



TESTING

CERT #803.01, 803.02, 803.05, 803.06

MYRICOM, INC. TEST REPORT

FOR THE

**10 GIGABIT PCI EXPRESS ADD-IN CARD,
10G-PCIE-8BL-2S & 10G-PCIE-8BL-QP**

**EN55024 (1998 W/A1: 01 & A2: 03), EN55022 (2006) CLASS A,
CISPR 22 (1997) CLASS A
& FCC PART 15 SUBPART B SECTION 15.109 CLASS A**

TESTING

DATE OF ISSUE: JANUARY 29, 2009

PREPARED FOR:

Myricom, Inc.
325 North Santa Anita Ave.
Arcadia, CA 91006

P.O. No.: 09564
W.O. No.: 88959

PREPARED BY:

Mary Ellen Clayton
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Date of test: December 29, 2008 –
January 2, 2009

Report No.: CE09-017

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ADMINISTRATIVE INFORMATION

DATE OF TEST: December 29, 2008 -
January 2, 2009

DATE OF RECEIPT: December 29, 2008

REPRESENTATIVE: Alan Kulawik

MANUFACTURER:
Myricom, Inc.
325 North Santa Anita Ave.
Arcadia, CA 91006

TEST LOCATION:
CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92823

TEST METHOD*: EN55024 (1998 w/A1: 01 & A2: 03), EN55022 (2006) and ANSI C63.4 (2003)

*Note: 2004/108/EC Article 6.2 stipulates that compliance with the relevant harmonized standard whose references have been published in the Official Journal (OJ) of the European Union shall raise presumption, on the part of the Member States, of conformity with the essential requirements referred to in Annex I to which such standards relate. However, for convenience and to reduce confusion, the date of the CENELEC harmonized standard is used in this report. Should questions arise, the national standard transposed from the harmonized (BS EN) is the official standard used.

PURPOSE OF TEST: To perform the testing of the 10 Gigabit PCI Express Add-in Card, 10G-PCIE-8BL-2S & 10G-PCIE-8BL-QP with the requirements for EN55024, EN55022 Class A, CISPR 22 Class A and FCC Part 15 Subpart B Section 15.109 Class A devices.

APPROVALS

QUALITY ASSURANCE:



Steve Behm, Director of Engineering Services

TEST PERSONNEL:



Stuart Yamamoto, Senior EMC Engineer

SITE FILE REGISTRATION NUMBERS

Location	Japan	Canada	FCC
Brea D	R-1256, C-1319 & T-291	3082D-2	100638

SUMMARY OF RESULTS

Test	Specification/Method	Results
Mains Conducted Emissions	EN55022 (2006) Class A CISPR 22 (1997) to ANSI C63.4 (2003) Class A	Pass
Radiated Emissions	EN55022 (2006) Class A CISPR 22 (1997) to ANSI C63.4 (2003) Class A FCC Part 15 Subpart B Section 15.109 Class A	Pass
Electrostatic Discharge	EN61000-4-2 (1995) EN55024 (1998 w/A1: 01 & A2: 03)	Pass
Radiated Immunity	EN61000-4-3 (1997) EN55024 (1998 w/A1: 01 & A2: 03)	Pass
Electrical Fast Transient Burst	EN61000-4-4 (1995) EN55024 (1998 w/A1: 01 & A2: 03)	Pass
Surge	EN61000-4-5 (1995) EN55024 (1998 w/A1: 01 & A2: 03)	Pass
Conducted Immunity	EN61000-4-6 (1996) EN55024 (1998 w/A1: 01 & A2: 03)	Pass
Magnetic Immunity	EN61000-4-8 (1994) EN55024 (1998 w/A1: 01 & A2: 03)	Pass
Voltage Dips & Interrupts	EN61000-4-11 (1994) EN55024 (1998 w/A1: 01 & A2: 03)	Pass

CONDITIONS DURING TESTING

No modifications to the EUT were necessary during testing.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit. The EUTs are LAN interface cards (PCI Express add-in cards).

