Exhibit M: Occupied Bandwidth

FCC ID: HN2MPCI3A-20

Occupied Bandwidth

Revision 2/4/02

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 Batas Investigated

Data Rates Investigated:	
Maximum	

Output Power Setting(s) Investigated:	
Maximum	

Power Input Settings Investigated:	
DC from E-net	

Software\Firmware Applied During Test							
Exercise software	AP Monitor	Version	V5.97				
Description							
	A notebook PC controls the radio through a serial port connection on the WA22 access point. Hyper Terminal running in Windows 98 address the AP monitor commands for setting the transmit channel and						

Terminal running in Windows 98 address the AP monitor commands for setting the transmit channel and data rate.

Equipment Modifications

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

Occupied Bandwidth

Revision 2/4/02

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT - 802.11(b) radio module installed in WA22 Access Point	Intermec	MPCI3A-20	022-026
Power bridge	Intermec	071579	U01156281006901
Laptop PC	Panasonic	CF-35	7KHSA02247

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Serial cable	Yes	1.5	No	Access Point	Laptop
Ethernet cable	No	7.5	No	Power Bridge	Access Point
AC power	No	1.9	No	Power Bridge	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	03/08/2001	24 mo

Test Description

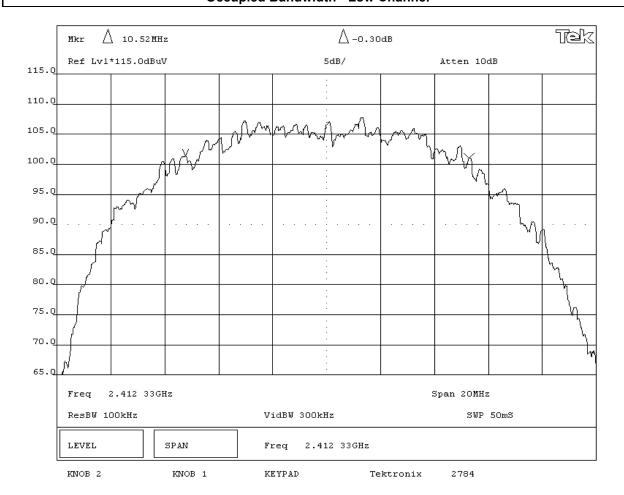
Requirement: Per 47 CFR 15.247(a)(2), the 6 dB bandwidth of a direct sequence channel must be at least 500kHz. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

Configuration: The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation.

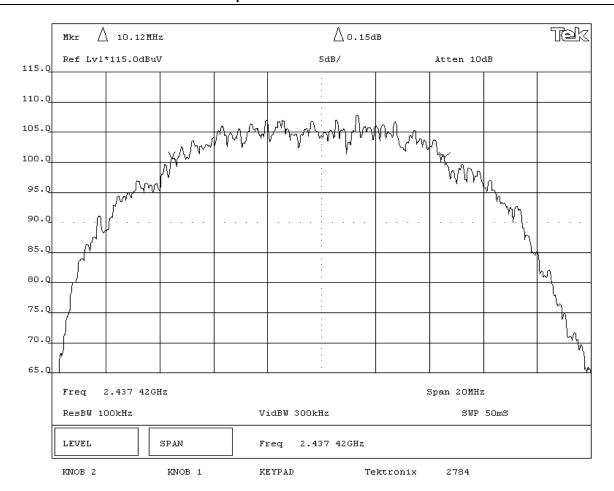
Completed by:

J. K.

REVISIONS DATA SHEET REVISIONS DATA SHEET								
EMC		EMISSIONS I	JATA SIT	CC 1		Rev BETA 01/30/01		
EUT:	MPCI3A-20				Work Order:	INMC0023		
Serial Number:	002-026				Date:	07/23/02		
Customer:	Intermec Corporation				Temperature:	26 degrees C		
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	43% RH		
Customer Ref. No.:	N/A		Power:	DC from E-net	Job Site:	EV06		
TEST SPECIFICATION	IS							
Specification:	47 CFR 15.247(a)(2)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992		
SAMPLE CALCULATION	ONS							
COMMENTS								
Tested in WA22 Acces	ss Point							
EUT OPERATING MOI								
Modulated by PRBS a	t maximum data rate							
DEVIATIONS FROM T	EST STANDARD							
None								
REQUIREMENTS								
The minimum 6dB bar	ndwidth is 500KHz							
RESULTS			BANDWIDTH					
Pass	·	·	10.52 MHz					
SIGNATURE								
Tested By:	Tested By:							
DESCRIPTION OF TES	ST							
	Occupied Bandwidth - Low Channel							



NORTHWEST EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01		
EUT:	MPCI3A-20				Work Order:	INMC0023		
Serial Number:	002-026				Date:	07/23/02		
Customer:	Intermec Corporation					26 degrees C		
Attendees:				Greg Kiemel	Humidity:			
Customer Ref. No.:			Power:	DC from E-net	Job Site:	EV06		
TEST SPECIFICATION								
Specification:	47 CFR 15.247(a)(2)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992		
SAMPLE CALCULATION	ONS							
COMMENTS								
Tested in WA22 Acces								
EUT OPERATING MOD								
Modulated by PRBS a								
DEVIATIONS FROM TI	EST STANDARD							
None								
REQUIREMENTS The minimum 6dB bar	1 : 111 : 5001(1)							
	idwidth is 500KHZ							
RESULTS			BANDWIDTH					
Pass SIGNATURE			10.12 MHz					
Tested By:	AMU.K.P							
DESCRIPTION OF TES	ST .							
	Occupied Bandwidth - Mid Channel							



ROUTHWEST EMISSIONS DATA SHEET REVIBETA							
EMC		EIVII 3310 N 3 I	JATA SIT	CC 1		Rev BETA 01/30/01	
EUT:	MPCI3A-20				Work Order:	INMC0023	
Serial Number:	002-026				Date:	07/23/02	
Customer:	Intermec Corporation				Temperature:	26 degrees C	
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	43% RH	
Customer Ref. No.:	N/A		Power:	DC from E-net	Job Site:	EV06	
TEST SPECIFICATION	IS						
Specification:	47 CFR 15.247(a)(2)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992	
SAMPLE CALCULATION	ONS						
COMMENTS							
Tested in WA22 Acces	ss Point						
EUT OPERATING MOI							
Modulated by PRBS a	t maximum data rate						
DEVIATIONS FROM T	EST STANDARD						
None							
REQUIREMENTS							
The minimum 6dB bar	ndwidth is 500KHz						
RESULTS			BANDWIDTH				
Pass	·	·	9.6 MHz				
SIGNATURE							
Tested By:							
DESCRIPTION OF TES	ST						
Occupied Bandwidth - High Channel							

