Exhibit N: Spurious Conducted Emissions

FCC ID: EJM-X400

Spurious RF Conducted Emissions

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:
High
Mid
Low

Operating Modes Investigated:

Typical

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

120 VAC, 60 Hz.

Frequency Range Investigated				
Start Frequency	1 MHz	Stop Frequency	25 GHz	

Software\Firmware	Applied During Test			
Exercise software	Standard Production Software	Version	2.1.0.104-4400	
Description				
The system was tested using standard operating production software to exercise the functions of the device during the testing. The software resides in Flash on the baseboard of the EUT.				

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
Radio Module	Intel Corporation	WL-350F V05	00904B0A83FD
EUT	Intel Corporation	AnyPoint DSL Gateway 4400	0007E9036749
PC	Dell	Inspiron 7000	9043346BY16251A
EUT Power Supply	CUI Stack	TEAD-48-121200UT	0210

Spurious RF Conducted Emissions

Revision 2/4/02

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
CAT 5 E-net	No	2.0	No	EUT	PC
DC Power	No	1.5	No	EUT Power Supply	EUT
AC Power	No	1.8	No	EUT 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	03/08/2001	24 mo

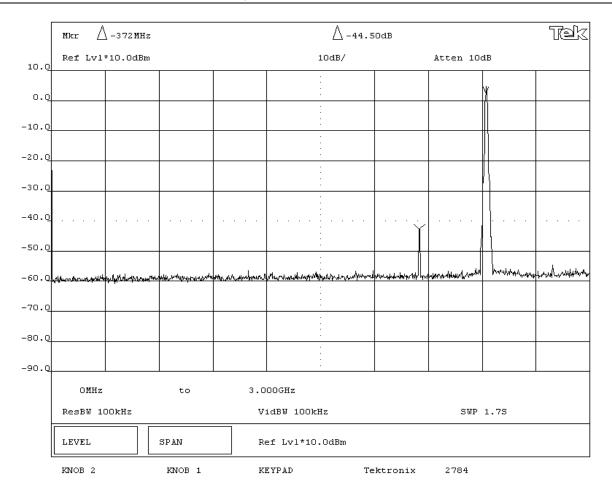
Test Description

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.

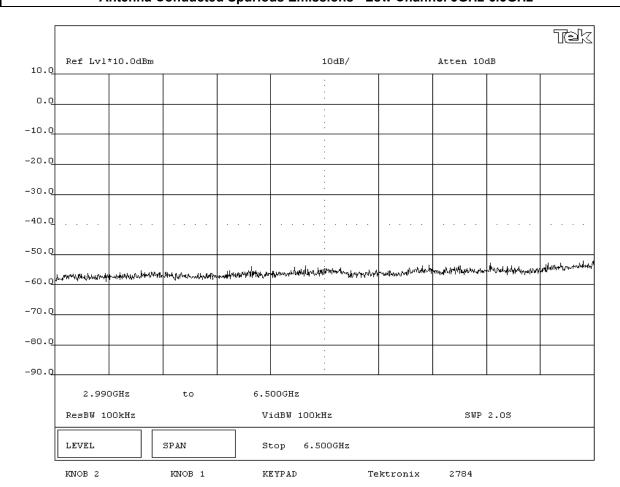
Configuration: The 4400 and 1400 use the same radio module, antennas, power supply, base board layout, and enclosure. The difference is the 4400 has a DSL interface, and the 1400 has an Ethernet interface. Since the radio module is the same, the test was performed in a representative system: the 4400. 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:

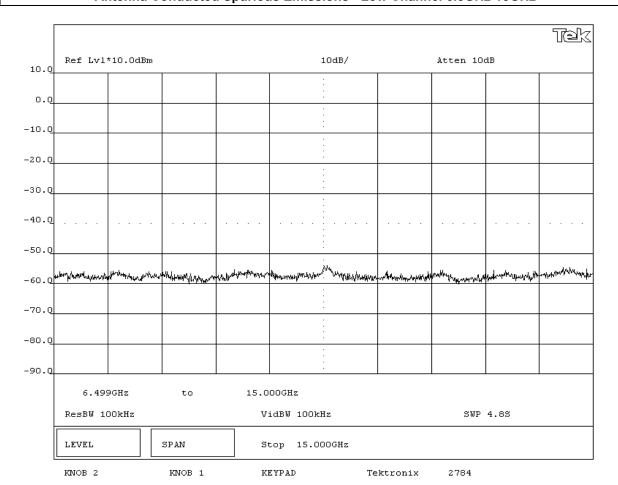
NORTHWEST		EMISSIONS	DATA CH	CCT		
EMC		EMISSIONS	DATA SIT	CCI		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS						
WL-350F installed in E	UT					
EUT OPERATING MOI	DES					
Modulated by stream	of "1010101" data at maximum da	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down fr	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Antenna Cond	ducted Spurious En	nissions - Lov	Channel 0MH	lz-3GHz	



