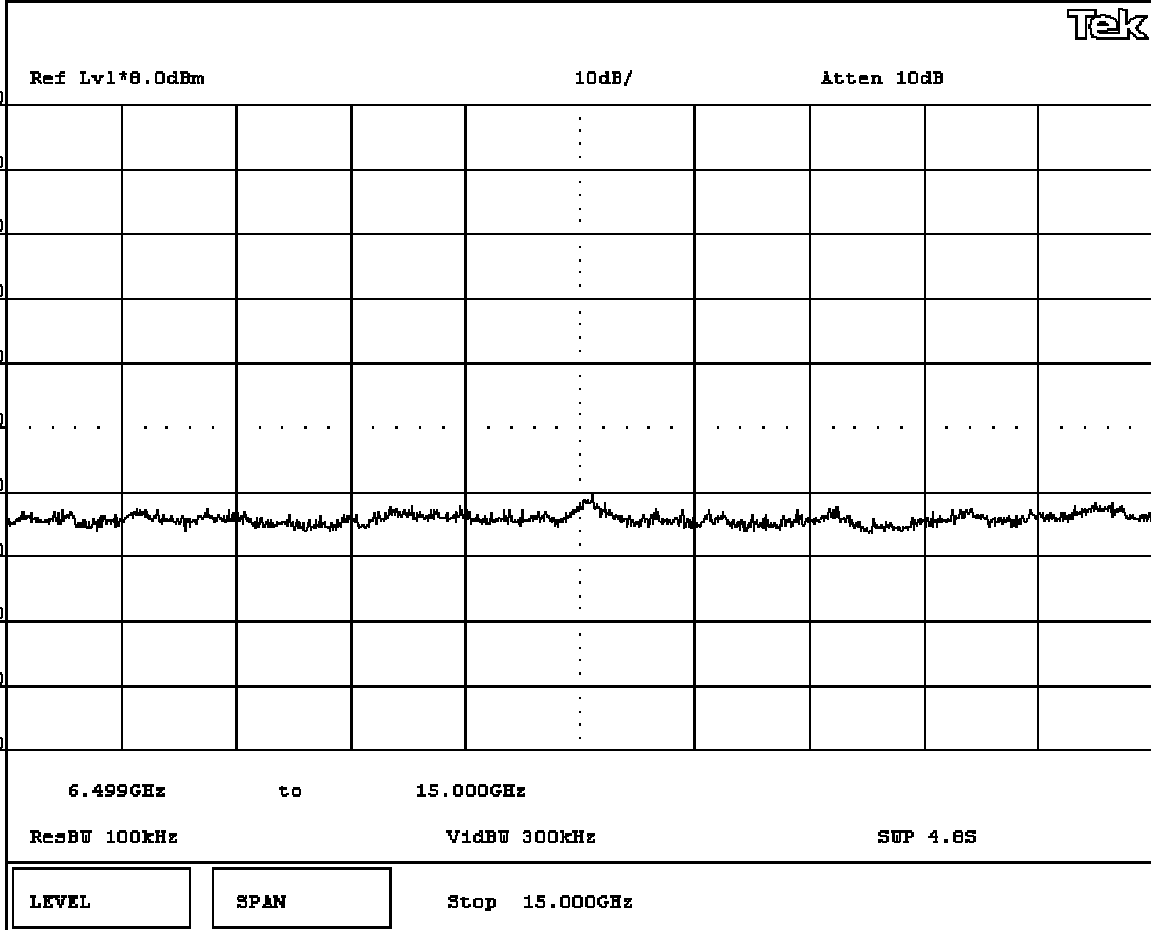
Pass

SIGNATURE

Tested By: *Rod Peloquin*

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz



NORTHWEST **EMC** **EMISSIONS DATA SHEET** Transmitters Rev dfl1/13/02

EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

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

SAMPLE CALCULATIONS			

COMMENTS
None

EUT OPERATING MODES
modulation, high channel

DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS
Pass

SIGNATURE
Rod Peloquin
Tested By: _____

DESCRIPTION OF TEST
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz

