

Measurement/Technical Report

Intel Corporation

Model: EtherExpress™Pro/100+Managed PCI LAN Adapter

FCC ID: EJMNPDALBANY

November 18, 1998

This report concerns (check one):		Original Grant <u>X</u>	Class II Change <u> </u>
Equipment Type: <u>Class B Computing Device / LAN Adapter</u>			
Deferred grant requested per 47 CFR 0.457 (d)(1)(ii)?		yes <u> </u> no <u>X</u>	
If yes, defer until:		<u>N/A</u> date	
Intel Corporation <u> </u> agrees to notify the Commission by:		<u>N/A</u> date	
of the intended date of announcement of the product so that the grant can be issued on that date.			
Transition Rules Request per 15.37:		yes <u> </u> no <u>X</u>	
If no, assumed Part 15, Subpart B for unintentional radiators - new 47 CFR [10-1-92] provision.			
Report prepared by:	Northwest EMC, Inc. 120 South Elliott Road, Suite 300 Newberg, OR 97132 (503) 537-0728 fax: (503) 537-0735		
Report No. INTE2335			

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1.0 General Information

1.1 Product Description

Manufactured By.....Intel Corporation
Address..... 5200 NE Elam Young Parkway Hillsboro, OR 97124
Test Requested By: Nelson H. Wong
ModelEtherExpress™ Pro/100+ Managed PCI LAN Adapter
FCC ID..... EJMNPDALBANY
Serial Number(s).....F4C, F67, FD9
Date of Test November 16, 1998 through November 18, 1998
Job Number INTE2335

The Equipment Under Test (EUT) is the Intel Corporation, EtherExpress™ Pro/100+ Managed PCI LAN Adapter and EtherExpress™ Pro/100+ Managed Server Adapter, Serial Numbers F4C, F67, and FD9., PCB Model No. PB721503-004, FCC ID: EJMNPDALBANY. The EUT is a printed wire assembly containing circuitry that, when installed inside an IBM PC or compatible personal computer, provides data communications in an ethernet environment.

Hardware Description:

- Clocks/Oscillators Frequencies: Oscillator 25 MHz, 125 MHz clock

1.2 Related Submittals/Grants

None.

1.3 Tested System Details

EUT and Peripherals

Item	FCC ID	Description and Serial No.
EUT	EJMNPDALBANY	Intel Corporation EtherExpress™ Pro/100+ Managed PCI LAN Adapter, Serial No.s F4C, F67, FD9, PCB No. PB721503-004.
Printer	B94C2121X	Hewlett Packard Model C2121A, Serial No. US39J25029.
Printer	B94C2114X	Hewlett Packard Model C2114A, Serial No. MY41Q1D0Z7.
PS/2 Mouse	DZL33G5430	IBM Model 33G5430, Serial No. 23-A18642.
Keyboard	GYUR26SK	Dell Model SK-1000REW.
Monitor	A3DJC-1532VMA	NEC Model JC-1532VMA-2, Serial No. 3996154NA.
Host PC	n/a	Gateway 2000 Model LPMINI-Desktop G6-400, Serial No. 001319813.
Remote System	EJMNIENDVR	Intel Model S100MTE8LC, Serial No. A05562464.
Remote Monitor	A3DJC-1532VMR	NEC Model JC-1532VMA-2, Serial No. 2YM57756A.
Remote Keyboard	D7J2196003-XX	Gateway 2000 Model 2196003, Serial No. 57051925.
Remote LAN Card	EJMNPDPILA8465B	Intel Pro/100, Serial No. 00ADC91F09E2.

Cables:

Item	Description
Parallel Printer Cable	1 meter in length. Shielded with braid over foil and no ferrite beads. Connected from the host PC parallel port to the parallel printer.
Network Cable (CAT 5)	80 meters in length. Unshielded and no ferrite beads. Plastic RJ-45 connectors. Connected from the EUT to the remote LAN Card.
Serial Printer Cable	1 meter in length. Shielded with no ferrite beads. Connected from the COM1 port of the host PC to the serial printer.
Video Cable	1.8 meters in length. Shielded, with a metal backshell and one molded ferrite bead at the PC end of the cable. Permanently attached to the monitor and connected to the AGP port of the host PC.
Mouse Cable	2.4 meters in length. Metal connector backshells. Permanently attached to the mouse and connected to a 9-pin to PS/2 adapter that is connected to the Host PC mouse port (supplied with the mouse).
Keyboard Cable	1.2 meters in length (Coiled), with a metal connector backshell. Permanently attached to the keyboard and connected to the PS/2 keyboard port of the EUT.
Serial Printer DC Cable	1.9 meters in length. No shielding and no ferrite beads. Permanently attached to the serial printer AC adapter and connected to the serial printer.
Serial Printer AC Cable	1.9 meters in length. No shielding and no ferrite beads. Permanently attached to the serial printer AC adapter and connected to the AC Mains.
Parallel Printer DC Cable	1.8 meters in length. No shielding and no ferrite beads. Permanently attached to the parallel printer AC adapter and connected to the AC Mains.
Parallel Printer AC Cable	1.8 meters in length. No shielding and no ferrite beads. Permanently attached to the parallel printer AC adapter and connected to the AC Mains.
Monitor AC Cable	1.9 meters in length. No shielding and no ferrite beads. Connected from AC input of the monitor to the AC mains.
EUT Power	1.9 meters in length. No shielding and no ferrite beads. Connected from AC input of the EUT to the AC mains.

1.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (1992). Radiated testing was performed at an antenna to EUT distance of 10 meters. Please reference Appendix I for further detail on Test Methodology.

1.5 Test Facility

The Open Area Test Site and conducted measurement facility used to collect the radiated and conducted data is located at

Northwest EMC, Inc.
120 South Elliott Road, Suite 300
Newberg, OR 97132
(503) 537-0728
Fax: 537-0735

The Open Area Test Site, and conducted measurement facility is located in Newberg, OR, at the address shown above. These sites have been fully described in reports filed with the FCC (Federal Communications Commission), and accepted by the FCC in letters maintained in our files.

Northwest EMC, Inc. is recognized under the United States Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. NVLAP Lab Code: 200059-0.

Northwest EMC, Inc. has been assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).

3.0 System Test Configuration

3.1 Justification

While prescanning the emissions, all operating modes of the EUT were investigated. This included all available data rates. The EUT was connected to a remote PC, via a network cable. The EUT was then set up to continuously transmit and receive data packets to the remote PC. This allowed the EUT to be fully functional for the test.

3.2 EUT Exercise Software

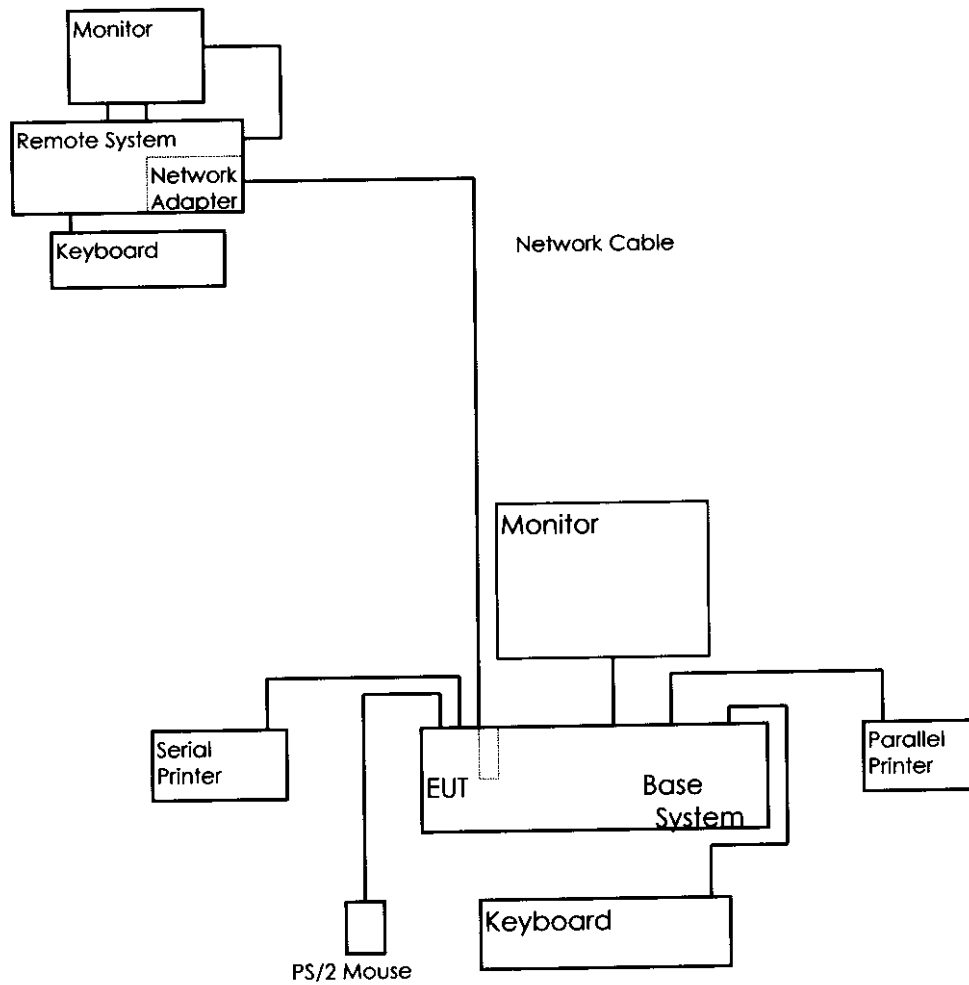
The EUT was transmitting data using **ST.EXE** software, operating under the **DOS 6.1** operating system. This allowed the EUT to continuously transmit and receive data packets to the remote PC. This software was used since it would allow full functionality to the EUT.

3.3 Special Accessories

No special accessories will be sold with the EUT.

3.4 Equipment Modifications

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

Figure 3.1: Configuration of Tested System

6.0 Conducted Emissions Data

6.1 The initial step in collecting conducted data is a spectrum analyzer, peak scan of the entire measurement range. All signals with less than 2 dB margin are then measured using a quasi-peak detector. Complete graphs and data sheets may be referenced on the following pages. Minimum margins are listed below:

CISPR 22 Class B Specification Limits

Serial No. F67 w/aux power cable, 10 Mbps

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.422	35.1	47.4	12.3	High
0.418	34.2	47.5	13.3	High
0.425	34.0	47.4	13.4	High
1.243	32.3	46.0	13.7	High
0.311	35.9	49.9	14.0	High
Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
1.243	33.2	46.0	12.8	Low
0.419	32.5	47.5	15.0	Low
0.240	37.1	52.1	15.0	Low
0.423	32.1	47.4	15.3	Low
0.426	31.9	47.3	15.4	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 12.3 dB.

Serial No. F67 w/aux power cable, 100 Mbps

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.421	35.0	47.4	12.4	High
0.239	39.3	52.1	12.8	High
0.424	34.0	47.4	13.4	High
0.242	38.4	52.0	13.6	High
0.418	33.6	47.5	13.9	High
Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.420	32.6	47.5	14.9	Low
0.239	36.9	52.1	15.2	Low
0.418	31.9	47.5	15.6	Low
0.426	31.7	47.3	15.6	Low
0.423	31.6	47.4	15.8	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 12.4 dB.

6.0 Conducted Emissions Data con't

Serial No. F67 w/o aux power cable, 10 Mbps

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.419	35.8	47.5	11.7	High
0.414	35.5	47.6	12.1	High
0.244	39.8	52.0	12.2	High
0.312	37.4	49.9	12.5	High
0.416	35.0	47.5	12.5	High

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
1.255	32.8	46.0	13.2	Low
0.616	32.4	46.0	13.6	Low
0.418	33.7	47.5	13.8	Low
1.182	31.7	46.0	14.3	Low
0.421	32.7	47.4	14.7	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 11.7 dB.

Serial No. F67 w/o aux power cable, 100 Mbps

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.622	36.3	46.0	9.7	High
1.251	35.6	46.0	10.4	High
0.418	35.6	47.5	11.9	High
0.416	35.5	47.5	12.0	High
0.244	38.9	52.0	13.1	High

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.618	32.9	46.0	13.1	Low
1.255	32.9	46.0	13.1	Low
0.624	32.5	46.0	13.5	Low
1.182	32.4	46.0	13.6	Low
0.621	32.3	46.0	13.7	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 9.7 dB.

6.0 Conducted Emissions Data con't

Serial No. F4C w/aux power cable, 10 Mbps

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.424	34.2	47.4	13.2	High
0.422	33.5	47.4	13.9	High
0.420	33.0	47.4	14.4	High
1.255	31.4	46.0	14.6	High
0.427	32.7	47.3	14.6	High

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
1.247	31.8	46.0	14.2	Low
0.425	32.7	47.4	14.7	Low
13.784	35.3	50.0	14.7	Low
0.422	32.0	47.4	15.4	Low
0.970	29.6	46.0	16.4	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 13.2 dB.