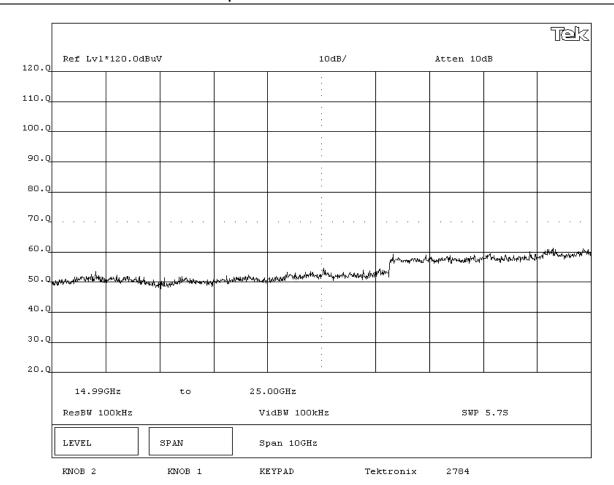
EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	is					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	4 Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS						
WL-350F installed in E						
EUT OPERATING MO						
	of "1010101" data at maximum da	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS	anurious amission sutside of the	authorized band is 20 dB down fro	um the fundamental			
RESULTS	spurious emission outside of the	authorized band is 20 dB down in	om the fundamental			
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES		cted Spurious Emis	ssions - Low	Channel 3GH	lz-6 5GHz	



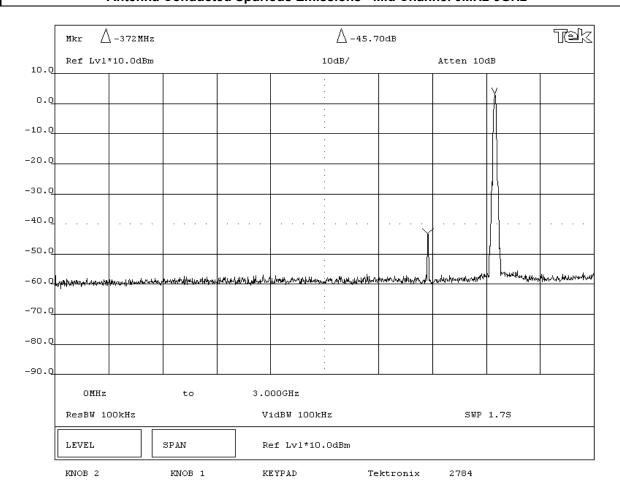
EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS						
WL-350F installed in I	FUT					
EUT OPERATING MO						
	of "1010101" data at maximum da	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Antenna Condu	cted Spurious Emis	sions - Low	Channel 6.5G	Hz-15GHz	•



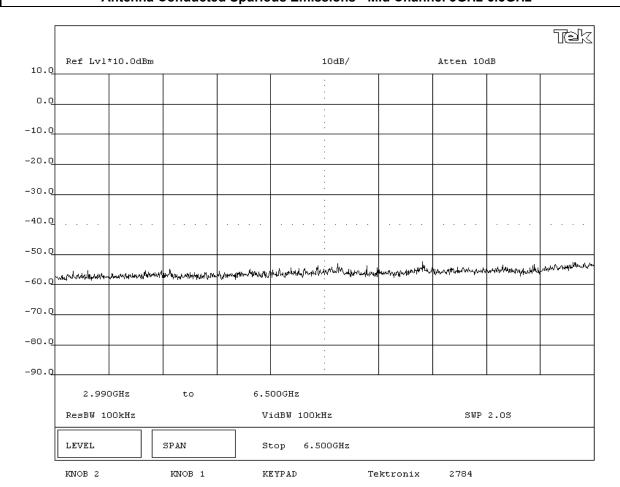
NORTHWEST ENC	MISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT: AnyPoint DSL Gateway 4400				Work Order	INTE4561
Serial Number: 0007E9036749				Date	05/21/02
Customer: Intel Corporation				Temperature:	21 degrees C
Attendees: Mike Espig			Greg Kiemel	Humidity	
Customer Ref. No.: N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c) Y	ear: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992
SAMPLE CALCULATIONS					
COMMENTS					
WL-350F installed in EUT					
EUT OPERATING MODES					
Modulated by stream of "1010101" data at maximum data rate,	maximum output power				
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the author	ized band is 20 dB down fro	om the fundamental			
RESULTS					
Pass					
SIGNATURE					
Tested By:					
DESCRIPTION OF TEST					
Antenna Conducted	Spurious Emis	sions - Low (Channel 15GF	ız - 25GHz	