EQUIPMENT UNDER TEST

10 Gigabit PCI Express Add-in Card

Manuf: Myricom, Inc.
Model: 10G-PCIE-8BL-2S
Serial: 353788

10 Gigabit PCI Express Add-in Card

Manuf: Myricom, Inc.
Model: 10G-PCIE-8BL-QP
Serial: 354263

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Monitor

Manuf: MPC
Model: TFT1780PS
Serial: F1775iS004089

Printer

Manuf: Epson
Model: P950A
Serial: A5PY416008

USB Gamepad

Manuf: Microsoft Corporation
Model: X04-63237
Serial: 6323700759385

PS/2 Keyboard

Manuf: Compaq Corporation
Model: 160648-101
Serial: 31646576

PS/2 Mouse

Manuf: Microsoft Corporation
Model: 93633
Serial: 1734893-50000

Desktop Computer

Manuf: Minuet
Model: Minuet 8
Serial: NA

REPORT OF EMISSIONS MEASUREMENTS

TESTING PARAMETERS

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dB μ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. The following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. When conducted emissions testing was performed, a 10 dB external attenuator was used with internal offset correction in the analyzer.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings were recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

CONDUCTED EMISSIONS

Test Setup Photos



Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **EN55022 (2006) Conducted Class A AVG**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Conducted Emissions** Time: 4:39:41 PM
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 7
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below 235Vac 50Hz
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Quasi Peak Adapter	2043A00231	03/20/2008	03/20/2010	00090
Spectrum Analyzer Display	2403A07316	03/20/2008	03/20/2010	00043
Spectrum Analyzer RF	2415A00481	03/20/2008	03/20/2010	00042
High Pass Filter	D5201	01/31/2007	01/31/2009	02343
LISN	1090	05/14/2007	05/14/2009	02128
LISN	1102	05/11/2007	05/11/2009	00848
Coaxial Cable	Cable #8	04/29/2008	04/29/2010	P01910
6dB Attenuator	None	10/14/2008	10/14/2010	P05611
Attenuator	None	10/14/2008	10/14/2010	P05886

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa.

Transducer Legend:

T1=HP Filter AN 02343_013108	T2=Cable #8 ANP01910
T3=6dB atten-P05886-101410.TRN	T4=(L2) LISN Insertion Loss 02128

Measurement Data:

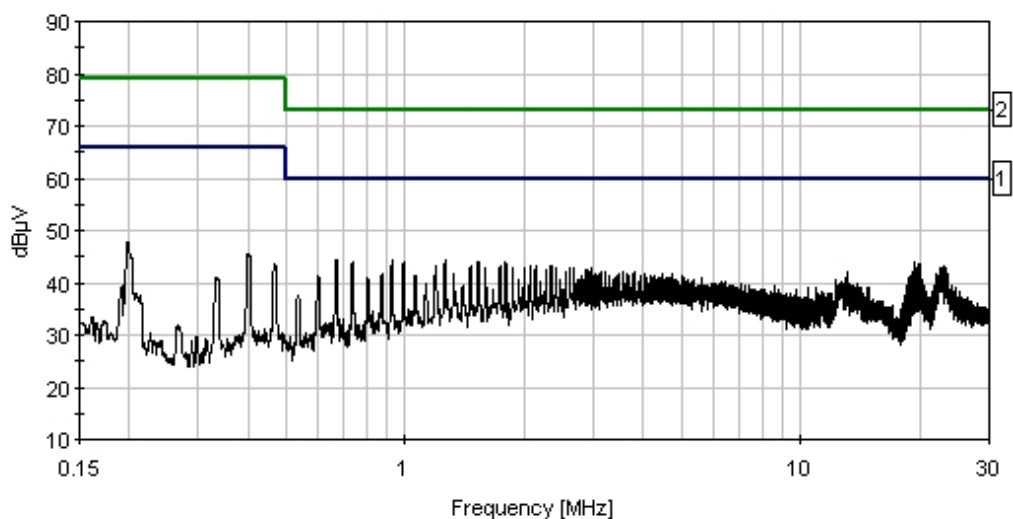
Reading listed by margin.