Serial No. F4C w/aux power cable, 100 Mbps

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
18.443	42.1	50.0	7.9	High
0.809	36.1	46.0	9.9	High
0.582	35.3	46.0	10.7	High
15.816	39.1	50.0	10.9	High
1.313	34.8	46.0	11.2	High

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.810	42.5	46.0	3.5	Low
1.822	42.5	46.0	3.5	Low
0.584	41.4	46.0	4.6	Low
4.519	41.1	46.0	4.9	Low
18.417	44.6	50.0	5.4	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 3.5 dB.

6.0 Conducted Emissions Data con't

Serial No. FD9 w/aux power cable, 10 Mbps

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.420	35.0	47.5	12.5	High
.0424	34.7	47.4	12.7	High
0.422	34.3	47.4	13.1	High
0.419	34.1	47.5	13.4	High
1.243	32.3	46.0	13.7	High

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
1.243	32.7	46.0	13.3	Low
13.704	36.3	50.0	13.7	Low
0.422	32.9	47.4	14.5	Low
0.243	36.9	52.0	15.1	Low
0.242	36.9	52.0	15.1	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 12.5 dB.

Serial No. FD9 w/aux power cable, 100 Mbps

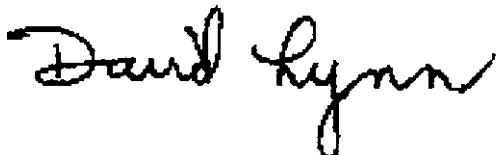
Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
13.704	36.9	50.0	13.1	High
0.420	34.2	47.4	13.2	High
0.422	34.0	47.4	13.4	High
0.418	34.0	47.5	13.5	High
0.423	33.9	47.4	13.5	High

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)*	Lead
0.976	32.7	46.0	13.3	Low
0.973	32.7	46.0	13.3	Low
0.422	33.9	47.4	13.5	Low
1.243	31.5	46.0	14.5	Low
0.241	37.5	52.1	14.6	Low

All readings listed above are Peak, using an IF Bandwidth of 9 kHz, a video filter was not used.

Judgment: Passed, minimum margin of 13.1 dB.

Test Personnel:



Type/Printer Name: David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F67, w/aux pwr cable

Manufacturer: Intel

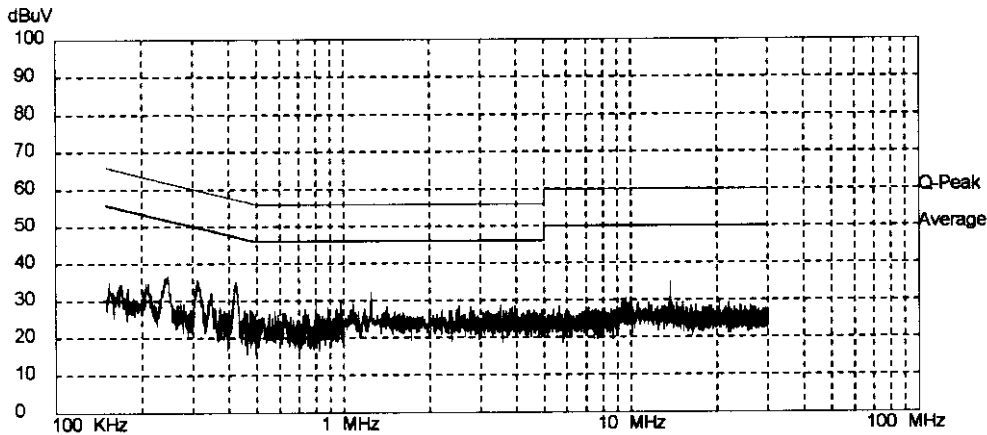
Job Number: INTE2335

Date/Time: 11-18-1998 16:35:14

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1088

Run #3, U2=SC, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.422	15.1	High	20.0	35.1	47.4	-12.3
0.418	14.2	High	20.0	34.2	47.5	-13.3
0.425	14.0	High	20.0	34.0	47.3	-13.3
1.243	10.8	High	21.5	32.3	46.0	-13.7
0.311	15.9	High	20.0	35.9	49.9	-14.0
0.313	15.3	High	20.0	35.3	49.9	-14.6
13.704	13.3	High	21.7	35.0	50.0	-15.0
0.245	16.8	High	20.0	36.8	51.9	-15.1
0.244	16.6	High	20.0	36.6	52.0	-15.4
0.309	14.6	High	20.0	34.6	50.0	-15.4
0.426	11.9	High	20.0	31.9	47.3	-15.4
0.314	14.1	High	20.0	34.1	49.9	-15.8
0.975	10.2	High	20.0	30.2	46.0	-15.8
0.239	16.2	High	20.0	36.2	52.1	-15.9
0.241	16.1	High	20.0	36.1	52.1	-16.0
0.415	10.8	High	20.0	30.8	47.5	-16.7
0.413	10.8	High	20.0	30.8	47.6	-16.8
1.074	7.7	High	21.5	29.2	46.0	-16.8
0.346	12.1	High	20.0	32.1	49.1	-17.0
0.800	8.9	High	20.0	28.9	46.0	-17.1

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F67, w/aux pwr cable

Manufacturer: Intel

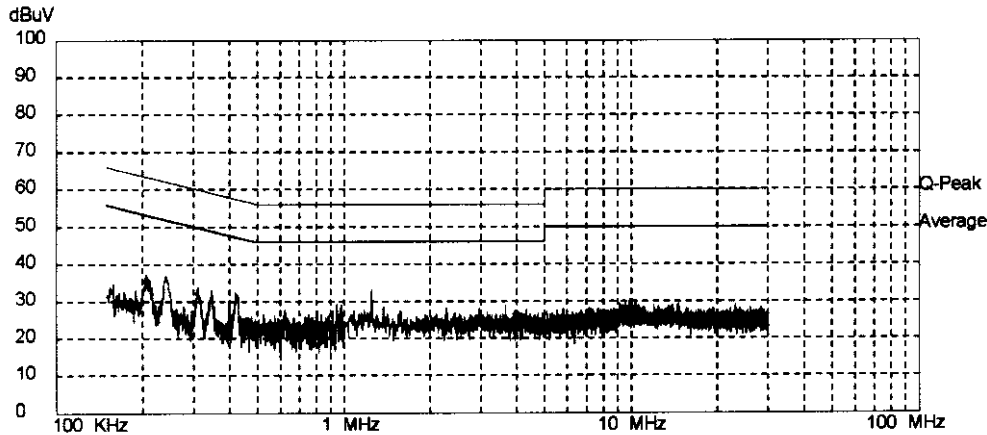
Job Number: INTE2335

Date/Time: 11-18-1998 16:37

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1088

Run #3, U2=SC, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) Low Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
1.243	11.7	Low	21.5	33.2	46.0	-12.8
0.419	12.5	Low	20.0	32.5	47.5	-15.0
0.240	17.1	Low	20.0	37.1	52.1	-15.0
0.423	12.1	Low	20.0	32.1	47.4	-15.3
0.426	11.9	Low	20.0	31.9	47.3	-15.4
0.424	11.9	Low	20.0	31.9	47.4	-15.5
0.242	16.4	Low	20.0	36.4	52.0	-15.6
0.238	16.5	Low	20.0	36.5	52.2	-15.7
0.310	14.1	Low	20.0	34.1	50.0	-15.9
0.345	13.2	Low	20.0	33.2	49.1	-15.9
0.244	16.0	Low	20.0	36.0	52.0	-16.0
0.204	17.4	Low	20.0	37.4	53.4	-16.0
0.207	16.8	Low	20.0	36.8	53.3	-16.5
0.942	9.4	Low	20.0	29.4	46.0	-16.6
0.308	13.4	Low	20.0	33.4	50.0	-16.6
0.346	12.2	Low	20.0	32.2	49.1	-16.9
3.653	7.5	Low	21.6	29.1	46.0	-16.9
0.973	9.1	Low	20.0	29.1	46.0	-16.9
0.211	16.2	Low	20.0	36.2	53.2	-17.0
0.349	11.9	Low	20.0	31.9	49.0	-17.1

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

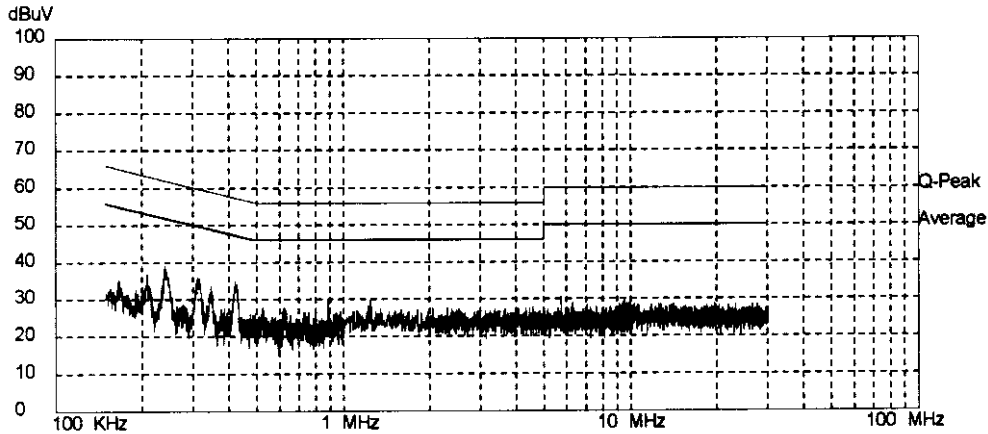
Serial Number: F67, w/aux pwr cable

Manufacturer: Intel

Job Number: INTE2335

Date/Time: 11-18-1998 16:46

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1088
Run #3, U2=SC, RP3=NO, 120VAC, 60Hz mainsCISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.421	15.0	High	20.0	35.0	47.4	-12.4
0.239	19.3	High	20.0	39.3	52.1	-12.8
0.424	14.0	High	20.0	34.0	47.4	-13.4
0.242	18.4	High	20.0	38.4	52.0	-13.6
0.418	13.6	High	20.0	33.6	47.5	-13.9
0.312	16.0	High	20.0	36.0	49.9	-13.9
0.315	15.8	High	20.0	35.8	49.8	-14.0
0.417	13.1	High	20.0	33.1	47.5	-14.4
0.310	15.5	High	20.0	35.5	50.0	-14.5
0.308	14.6	High	20.0	34.6	50.0	-15.4
0.345	13.6	High	20.0	33.6	49.1	-15.5
0.246	16.3	High	20.0	36.3	51.9	-15.6
0.415	11.9	High	20.0	31.9	47.5	-15.6
0.428	11.5	High	20.0	31.5	47.3	-15.8
0.884	10.0	High	20.0	30.0	46.0	-16.0
0.413	11.5	High	20.0	31.5	47.6	-16.1
0.317	13.6	High	20.0	33.6	49.8	-16.2
1.239	8.3	High	21.5	29.8	46.0	-16.2
0.209	17.0	High	20.0	37.0	53.2	-16.2
0.347	12.5	High	20.0	32.5	49.0	-16.5

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F67, w/aux pwr cable

Manufacturer: Intel

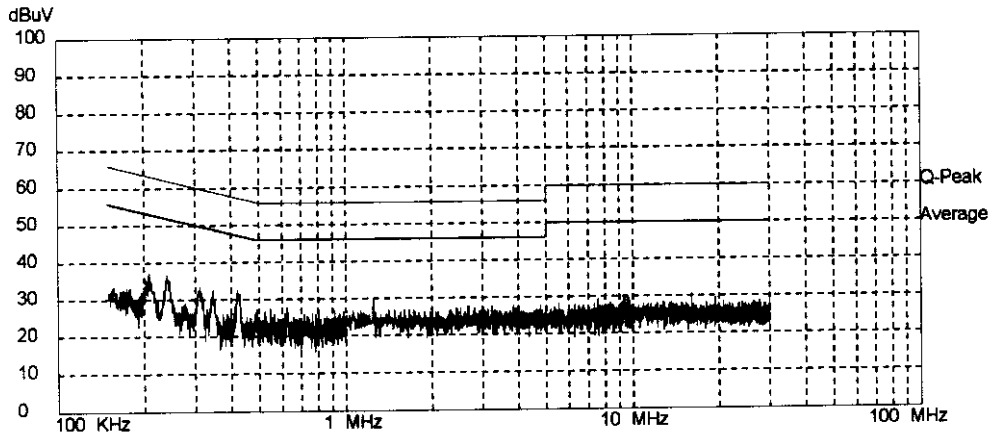
Job Number: INTE2335

Date/Time: 11-18-1998 16:42:57

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1088

Run #3, U2=SC, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) Low Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.420	12.6	Low	20.0	32.6	47.4	-14.8
0.239	16.9	Low	20.0	36.9	52.1	-15.2
0.418	11.9	Low	20.0	31.9	47.5	-15.6
0.426	11.7	Low	20.0	31.7	47.3	-15.6
0.423	11.6	Low	20.0	31.6	47.4	-15.8
1.247	8.6	Low	21.5	30.1	46.0	-15.9
0.207	17.4	Low	20.0	37.4	53.3	-15.9
0.345	12.8	Low	20.0	32.8	49.1	-16.3
0.310	13.6	Low	20.0	33.6	50.0	-16.4
0.243	15.3	Low	20.0	35.3	52.0	-16.7
0.237	15.5	Low	20.0	35.5	52.2	-16.7
0.241	15.0	Low	20.0	35.0	52.1	-17.1
0.417	10.0	Low	20.0	30.0	47.5	-17.5
0.308	12.2	Low	20.0	32.2	50.0	-17.8
0.343	11.3	Low	20.0	31.3	49.1	-17.8
0.203	15.5	Low	20.0	35.5	53.5	-18.0
0.210	15.2	Low	20.0	35.2	53.2	-18.0
0.315	11.8	Low	20.0	31.8	49.8	-18.0
3.829	6.3	Low	21.6	27.9	46.0	-18.1
2.674	6.3	Low	21.6	27.9	46.0	-18.1