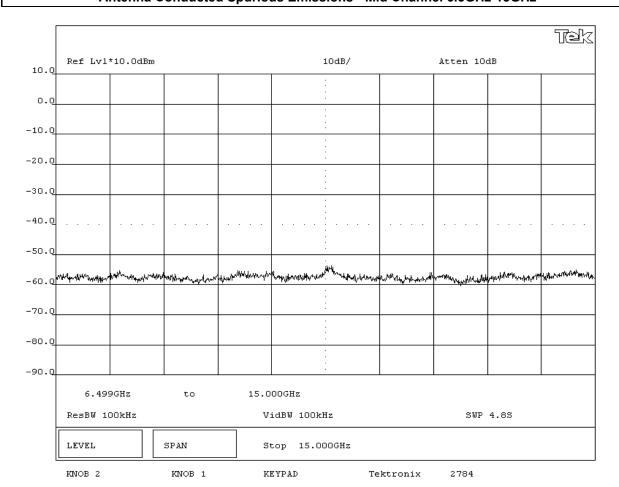
NORTHWEST		EMISSIONS I	DATA SH	EET		Rev BETA
				<u> </u>		01/30/01
	AnyPoint DSL Gateway 4400				Work Order:	
	0007E9036749					05/21/02
	Intel Corporation			Г		21 degrees C
	Mike Espig			Greg Kiemel	Humidity:	
Customer Ref. No.:			Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification: SAMPLE CALCULATI	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
COMMENTS						
WL-350F installed in I	FUT					
EUT OPERATING MO						
	of "1010101" data at maximum data	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Antenna Cond	ucted Spurious Em	issions - Mid	Channel 0M	Hz-3GHz	



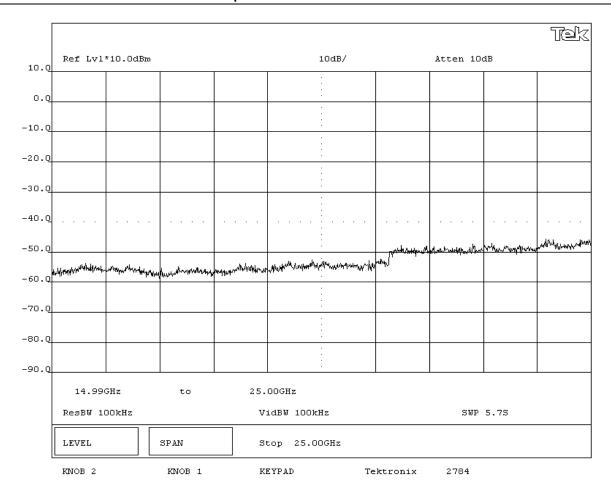
EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	is					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992
SAMPLE CALCULATION	ONS					
OOMUSNITA						
COMMENTS WL-350F installed in E	-117					
EUT OPERATING MO						
	of "1010101" data at maximum da	ta rate maximum output nower				
DEVIATIONS FROM T		ta rate, maximum output power				
None	EST STANDARD					
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down fro	m the fundamental			
RESULTS	•					
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES		icted Spurious Emi	ssions - Mid	Channel 3GH	z-6 5GHz	



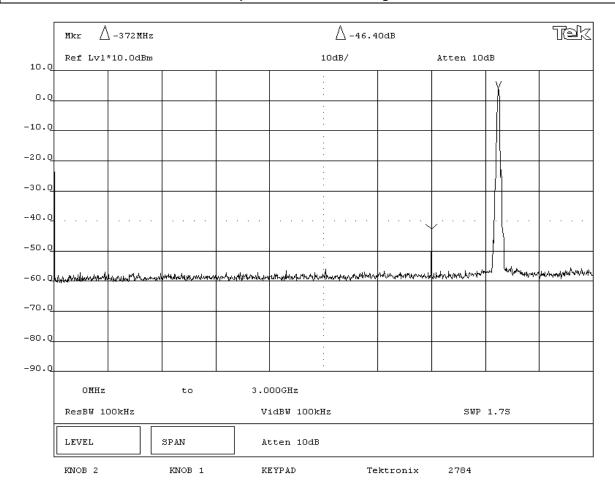
EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS WL-350F installed in I						
EUT OPERATING MO	of "1010101" data at maximum da	ta rate maximum output nower				
DEVIATIONS FROM T		ta rate, maximum output power				
None	EST STANDARD					
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down fro	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE						
1	Antenna Condu	cted Spurious Emis	sions - Mid (Channel 6 5G	Hz-15GHz	