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F67, w/o aux pwr cable

Manufacturer: Intel

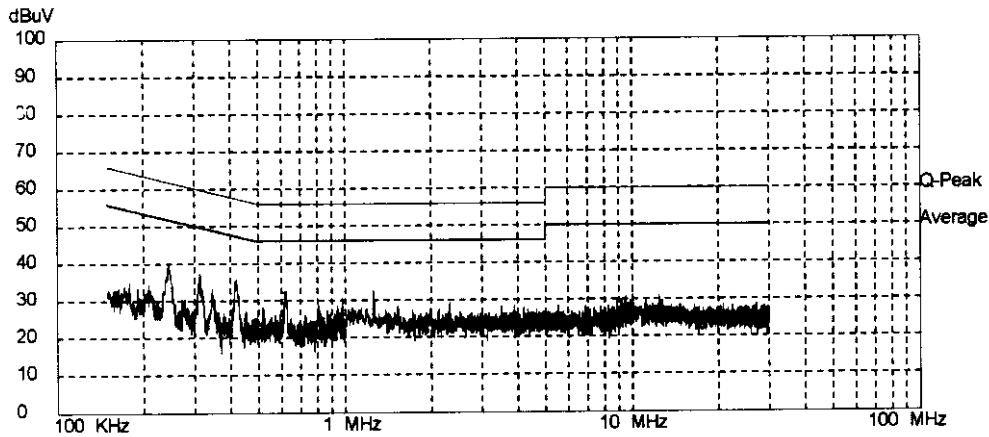
Job Number: INTE2335

Date/Time: 11-18-1998 18:47

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1088

Run #4, U2=SC, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

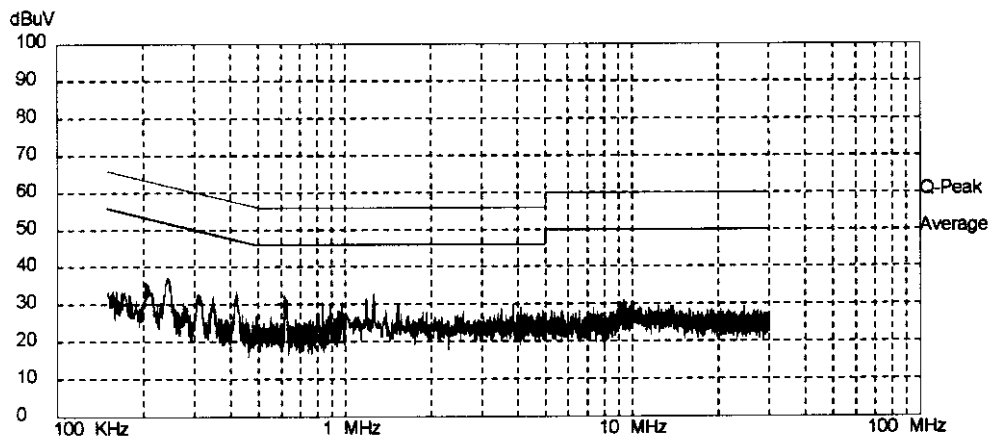
Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.419	15.8	High	20.0	35.8	47.5	-11.7
0.414	15.5	High	20.0	35.5	47.6	-12.1
0.244	19.8	High	20.0	39.8	52.0	-12.2
0.312	17.4	High	20.0	37.4	49.9	-12.5
0.416	15.0	High	20.0	35.0	47.5	-12.5
0.242	19.1	High	20.0	39.1	52.0	-12.9
0.617	12.8	High	20.0	32.8	46.0	-13.2
1.255	11.2	High	21.5	32.7	46.0	-13.3
0.245	18.5	High	20.0	38.5	51.9	-13.4
0.621	12.5	High	20.0	32.5	46.0	-13.5
0.310	16.3	High	20.0	36.3	50.0	-13.7
0.421	13.5	High	20.0	33.5	47.4	-13.9
0.246	17.7	High	20.0	37.7	51.9	-14.2
0.423	12.5	High	20.0	32.5	47.4	-14.9
0.240	16.8	High	20.0	36.8	52.1	-15.3
0.977	10.6	High	20.0	30.6	46.0	-15.4
0.346	13.2	High	20.0	33.2	49.1	-15.9
0.316	13.4	High	20.0	33.4	49.8	-16.4
0.426	10.9	High	20.0	30.9	47.3	-16.4
0.317	13.3	High	20.0	33.3	49.8	-16.5

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: F87, w/o aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-18-1998 18:44:39
 Tested By: David Lynn, TE03
 Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1088
 Run #4, U2=SC, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) Low Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
1.255	11.3	Low	21.5	32.8	46.0	-13.2
0.616	12.4	Low	20.0	32.4	46.0	-13.6
0.418	13.7	Low	20.0	33.7	47.5	-13.8
1.182	10.2	Low	21.5	31.7	46.0	-14.3
0.242	17.3	Low	20.0	37.3	52.0	-14.7
0.421	12.7	Low	20.0	32.7	47.4	-14.7
0.626	11.2	Low	20.0	31.2	46.0	-14.8
0.243	17.1	Low	20.0	37.1	52.0	-14.9
0.422	12.5	Low	20.0	32.5	47.4	-14.9
0.240	16.7	Low	20.0	36.7	52.1	-15.4
0.974	10.6	Low	20.0	30.6	46.0	-15.4
0.833	10.6	Low	20.0	30.6	46.0	-15.4
0.415	12.1	Low	20.0	32.1	47.5	-15.4
0.246	16.3	Low	20.0	36.3	51.9	-15.6
1.523	8.9	Low	21.5	30.4	46.0	-15.6
0.624	10.4	Low	20.0	30.4	46.0	-15.6
0.413	11.6	Low	20.0	31.6	47.6	-16.0
0.620	10.0	Low	20.0	30.0	46.0	-16.0
1.247	8.5	Low	21.5	30.0	46.0	-16.0
0.239	16.1	Low	20.0	36.1	52.1	-16.0

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F67, w/o aux pwr cable

Manufacturer: Intel

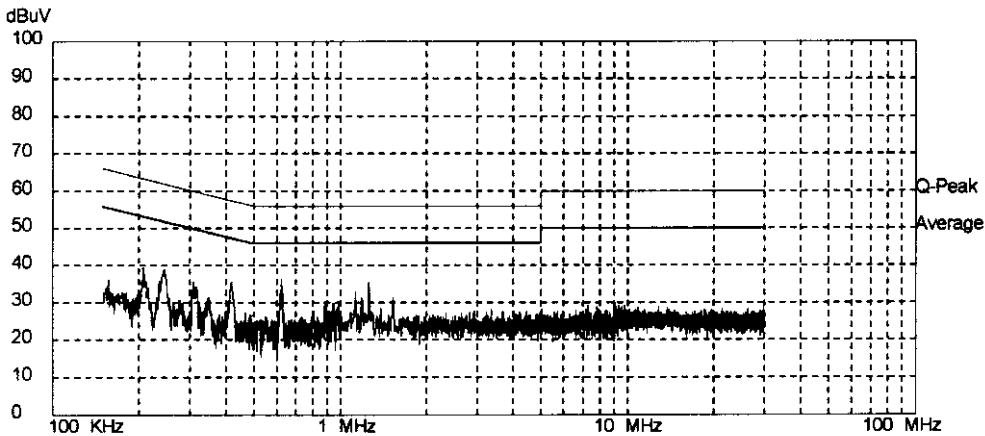
Job Number: INTE2335

Date/Time: 11-18-1998 18:51:45

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1088

Run #4, U2=SC, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.622	16.3	High	20.0	36.3	46.0	-9.7
1.251	14.1	High	21.5	35.6	46.0	-10.4
0.418	15.6	High	20.0	35.6	47.5	-11.9
0.416	15.5	High	20.0	35.5	47.5	-12.0
0.244	18.9	High	20.0	38.9	52.0	-13.1
0.413	14.5	High	20.0	34.5	47.6	-13.1
1.126	11.4	High	21.5	32.9	46.0	-13.1
0.628	12.6	High	20.0	32.6	46.0	-13.4
0.627	12.6	High	20.0	32.6	46.0	-13.4
0.420	14.0	High	20.0	34.0	47.4	-13.4
0.615	12.4	High	20.0	32.4	46.0	-13.6
0.242	18.3	High	20.0	38.3	52.0	-13.7
0.205	19.5	High	20.0	39.5	53.4	-13.9
0.421	13.5	High	20.0	33.5	47.4	-13.9
0.241	17.8	High	20.0	37.8	52.1	-14.3
0.308	15.6	High	20.0	35.6	50.0	-14.4
0.247	17.4	High	20.0	37.4	51.9	-14.5
1.178	9.9	High	21.5	31.4	46.0	-14.6
1.523	9.8	High	21.5	31.3	46.0	-14.7
0.315	14.3	High	20.0	34.3	49.8	-15.5

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

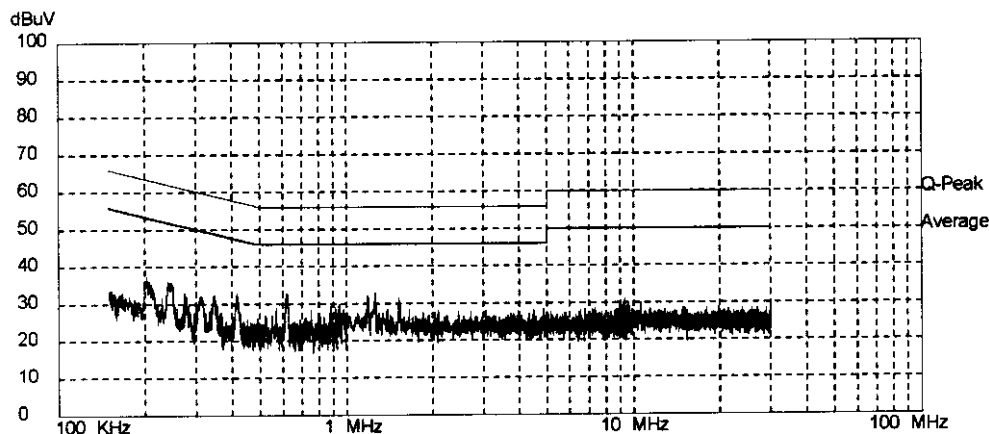
Serial Number: F67, w/o aux pwr cable

Manufacturer: Intel

Job Number: INTE2335

Date/Time: 11-18-1998 18:54

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1068
Run #4, U2=SC, RP3=NO, 120VAC, 60Hz mainsCISPR 22 Class B Conducted Emissions Limit (Average) Low Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.618	12.9	Low	20.0	32.9	46.0	-13.1
1.255	11.4	Low	21.5	32.9	46.0	-13.1
0.624	12.5	Low	20.0	32.5	46.0	-13.5
1.182	10.9	Low	21.5	32.4	46.0	-13.6
0.621	12.3	Low	20.0	32.3	46.0	-13.7
1.523	10.2	Low	21.5	31.7	46.0	-14.3
0.615	11.6	Low	20.0	31.6	46.0	-14.4
0.415	13.1	Low	20.0	33.1	47.5	-14.4
0.416	12.5	Low	20.0	32.5	47.5	-15.0
0.419	12.1	Low	20.0	32.1	47.5	-15.4
0.942	10.0	Low	20.0	30.0	46.0	-16.0
0.239	16.1	Low	20.0	36.1	52.1	-16.0
0.245	15.8	Low	20.0	35.8	51.9	-16.1
0.242	15.9	Low	20.0	35.9	52.0	-16.1
0.202	17.4	Low	20.0	37.4	53.5	-16.1
0.246	15.7	Low	20.0	35.7	51.9	-16.2
0.248	15.4	Low	20.0	35.4	51.8	-16.4
0.880	9.5	Low	20.0	29.5	46.0	-16.5
0.345	12.5	Low	20.0	32.5	49.1	-16.6
0.939	9.3	Low	20.0	29.3	46.0	-16.7

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F4C, w/aux pwr cable

Manufacturer: Intel

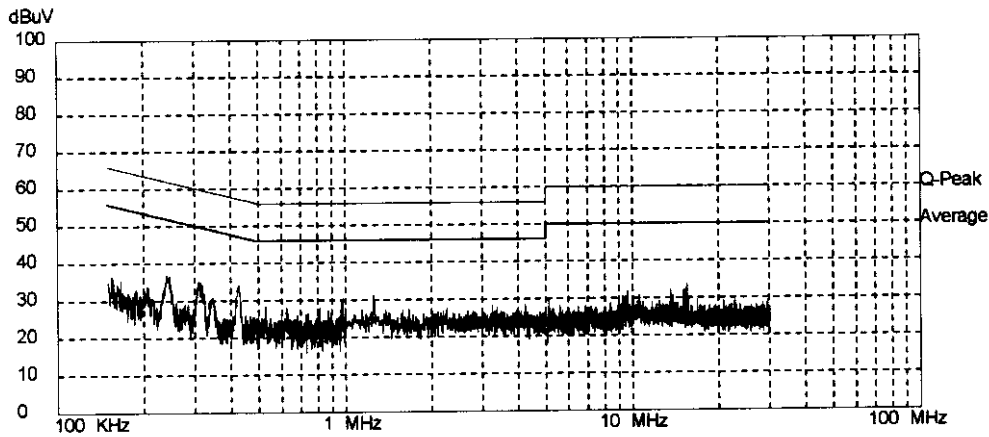
Job Number: INTE2335

Date/Time: 11-18-1998 14:18

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1012

Run #1, U2=CMD, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

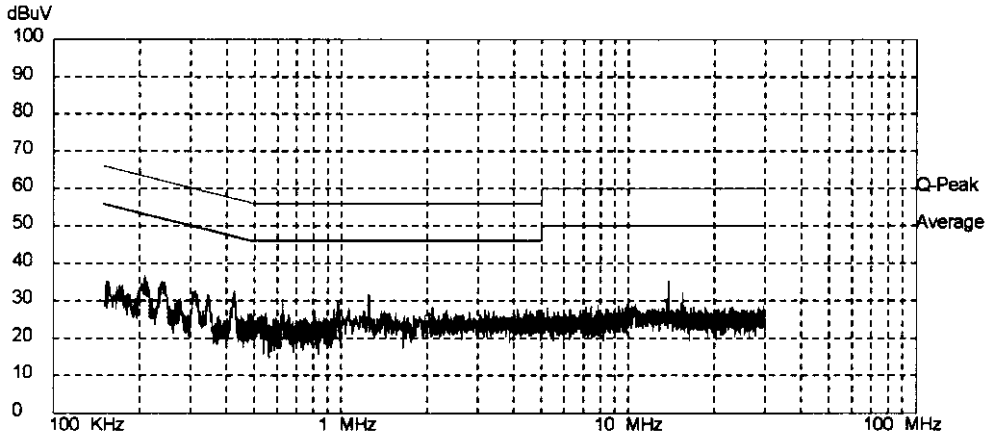
Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.424	14.2	High	20.0	34.2	47.4	-13.2
0.422	13.5	High	20.0	33.5	47.4	-13.9
0.420	13.0	High	20.0	33.0	47.4	-14.4
1.255	9.9	High	21.5	31.4	46.0	-14.6
0.427	12.7	High	20.0	32.7	47.3	-14.6
0.314	15.0	High	20.0	35.0	49.9	-14.9
0.309	15.1	High	20.0	35.1	50.0	-14.9
0.429	12.2	High	20.0	32.2	47.3	-15.1
0.317	14.6	High	20.0	34.6	49.8	-15.2
0.240	16.9	High	20.0	36.9	52.1	-15.2
0.312	14.6	High	20.0	34.6	49.9	-15.3
0.245	16.5	High	20.0	36.5	51.9	-15.4
0.973	10.3	High	20.0	30.3	46.0	-15.7
0.308	14.1	High	20.0	34.1	50.0	-15.9
0.242	16.0	High	20.0	36.0	52.0	-16.0
0.971	9.9	High	20.0	29.9	46.0	-16.1
15.505	12.1	High	21.7	33.8	50.0	-16.2
0.418	11.1	High	20.0	31.1	47.5	-16.4
0.417	11.0	High	20.0	31.0	47.5	-16.5
0.319	13.2	High	20.0	33.2	49.7	-16.5

David Lynn

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: F4C, w/aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-18-1998 14:22
 Tested By: David Lynn, TE03
 Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1012
 Run #1, U2=CMD, RP3=NO, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) Low Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
1.247	10.3	Low	21.5	31.8	46.0	-14.2
0.425	12.7	Low	20.0	32.7	47.3	-14.6
13.784	13.6	Low	21.7	35.3	50.0	-14.7
0.422	12.0	Low	20.0	32.0	47.4	-15.4
0.970	9.6	Low	20.0	29.6	46.0	-16.4
0.421	11.0	Low	20.0	31.0	47.4	-16.4
0.208	16.8	Low	20.0	36.8	53.3	-16.5
0.626	9.4	Low	20.0	29.4	46.0	-16.6
0.975	9.4	Low	20.0	29.4	46.0	-16.6
0.244	15.0	Low	20.0	35.0	52.0	-17.0
0.238	15.2	Low	20.0	35.2	52.2	-17.0
0.241	14.9	Low	20.0	34.9	52.1	-17.2
0.312	12.7	Low	20.0	32.7	49.9	-17.2
0.344	11.8	Low	20.0	31.8	49.1	-17.3
0.429	9.9	Low	20.0	29.9	47.3	-17.4
0.344	11.7	Low	20.0	31.7	49.1	-17.4
0.206	15.9	Low	20.0	35.9	53.4	-17.5
0.979	8.5	Low	20.0	28.5	46.0	-17.5
0.347	11.5	Low	20.0	31.5	49.0	-17.5
2.085	6.9	Low	21.5	28.4	46.0	-17.6

David Lynn

Ver 5.4a, Jan 1997

Northwest EMC, Inc.

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F4C

Manufacturer: Intel

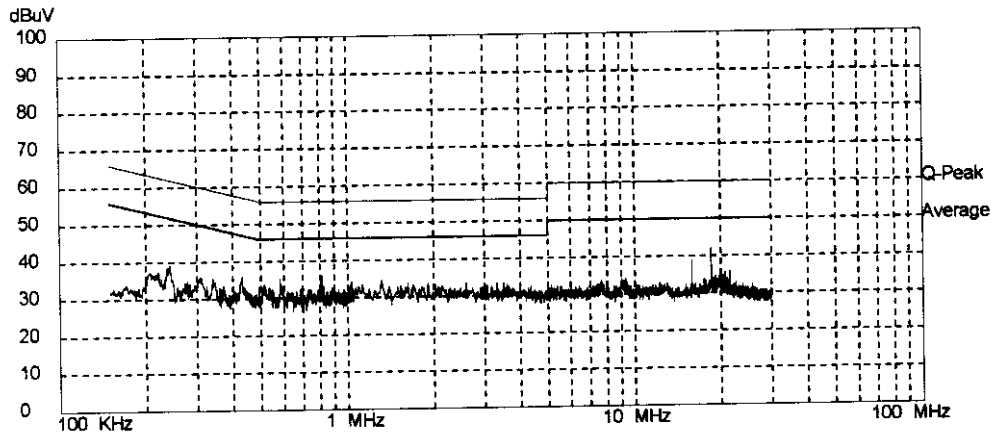
Job Number: INTE2335

Date/Time: 11-27-1998 09:58:45

Tested By: Jeff Jackson, HL01

Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1012

Run #3, U2=CMD, RP3=NO, 120VAC, 60 Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
18.443	22.1	High	20.0	42.1	50.0	-7.9
0.809	16.1	High	20.0	36.1	46.0	-9.9
0.582	15.3	High	20.0	35.3	46.0	-10.7
15.816	19.1	High	20.0	39.1	50.0	-10.9
1.313	14.8	High	20.0	34.8	46.0	-11.2
0.429	16.0	High	20.0	36.0	47.3	-11.3
1.029	14.4	High	20.0	34.4	46.0	-11.6
0.513	14.1	High	20.0	34.1	46.0	-11.9
0.814	14.1	High	20.0	34.1	46.0	-11.9
1.023	13.9	High	20.0	33.9	46.0	-12.1
1.614	13.9	High	20.0	33.9	46.0	-12.1
2.589	13.7	High	20.0	33.7	46.0	-12.3
1.905	13.7	High	20.0	33.7	46.0	-12.3
0.585	13.7	High	20.0	33.7	46.0	-12.3
0.598	13.5	High	20.0	33.5	46.0	-12.5
3.316	13.4	High	20.0	33.4	46.0	-12.6
1.126	13.4	High	20.0	33.4	46.0	-12.6
3.492	13.4	High	20.0	33.4	46.0	-12.6
0.822	13.3	High	20.0	33.3	46.0	-12.7
1.687	13.3	High	20.0	33.3	46.0	-12.7

Jeffery E. Jackson

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F4C

Manufacturer: Intel

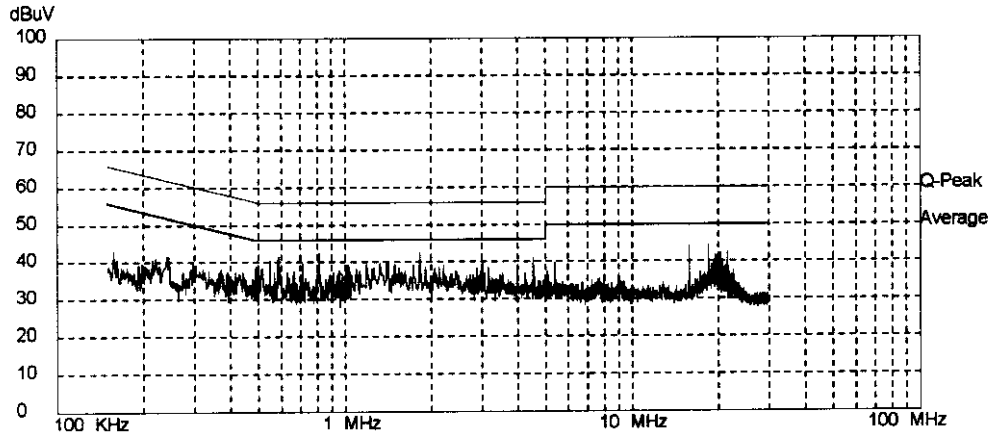
Job Number: INTE2383

Date/Time: 11-27-1998 10:16:44

Tested By: Jeff Jackson, HL01

Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1012

Run #4, U2=CMD, RP3=NO, 120VAC, 60 Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) Low Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.810	22.5	Low	20.0	42.5	46.0	-3.5
1.822	22.5	Low	20.0	42.5	46.0	-3.5
0.584	21.4	Low	20.0	41.4	46.0	-4.6
4.519	21.1	Low	20.0	41.1	46.0	-4.9
18.417	24.6	Low	20.0	44.6	50.0	-5.4
0.548	20.6	Low	20.0	40.6	46.0	-5.4
15.816	24.4	Low	20.0	44.4	50.0	-5.6
3.015	19.9	Low	20.0	39.9	46.0	-6.1
1.324	19.6	Low	20.0	39.6	46.0	-6.4
0.710	19.6	Low	20.0	39.6	46.0	-6.4
1.396	19.6	Low	20.0	39.6	46.0	-6.4
1.490	19.5	Low	20.0	39.5	46.0	-6.5
1.189	19.5	Low	20.0	39.5	46.0	-6.5
1.728	19.3	Low	20.0	39.3	46.0	-6.7
2.205	19.2	Low	20.0	39.2	46.0	-6.8
1.012	19.2	Low	20.0	39.2	46.0	-6.8
3.980	18.9	Low	20.0	38.9	46.0	-7.1
0.488	19.0	Low	20.0	39.0	46.2	-7.2
1.905	18.7	Low	20.0	38.7	46.0	-7.3
1.541	18.6	Low	20.0	38.6	46.0	-7.4