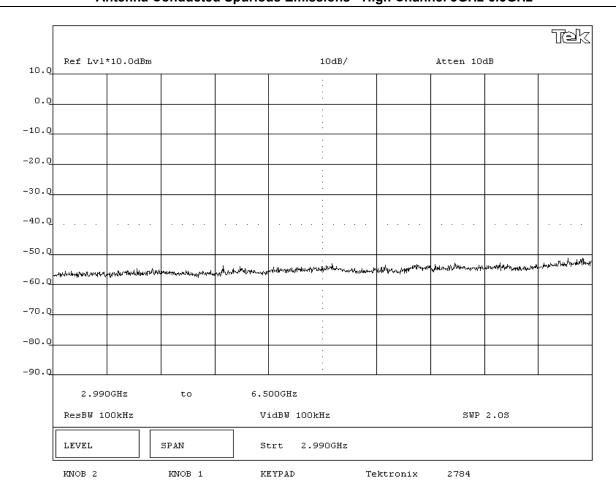
EMC EMISSIONS DATA SHEET									
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561			
Serial Number:	0007E9036749				Date:	05/21/02			
Customer:	Intel Corporation					21 degrees C			
Attendees:				Greg Kiemel	Humidity:				
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATION									
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992			
COMMENTS WL-350F installed in E									
EUT OPERATING MOD	DES								
Modulated by stream of	of "1010101" data at maximum da	ta rate, maximum output power							
DEVIATIONS FROM TE	EST STANDARD								
None									
REQUIREMENTS									
	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental						
RESULTS									
Pass									
SIGNATURE									
Tested By:									
DESCRIPTION OF TES	DESCRIPTION OF TEST								
	Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz								



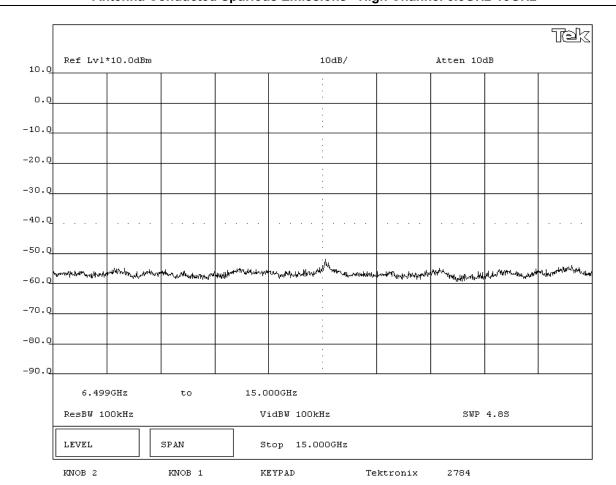
NORTHWEST EMC		EMISSIONS [DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	S					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS WL-350F installed in E	UT					
EUT OPERATING MOD	DES					
Modulated by stream of	of "1010101" data at maximum d	ata rate, maximum output power				
DEVIATIONS FROM TE	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of th	e authorized band is 20 dB down fro	m the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	T					
	Antenna Cond	ucted Spurious Emi	ssions - High	n Channel 0MI	Iz-3GHz	•



EMC	EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT: AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number: 0007E9036749				Date:	05/21/02
Customer: Intel Corporation				Temperature:	21 degrees C
Attendees: Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.: N/A		Power:	120V, 60 Hz	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 WL-350F installed in EUT					
EUT OPERATING MODES Modulated by stream of "1010101" data at maximum da	ta rate maximum output nower				
DEVIATIONS FROM TEST STANDARD	ta rate, maximum output power				
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the	authorized band is 20 dB down fro	om the fundamental			
RESULTS					
Pass					
SIGNATURE					
Tested By:					
DESCRIPTION OF TEST Antenna Condu	cted Spurious Emis	sions - High	Channel 3GH	7-6 5GHz	



EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS WL-350F installed in I						
EUT OPERATING MO						
	of "1010101" data at maximum da	ta rate maximum output nower				
DEVIATIONS FROM T		tta rate, maximum output power				
None	EST STANDARD					
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down fro	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	st					
	Antenna Conduc	cted Spurious Emis	sions - High	Channel 6.50	Hz-15GHz	•



NORTHWEST		EMISSIONS I	DATA SH	EET		Rev BETA
				<u> </u>		01/30/01
	AnyPoint DSL Gateway 4400				Work Order:	
	0007E9036749					05/21/02
	Intel Corporation			I		21 degrees C
	Mike Espig			Greg Kiemel	Humidity:	
Customer Ref. No.:			Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION		V W 10		E00.07.444.4N01.000	4	4000
Specification: SAMPLE CALCULATI	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
COMMENTS						
WL-350F installed in I	FUT					
EUT OPERATING MO						
	of "1010101" data at maximum data	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Antenna Conduc	cted Spurious Emis	sions - High	Channel 15G	Hz-25GHz	