Jeff E. Jackson

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: FD9, w/aux pwr cable

Manufacturer: Intel

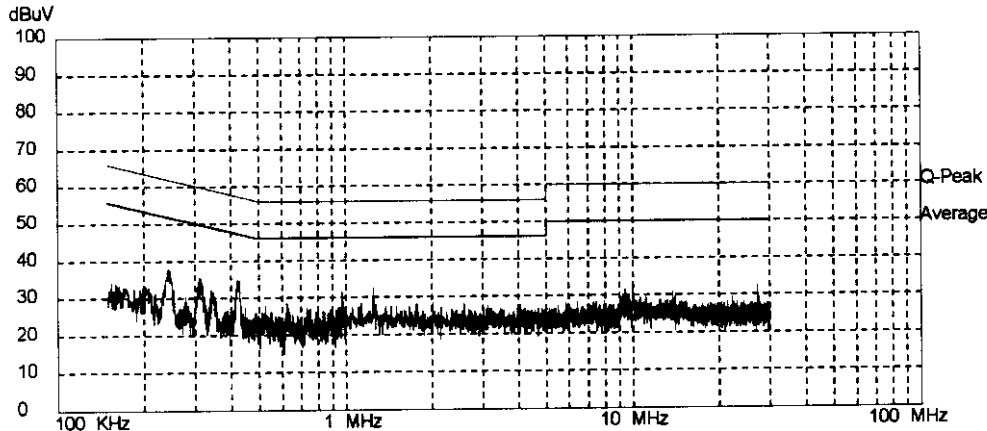
Job Number: INTE2335

Date/Time: 11-18-1998 16:12:40

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1138

Run #2, U2=CMD, RP3=YES, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.420	15.0	High	20.0	35.0	47.4	-12.4
0.424	14.7	High	20.0	34.7	47.4	-12.7
0.422	14.3	High	20.0	34.3	47.4	-13.1
0.419	14.1	High	20.0	34.1	47.5	-13.4
1.243	10.8	High	21.5	32.3	46.0	-13.7
0.242	18.0	High	20.0	38.0	52.0	-14.0
0.311	15.6	High	20.0	35.6	49.9	-14.3
0.244	17.6	High	20.0	37.6	52.0	-14.4
0.970	11.5	High	20.0	31.5	46.0	-14.5
0.313	15.3	High	20.0	35.3	49.9	-14.6
0.240	17.5	High	20.0	37.5	52.1	-14.6
0.426	12.0	High	20.0	32.0	47.3	-15.3
0.315	14.4	High	20.0	34.4	49.8	-15.4
0.309	14.3	High	20.0	34.3	50.0	-15.7
0.415	11.7	High	20.0	31.7	47.5	-15.8
0.239	15.8	High	20.0	35.8	52.1	-16.3
0.319	13.2	High	20.0	33.2	49.7	-16.5
0.306	13.2	High	20.0	33.2	50.1	-16.9
0.248	14.8	High	20.0	34.8	51.8	-17.0
0.973	8.9	High	20.0	28.9	46.0	-17.1

David Lynn

Ver 5.4a, Jan 1997

Northwest EMC, Inc.

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: FD9, w/aux pwr cable

Manufacturer: Intel

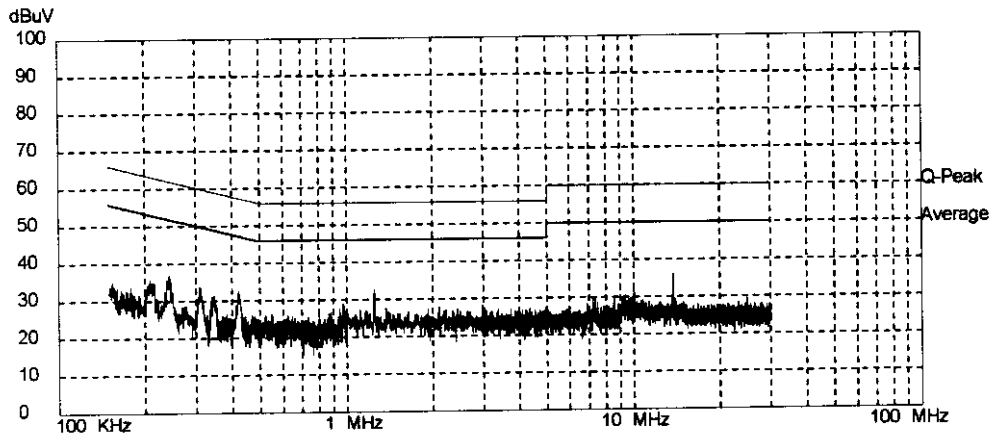
Job Number: INTE2335

Date/Time: 11-18-1998 16:16

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1138

Run #2, U2=CMD, RP3=YES, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) Low Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
1.243	11.2	Low	21.5	32.7	46.0	-13.3
13.704	14.6	Low	21.7	36.3	50.0	-13.7
0.422	12.9	Low	20.0	32.9	47.4	-14.5
0.243	16.9	Low	20.0	36.9	52.0	-15.1
0.242	16.9	Low	20.0	36.9	52.0	-15.1
0.417	12.1	Low	20.0	32.1	47.5	-15.4
0.419	11.5	Low	20.0	31.5	47.5	-16.0
0.309	13.9	Low	20.0	33.9	50.0	-16.1
0.311	13.7	Low	20.0	33.7	49.9	-16.2
0.237	15.8	Low	20.0	35.8	52.2	-16.4
0.239	15.4	Low	20.0	35.4	52.1	-16.7
0.969	9.0	Low	20.0	29.0	46.0	-17.0
0.972	8.7	Low	20.0	28.7	46.0	-17.3
0.977	8.6	Low	20.0	28.6	46.0	-17.4
0.207	15.9	Low	20.0	35.9	53.3	-17.4
0.346	11.5	Low	20.0	31.5	49.1	-17.6
2.963	6.8	Low	21.6	28.4	46.0	-17.6
0.427	9.7	Low	20.0	29.7	47.3	-17.6
0.346	11.3	Low	20.0	31.3	49.1	-17.8
2.093	6.5	Low	21.5	28.0	46.0	-18.0

David Lynn

Ver 5.4a, Jan 1997

Northwest EMC, Inc.

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: FD9, w/aux pwr cable

Manufacturer: Intel

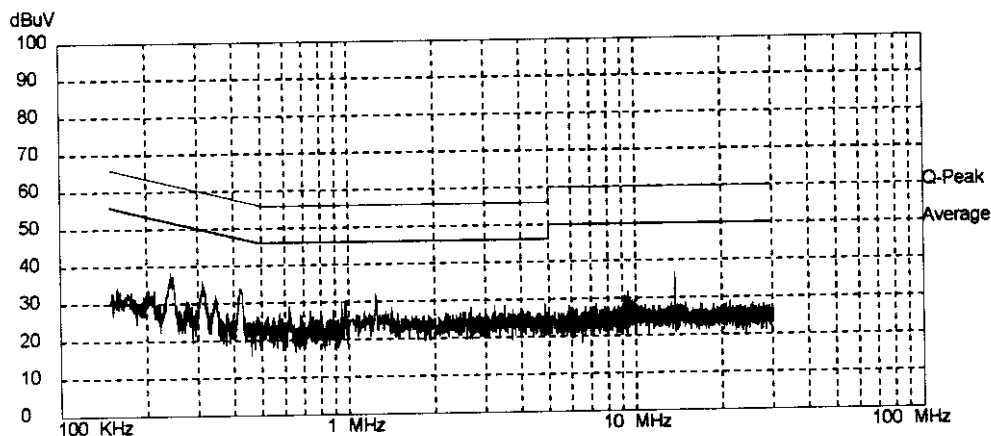
Job Number: INTE2335

Date/Time: 11-18-1998 16:23

Tested By: David Lynn, TE03

Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1138

Run #2, U2=CMD, RP3=YES, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) High Line
Peak data.

Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
13.704	15.2	High	21.7	36.9	50.0	-13.1
0.420	14.2	High	20.0	34.2	47.4	-13.2
0.422	14.0	High	20.0	34.0	47.4	-13.4
0.418	14.0	High	20.0	34.0	47.5	-13.5
0.423	13.9	High	20.0	33.9	47.4	-13.5
0.311	16.4	High	20.0	36.4	49.9	-13.5
0.242	18.4	High	20.0	38.4	52.0	-13.6
1.239	10.6	High	21.5	32.1	46.0	-13.9
0.425	13.1	High	20.0	33.1	47.3	-14.2
0.245	17.5	High	20.0	37.5	51.9	-14.4
0.241	17.4	High	20.0	37.4	52.1	-14.7
0.313	14.7	High	20.0	34.7	49.9	-15.2
0.417	12.1	High	20.0	32.1	47.5	-15.4
0.973	10.5	High	20.0	30.5	46.0	-15.5
0.415	12.0	High	20.0	32.0	47.5	-15.5
0.314	14.1	High	20.0	34.1	49.9	-15.8
0.428	11.5	High	20.0	31.5	47.3	-15.8
0.946	10.1	High	20.0	30.1	46.0	-15.9
0.316	13.7	High	20.0	33.7	49.8	-16.1
0.309	13.6	High	20.0	33.6	50.0	-16.4

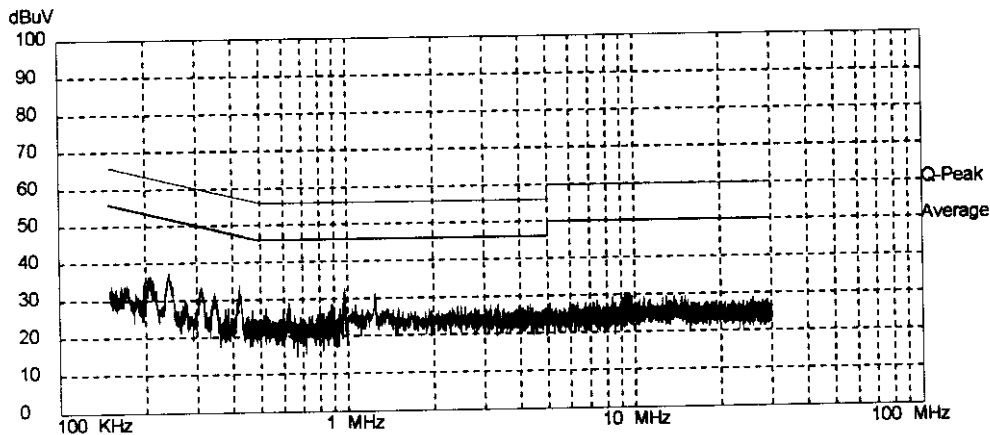
David Lynn

Ver 5.4a, Jan 1997

Northwest EMC, Inc.

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: FD9, w/aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-18-1998 16:20:16
 Tested By: David Lynn, TE03
 Comments: PC System #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1138
 Run #2, U2=CMD, RP3=YES, 120VAC, 60Hz mains

CISPR 22 Class B Conducted Emissions Limit (Average) Low Line
 Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Power Line	Correction Factor (dB/m)	Adjusted Level (dBuV)	Spec Limit (dBuV)	Compared To Limit (dB)
0.976	12.7	Low	20.0	32.7	46.0	-13.3
0.973	12.7	Low	20.0	32.7	46.0	-13.3
0.422	13.9	Low	20.0	33.9	47.4	-13.5
1.243	10.0	Low	21.5	31.5	46.0	-14.5
0.241	17.5	Low	20.0	37.5	52.1	-14.6
0.970	11.2	Low	20.0	31.2	46.0	-14.8
0.968	10.9	Low	20.0	30.9	46.0	-15.1
0.238	16.4	Low	20.0	36.4	52.2	-15.8
0.423	11.4	Low	20.0	31.4	47.4	-16.0
0.425	11.2	Low	20.0	31.2	47.3	-16.1
0.311	13.5	Low	20.0	33.5	49.9	-16.4
0.244	15.3	Low	20.0	35.3	52.0	-16.7
0.208	16.5	Low	20.0	36.5	53.3	-16.8
0.418	10.6	Low	20.0	30.6	47.5	-16.9
0.309	13.1	Low	20.0	33.1	50.0	-16.9
0.624	9.1	Low	20.0	29.1	46.0	-16.9
0.236	15.3	Low	20.0	35.3	52.2	-16.9
0.204	16.4	Low	20.0	36.4	53.4	-17.0
0.345	12.0	Low	20.0	32.0	49.1	-17.1
0.966	8.9	Low	20.0	28.9	46.0	-17.1

David Lynn

7.0 Radiated Emissions Data

7.1 The following data lists the most significant emission frequencies, total (corrected) levels, and specification margins. Correction factors, antenna height, table azimuth, etc., are contained in the data sheets immediately following. Explanation of the correction factors is given in paragraph 7.2 of this report. Complete graphs and data sheets may be referenced on the following pages. Minimum margins are listed below:

CISPR 22 Class B Specification Limits

Serial No. F67 w/aux power cable, 10 Mbps

Frequency (MHz)	Detection	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)*	Polarization
340.025	QP	36.4	37.0	0.6	Vertical
157.501	QP	26.7	30.0	3.3	Horizontal
171.819	QP	26.1	30.0	3.8	Horizontal
59.990	QP	24.1	30.0	5.9	Vertical
200.456	QP	22.8	30.0	7.2	Vertical
300.022	QP	29.4	37.0	7.6	Vertical

Judgment: Passed, minimum margin of 0.6 dB.

Serial No. F67 w/aux power cable, 100 Mbps

Frequency (MHz)	Detection	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)*	Polarization
166.048	QP	20.2	30.0	9.8	Vertical
800.622	QP	25.5	37.0	11.5	Horizontal
166.048	QP	18.4	30.0	11.6	Vertical
800.622	QP	23.9	37.0	13.1	Horizontal

Judgment: Passed, minimum margin of 9.8 dB.

Serial No. F4C w/aux power cable, 10 Mbps

Frequency (MHz)	Detection	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)*	Polarization
60.000	QP	28.2	30.0	1.8	Vertical
200.456	QP	27.5	30.0	2.5	Horizontal
200.456	QP	23.0	30.0	7.0	Vertical
60.000	QP	15.3	30.0	14.7	Horizontal

Judgment: Passed, minimum margin of 1.8 dB.

7.0 Radiated Emissions Data con't

Serial No. F4C w/aux power cable, 10 Mbps

Frequency (MHz)	Detection	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)*	Polarization
300.049	QP	32.7	37.0	4.3	Horizontal
300.051	QP	31.0	37.0	6.0	Vertical
460.029	QP	30.9	37.0	6.1	Horizontal
460.060	QP	28.4	37.0	8.6	Vertical
157.019	QP	18.6	30.0	11.4	Vertical
157.019	QP	12.8	30.0	17.2	Horizontal

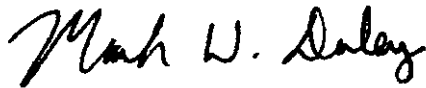
Judgment: Passed, minimum margin of 4.3 dB.

Serial No. FD9 w/o aux power cable, 10 Mbps

Frequency (MHz)	Detection	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)*	Polarization
640.037	QP	34.1	37.0	2.9	Vertical
640.037	QP	33.2	37.0	3.8	Horizontal

Judgment: Passed, minimum margin of 2.9 dB.

Test Personnel:



Type/Printed Name: Mark Daley

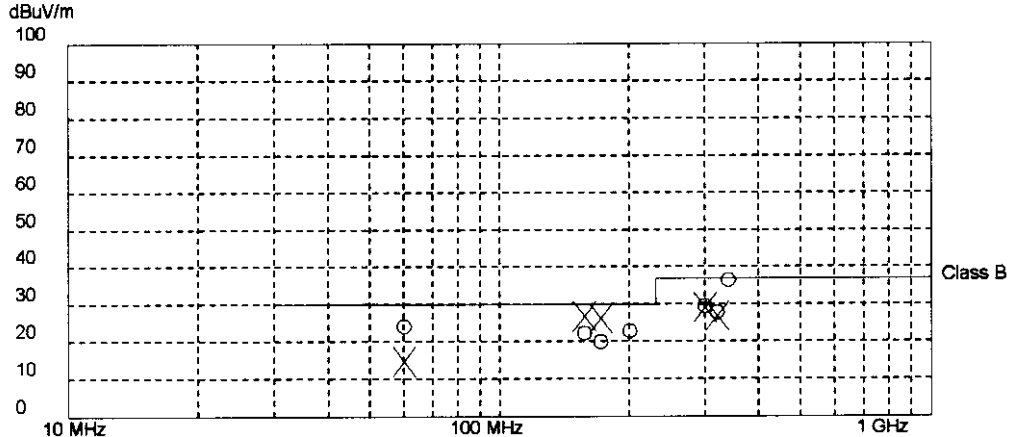
Northwest EMC, Inc.

Version 5.2, Jan. 1998

EUT Name: PB721503-004 PILA84xxx
 Serial Number: F67, w/aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Test Date: 11-18-1998
 Tested By: David Lynn, TE03, 10mOATS
 Test Distance: 10 meters.
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1088
 Run #1, U2=SC, RP3=NO

Horizontal= X
 Vertical = O

CISPR 22 Class B (10 meter limit)



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
340.025	48.1	QP	14.3	VLPA	31.7	5.7	36.4	37.0	0.0	1.0	-0.6
157.501	39.0	QP	15.6	HBIC	31.7	3.8	26.7	30.0	0.0	4.0	-3.3
171.819	40.8	QP	15.1	HBIC	32.0	2.3	26.1	30.0	0.0	3.0	-3.8
59.990	44.0	QP	9.3	VBIC	31.7	2.5	24.1	30.0	209.0	1.0	-5.9
200.456	41.0	QP	11.3	VLPA	32.0	2.5	22.8	30.0	45.0	1.0	-7.2
300.022	41.1	QP	14.5	VLPA	31.6	5.4	29.4	37.0	0.0	1.0	-7.6
157.501	34.4	QP	15.6	VBIC	31.7	3.8	22.1	30.0	120.0	1.0	-7.9
300.022	40.8	QP	14.5	HLPA	31.6	5.4	29.1	37.0	299.0	2.8	-7.9
320.023	39.5	QP	14.2	VLPA	31.6	5.6	27.7	37.0	352.0	1.0	-9.3
320.023	38.6	QP	14.2	HLPA	31.6	5.6	26.8	37.0	317.0	4.0	-10.2
171.819	34.4	QP	15.1	VBIC	32.0	2.3	19.8	30.0	180.0	1.0	-10.2
59.990	34.6	QP	9.3	HBIC	31.7	2.5	14.7	30.0	0.0	1.0	-15.3

Temperature 50F 80% Humidity

David Lynn

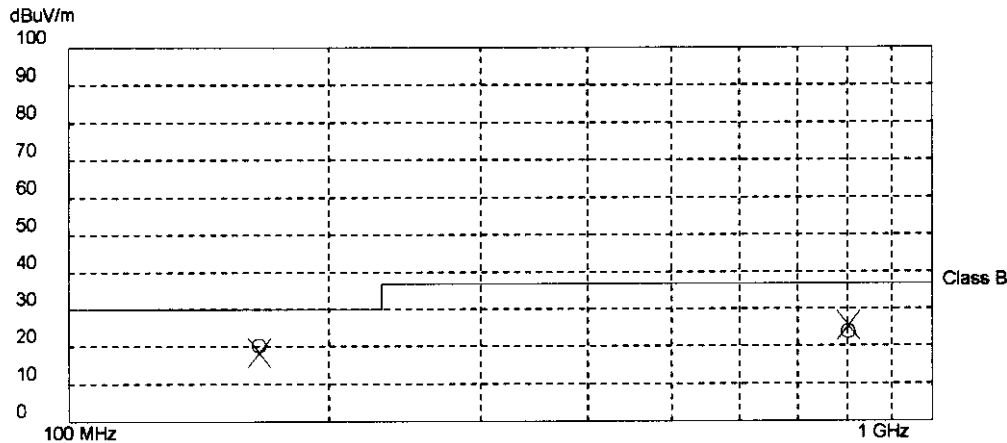
Northwest EMC, Inc.

Version 5.2, Jan. 1998

EUT Name: PB721503-004 PILA84xxx
 Serial Number: F67, w/ aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Test Date: 11-17-1998
 Tested By: Mark Daley, EL02
 Test Distance: 10 meters.
 Comments: PC system #1, running ST, random data, 100Mbps, 1024 pkt, Pulse H1088
 Run #7, U2=SC, RP3=NO

Horizontal= X
 Vertical = O

CISPR 22 Class B (10 meter limit)



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
166.048	35.9	QP	14.1	VBIC	32.1	2.3	20.2	30.0	230.0	1.0	-9.8
800.622	29.6	QP	21.8	HLPA	32.2	6.3	25.5	37.0	90.0	1.0	-11.5
166.048	34.1	QP	14.1	HBIC	32.1	2.3	18.4	30.0	0.0	3.0	-11.6
800.622	28.0	QP	21.8	VLPA	32.2	6.3	23.9	37.0	90.0	1.0	-13.1

Temperature 70F 60% Humidity

Mark W. Daley

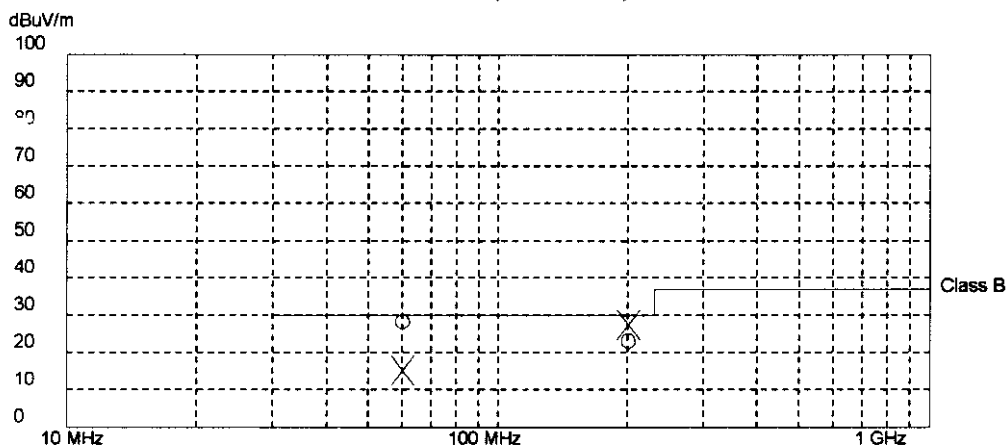
Northwest EMC, Inc.

Version 5.2, Jan. 1998

EUT Name: PB721503-004 PILA84xxx
 Serial Number: F4C, w/aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Test Date: 11-18-1998
 Tested By: David Lynn, TE03, 10mOATS
 Test Distance: 10 meters.
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1012
 Run #2, U2=CMD, RP3=NO

Horizontal= X
 Vertical = O

CISPR 22 Class B (10 meter limit)



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
60.000	48.1	QP	9.3	VBIC	31.7	2.5	28.2	30.0	0.0	1.0	-1.8
200.456	45.7	QP	11.3	HLPA	32.0	2.5	27.5	30.0	0.0	3.0	-2.5
200.456	41.2	QP	11.3	VLPA	32.0	2.5	23.0	30.0	90.0	1.0	-7.0
60.000	35.2	QP	9.3	HBIC	31.7	2.5	15.3	30.0	0.0	1.0	-14.7

Temperature 50F 80% Humidity

David Lynn

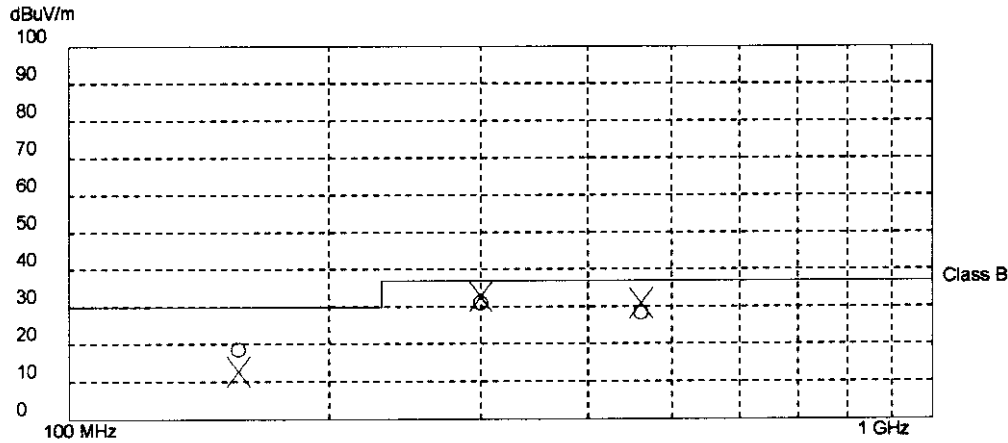
Northwest EMC, Inc.

Version 5.2, Jan. 1998

EUT Name: PB721503-004 PILA84xxx
 Serial Number: F4C, w/o aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Test Date: 11-18-1998
 Tested By: David Lynn, TE03, 10mOATS
 Test Distance: 10 meters.
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1012
 Run #3, U2=CMD, RP3=NO

Horizontal= X
 Vertical = O

CISPR 22 Class B (10 meter limit)



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
300.049	44.4	QP	14.5	HLP	31.6	5.4	32.7	37.0	343.0	3.1	-4.3
300.051	42.7	QP	14.5	VLPA	31.6	5.4	31.0	37.0	336.0	1.0	-6.0
460.029	41.5	QP	17.0	HLP	31.9	4.3	30.9	37.0	180.0	2.0	-6.1
460.060	36.2	QP	16.7	VLPA	31.3	6.8	28.4	37.0	0.0	1.0	-8.6
157.019	31.0	QP	15.6	VBIC	31.7	3.7	18.6	30.0	0.0	1.0	-11.4
157.019	25.2	QP	15.6	HBIC	31.7	3.7	12.8	30.0	0.0	1.0	-17.2

Temperature 50F 80% Humidity

David Lynn

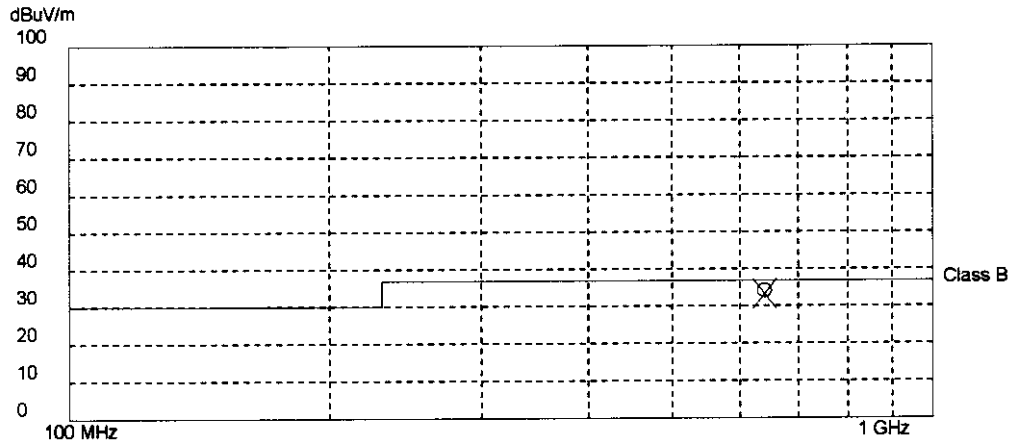
Northwest EMC, Inc.

Version 5.2, Jan. 1998

EUT Name: PB721503-004 PILA84xxx
 Serial Number: FD9, w/o aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Test Date: 11-17-1998
 Tested By: Mark Daley, EL02
 Test Distance: 10 meters.
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, Pulse H1138
 Run #24, U2=CMD, RP3=YES

Horizontal= X
 Vertical = O

CISPR 22 Class B (10 meter limit)



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
640.037	40.6	QP	20.1	VLPA	32.0	5.4	34.1	37.0	180.0	2.0	-2.9
640.037	39.7	QP	20.1	HLPA	32.0	5.4	33.2	37.0	150.0	1.9	-3.8

Temperature 70F 60% Humidity

Mark W. Daley

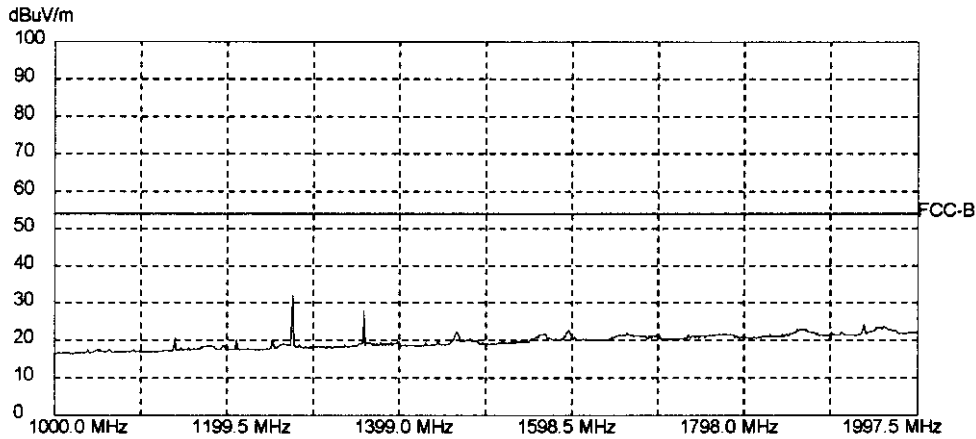
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: F4C, W/ Aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-17-1998 08:44:53
 Tested By: Mark Daley, EL01
 Test Distance: 3
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, pulse H1012
 Run #1, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
1275.000	37.1	Ver.	-4.9	32.2	54.0	-21.8

Mark W. Daley

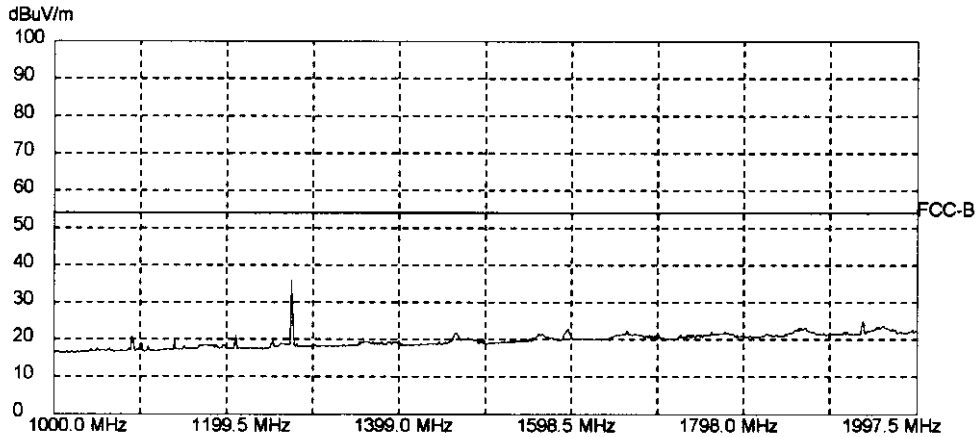
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: F4C, W/ Aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-17-1998 08:52:05
 Tested By: Mark Daley, EL01
 Test Distance: 3
 Comments: PC system #1, running ST, random data, 100Mbps, 1024 pkt, pulse H1012
 Run #2, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
1273.750	40.9	Hor.	-4.9	36.0	54.0	-18.0

Mark W. Daley

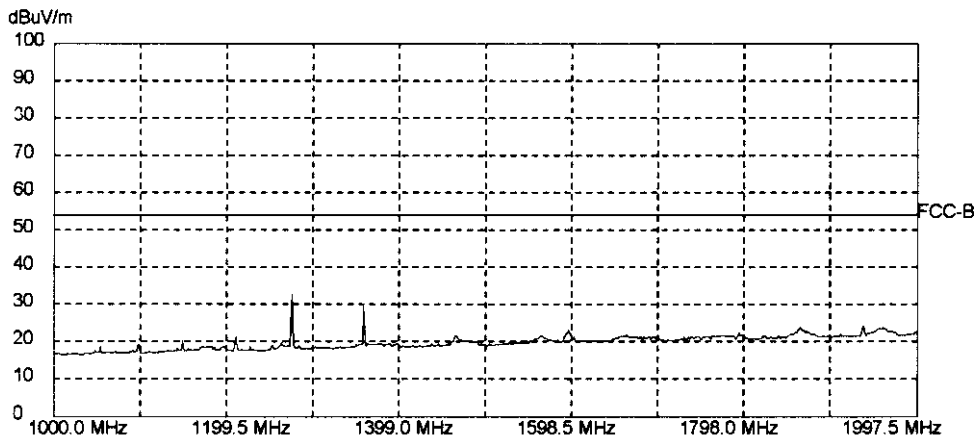
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: F4C, w/o Aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-17-1998 08:59:55
 Tested By: Mark Daley, EL01
 Test Distance: 3
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, pulse H1012
 Run #2, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
1275.000	37.6	Ver.	-4.9	32.7	54.0	-21.3
1357.500	33.8	Hor.	-4.4	29.4	54.0	-24.6

Mark W. Daley

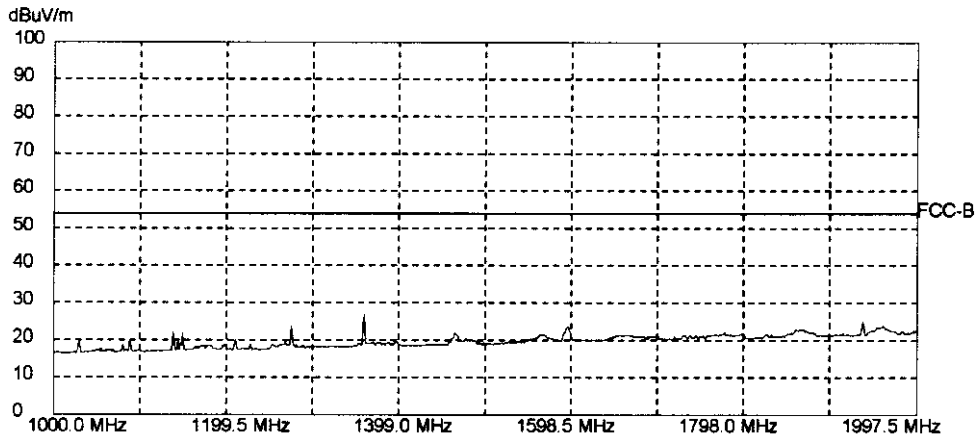
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
Serial Number: F4C, w/o Aux pwr cable
Manufacturer: Intel
Job Number: INTE2335
Date/Time: 11-17-1998 09:05:18
Tested By: Mark Daley, EL01
Test Distance: 3
Comments: PC system #1, running ST, random data, 100Mbps, 1024 pkt, pulse H1012
Run #3, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
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No Data above the report threshold

Mark W. Daley

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F67, w/ Aux pwr cable

Manufacturer: Intel

Job Number: INTE2335

Date/Time: 11-17-1998 09:48:30

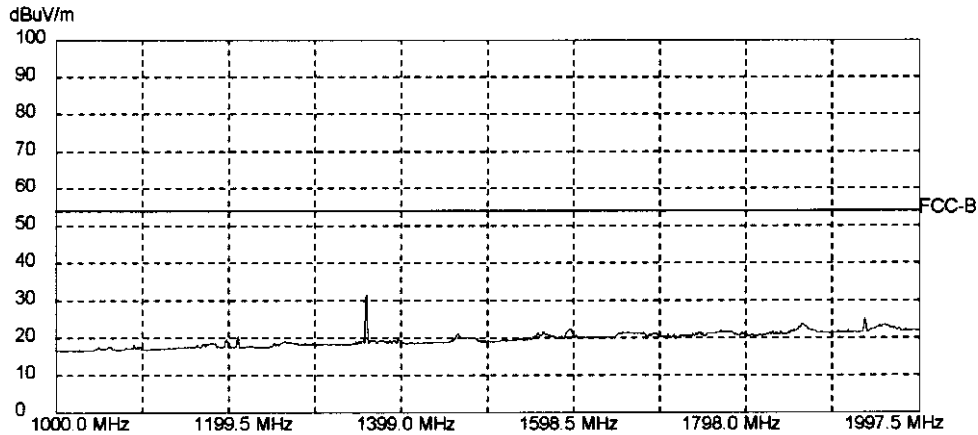
Tested By: Mark Daley, EL01

Test Distance: 3

Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, pulse H1088
Run #8, U2=SC, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
1358.750	36.1	Hor.	-4.4	31.7	54.0	-22.3

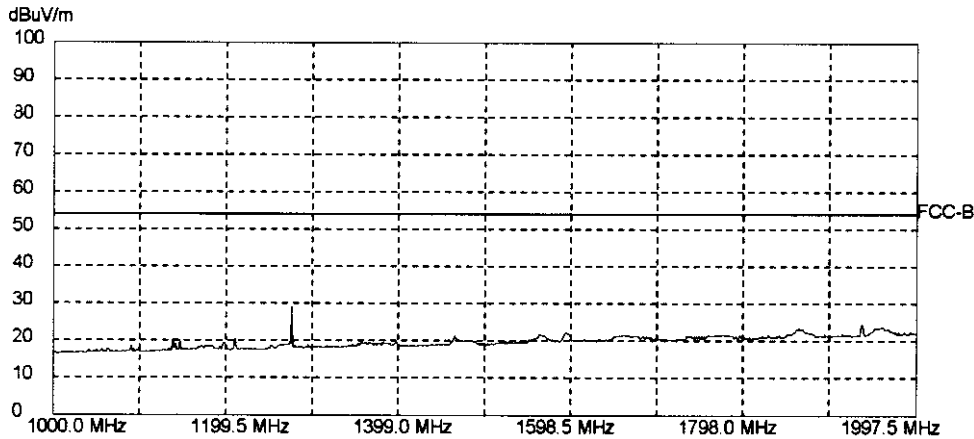
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: F67, w/ Aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-17-1998 09:58:46
 Tested By: Mark Daley, EL01
 Test Distance: 3
 Comments: PC system #1, running ST, random data, 100Mbps, 1024 pkt, pulse H1088
 Run #10, U2=SC, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
1275.000	34.0	Hor.	-4.9	29.1	54.0	-24.9

Mark W. Daley

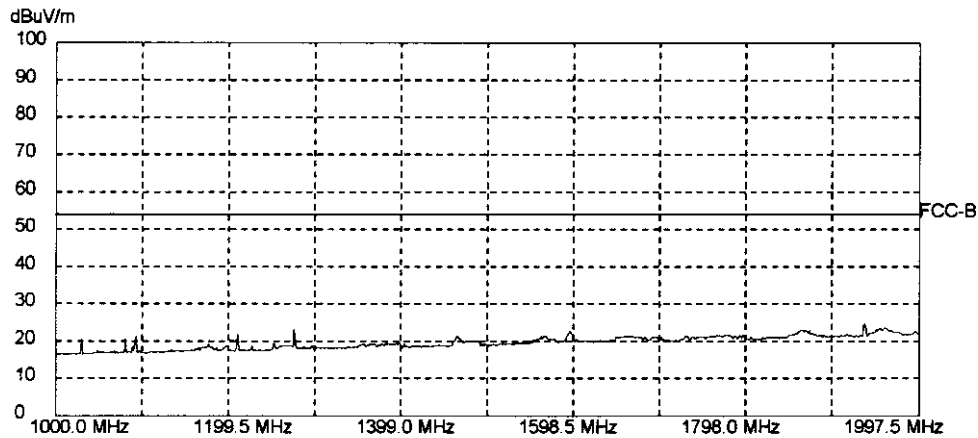
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PiLA84xxx
 Serial Number: F67, w/o Aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-17-1998 10:07:41
 Tested By: Mark Daley, EL01
 Test Distance: 3
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, pulse H1088
 Run #11, U2=SC, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
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No Data above the report threshold

Mark W. Daley

Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx

Serial Number: F67, w/o Aux pwr cable

Manufacturer: Intel

Job Number: INTE2335

Date/Time: 11-17-1998 10:14:19

Tested By: Mark Daley, EL01

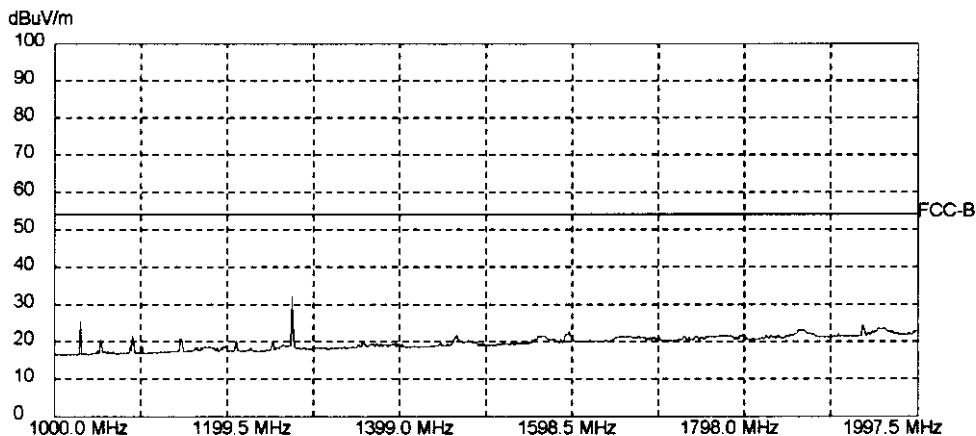
Test Distance: 3

Comments: PC system #1, running ST, random data, 100Mbps, 1024 pkt, pulse H1088

Run #12, U2=SC, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
1273.750	37.1	Hor.	-4.9	32.2	54.0	-21.8
1030.000	31.4	Hor.	-5.9	25.5	54.0	-28.5
1934.984	26.1	Ver.	-1.8	24.3	54.0	-29.7

Mark W. Daley

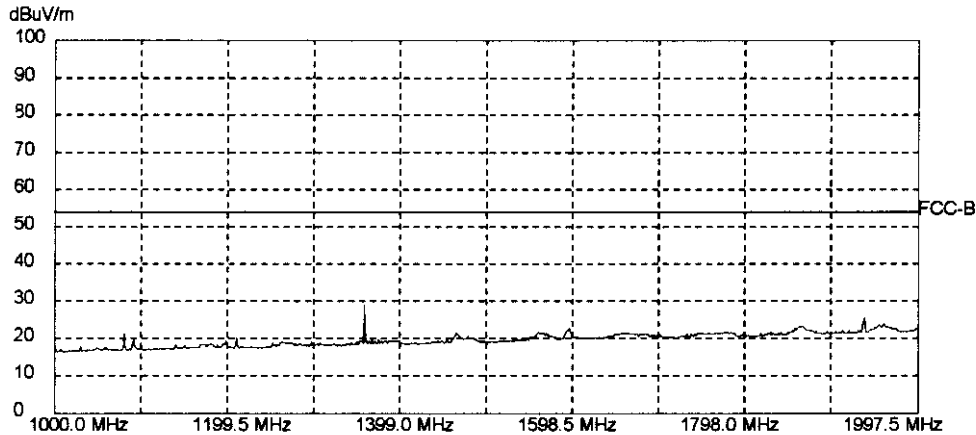
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: FD9, w/ Aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-17-1998 09:30:58
 Tested By: Mark Daley, EL01
 Test Distance: 3
 Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, pulse H1012
 Run #7, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
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No Data above the report threshold

Mark W. Daley

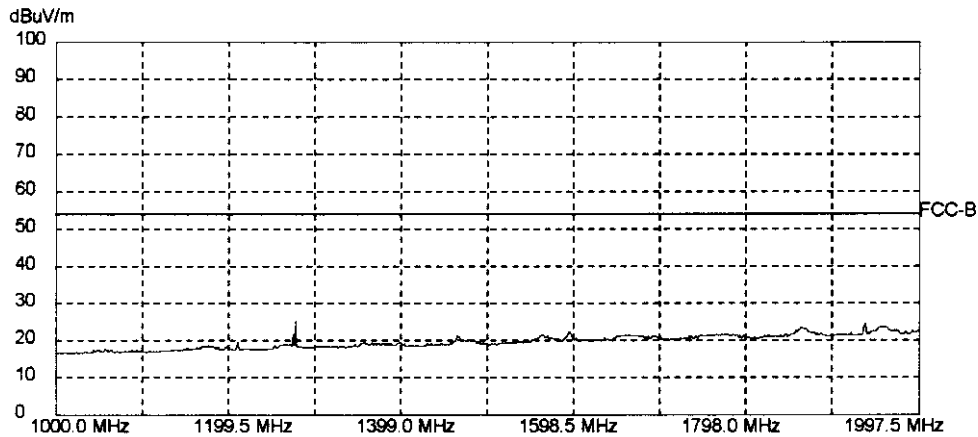
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
Serial Number: FD9, w/ Aux pwr cable
Manufacturer: Intel
Job Number: INTE2335
Date/Time: 11-17-1998 09:36:41
Tested By: Mark Daley, EL01
Test Distance: 3
Comments: PC system #1, running ST, random data, 100Mbps, 1024 pkt, pulse H1012
Run #8, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
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No Data above the report threshold

Mark W. Daley

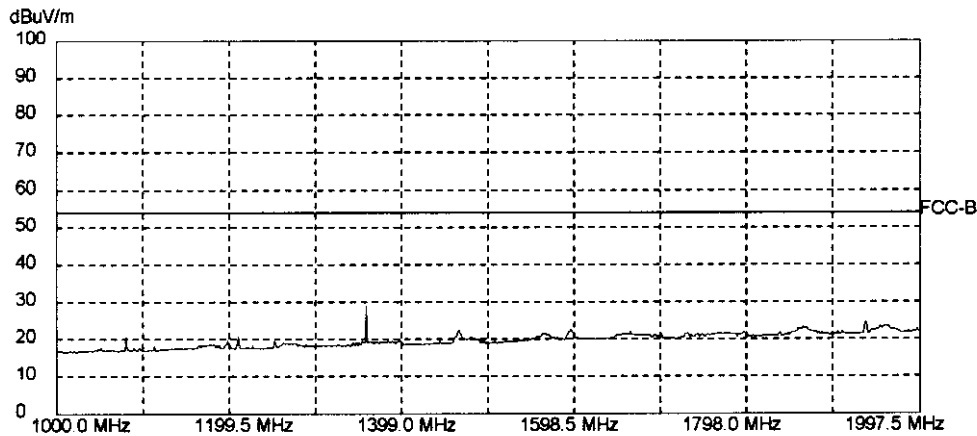
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
Serial Number: FD9, w/o Aux pwr cable
Manufacturer: Intel
Job Number: INTE2335
Date/Time: 11-17-1998 09:15:41
Tested By: Mark Daley, EL01
Test Distance: 3
Comments: PC system #1, running ST, random data, 10Mbps, 1024 pkt, pulse H1012
Run #5, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
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No Data above the report threshold

Mark W. Daley

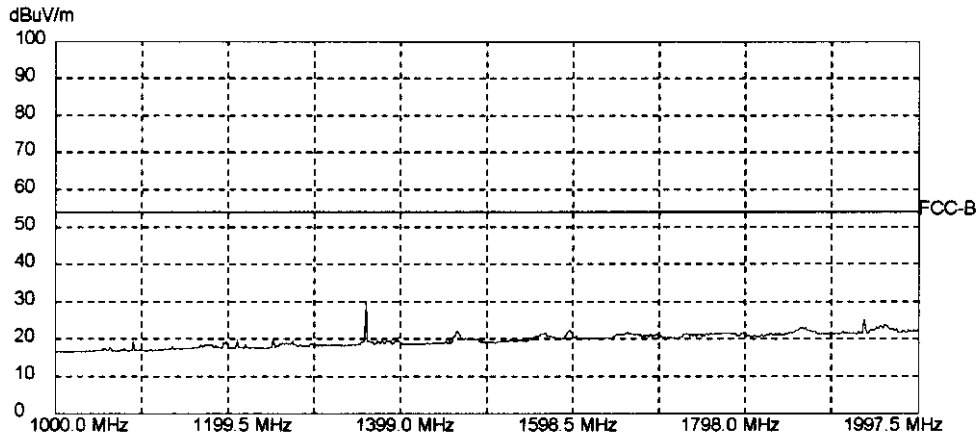
Northwest EMC, Inc.

Ver 5.4a, Jan 1997

Equipment Tested: PB721503-004 PILA84xxx
 Serial Number: FD9, w/o Aux pwr cable
 Manufacturer: Intel
 Job Number: INTE2335
 Date/Time: 11-17-1998 09:22:27
 Tested By: Mark Daley, EL01
 Test Distance: 3
 Comments: PC system #1, running ST, random data, 100Mbps, 1024 pkt, pulse H1012
 Run #6, U2=CMD, RP3=NO

FCC Class B Radiated Specification Limit (3 meter)

Peak data.



Frequency (MHz)	Meter Reading (dBuV)	Antenna Horizontal Vertical	Correction Factor (dB/m)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Compared To Limit (dB)
1358.750	34.6	Hor.	-4.4	30.2	54.0	-23.8

Mark W. Daley

7.2 Field Strength Calculations

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured level. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

where : FS = Field Strength

RA = Measured Level

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

Assume a receiver reading of 52.5 dBuV is obtained. The Antenna Factor of 7.4 and a Cable Factor of 1.1 is added. The Amplifier Gain of 29 dB is subtracted, giving a field strength of 32 dBuV/meter.

$$FS = 52.5 + 7.4 + 1.1 - 29 = 32 \text{ dBuV/meter}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32 \text{ dBuV/m})/20] = 39.8 \text{ } \mu\text{V/m}$$

7.3 Measurement Bandwidths

Peak Data

150 kHz - 30 MHz	10 kHz
30 MHz - 1000 MHz	100 kHz
1000 MHz - 2000 MHz	1000 kHz

Quasi-peak Data

150 kHz - 30 MHz	9 kHz
30 MHz - 1000 MHz	120 kHz

All radiated measurements are quasi-peak unless otherwise stated. A video filter was not used.
All conducted measurements are peak unless otherwise stated. A video filter was not used.

8.0 Measurement Equipment

Instrument	Model	Serial No.	Freq Range	Last Cal	Cal Due
Spectrum Analyzer	HP 8567A	2718A00358	10 kHz - 1.5 GHz	04/21/98	04/21/99
Spectrum Analyzer	HP 8594E	3543A02557	9 kHz - 2.9 GHz	04/03/98	04/03/99
Quasi Peak Adapter	HP 85650A	2811A01175	10 kHz - 1000 MHz	02/20/98	02/20/99
LISN	Solar 9252-50-24-BNC	971602	10 kHz - 50 MHz	04/09/98	04/09/99
LISN	Solar 9252-50-24-BNC	971623	10 kHz - 50 MHz	04/22/98	04/22/99
Log Periodic Antenna	EMCO 3146	9212-3486	200 MHz - 1000 MHz	01/31/98	01/31/99
Bicon Antenna	EMCO 3104	1240	30 MHz - 200 MHz	01/31/98	01/31/99
Pre-Amplifier	AR LN1000A	15224	100 kHz - 1300 MHz	07/20/98	07/20/99
Pre-Amplifier	Miteq	565125	0.5 GHz - 18 GHz	06/15/98	06/15/99
Horn Antenna	EMCO 3115	9710-5305	1 GHz - 18 GHz	04/21/97	04/21/99

Appendix I: Measurement Procedures

Each frequency was measured in both the horizontal and vertical antenna polarization's.

The EUT position was maximized for each frequency, for both the horizontal and vertical antenna polarization's, using a remotely controlled turntable.

The antenna height was varied from 1 - 4 meters at each frequency, for both the horizontal and vertical positions to maximize the emission level.

The cable and peripheral positions were manipulated to ensure maximum levels at each frequency for both horizontal and vertical antenna polarization's.

Measurements 30 MHz - 1000 MHz are made at an antenna to EUT distance of 10 meters.

Measurements 1000 MHz - 2000 MHz are made at an antenna to EUT distance of 3 meters.