Test Lead: Blue

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	667.766k	37.9	+0.3	+0.1	+6.1	+0.1	+0.0	44.5	60.0	-15.5	Blue
2	1.264M	37.9	+0.2	+0.1	+6.1	+0.1	+0.0	44.4	60.0	-15.6	Blue
3	928.036k	37.6	+0.3	+0.1	+6.1	+0.1	+0.0	44.2	60.0	-15.8	Blue
4	19.391M	36.4	+0.3	+0.4	+6.1	+0.9	+0.0	44.1	60.0	-15.9	Blue
5	991.831k	37.5	+0.2	+0.1	+6.1	+0.1	+0.0	44.0	60.0	-16.0	Blue
6	1.532M	37.4	+0.2	+0.1	+6.1	+0.2	+0.0	44.0	60.0	-16.0	Blue
7	1.796M	37.4	+0.2	+0.1	+6.1	+0.2	+0.0	44.0	60.0	-16.0	Blue
8	734.669k	37.3	+0.3	+0.1	+6.1	+0.1	+0.0	43.9	60.0	-16.1	Blue
9	19.869M	36.1	+0.2	+0.4	+6.1	+0.9	+0.0	43.7	60.0	-16.3	Blue
10	20.004M	35.9	+0.1	+0.4	+6.1	+0.9	+0.0	43.4	60.0	-16.6	Blue
11	2.136M	36.7	+0.2	+0.1	+6.1	+0.2	+0.0	43.3	60.0	-16.7	Blue
12	2.336M	36.7	+0.1	+0.2	+6.1	+0.2	+0.0	43.3	60.0	-16.7	Blue
13	1.192M	36.7	+0.2	+0.1	+6.1	+0.1	+0.0	43.2	60.0	-16.8	Blue
14	1.736M	36.6	+0.2	+0.1	+6.1	+0.2	+0.0	43.2	60.0	-16.8	Blue
15	2.068M	36.6	+0.2	+0.1	+6.1	+0.2	+0.0	43.2	60.0	-16.8	Blue
16	23.085M	35.2	+0.3	+0.4	+6.1	+1.2	+0.0	43.2	60.0	-16.8	Blue
17	1.464M	36.6	+0.2	+0.1	+6.1	+0.1	+0.0	43.1	60.0	-16.9	Blue
18	1.868M	36.4	+0.2	+0.1	+6.1	+0.2	+0.0	43.0	60.0	-17.0	Blue
19	2.404M	36.4	+0.1	+0.2	+6.1	+0.2	+0.0	43.0	60.0	-17.0	Blue
20	22.562M	35.1	+0.2	+0.4	+6.1	+1.2	+0.0	43.0	60.0	-17.0	Blue
21	2.608M	36.3	+0.1	+0.2	+6.1	+0.2	+0.0	42.9	60.0	-17.1	Blue
22	19.598M	35.2	+0.3	+0.4	+6.1	+0.9	+0.0	42.9	60.0	-17.1	Blue

23	19.734M	35.3	+0.2	+0.4	+6.1	+0.9	+0.0	42.9	60.0	-17.1	Blue
24	23.312M	35.0	+0.2	+0.4	+6.1	+1.2	+0.0	42.9	60.0	-17.1	Blue
25	2.672M	36.2	+0.1	+0.2	+6.1	+0.2	+0.0	42.8	60.0	-17.2	Blue
26	2.944M	36.2	+0.1	+0.2	+6.1	+0.2	+0.0	42.8	60.0	-17.2	Blue
27	19.463M	35.1	+0.3	+0.4	+6.1	+0.9	+0.0	42.8	60.0	-17.2	Blue
28	1.596M	36.1	+0.2	+0.1	+6.1	+0.2	+0.0	42.7	60.0	-17.3	Blue
29	2.000M	36.1	+0.2	+0.1	+6.1	+0.2	+0.0	42.7	60.0	-17.3	Blue
30	19.671M	35.1	+0.2	+0.4	+6.1	+0.9	+0.0	42.7	60.0	-17.3	Blue

CKC Laboratories, Inc. Date: 12/31/2008 Time: 4:39:41 PM Myricom, Inc. WO#: 88959
 EN55022 (2006) Conducted Class A AVG Test Lead: Blue 235Vac 50Hz Sequence#: 7
 Myricom, Inc.



— Sweep Data
 — 1 - EN55022 (2006) Conducted Class A AVG
 — 2 - EN55022 (2006) Conducted Class A QP

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **EN55022 (2006) Conducted Class A AVG**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Conducted Emissions** Time: 4:36:29 PM
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 6
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below 235Vac 50Hz
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Quasi Peak Adapter	2043A00231	03/20/2008	03/20/2010	00090
Spectrum Analyzer Display	2403A07316	03/20/2008	03/20/2010	00043
Spectrum Analyzer RF	2415A00481	03/20/2008	03/20/2010	00042
High Pass Filter	D5201	01/31/2007	01/31/2009	02343
LISN	1090	05/14/2007	05/14/2009	02128
LISN	1102	05/11/2007	05/11/2009	00848
Coaxial Cable	Cable #8	04/29/2008	04/29/2010	P01910
6dB Attenuator	None	10/14/2008	10/14/2010	P05611
Attenuator	None	10/14/2008	10/14/2010	P05886

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa.

Transducer Legend:

T1=HP Filter AN 02343_013108	T2=Cable #8 ANP01910
T3=6dB atten-P05886-101410.TRN	T4=(L1) LISN Insertion Loss 02128

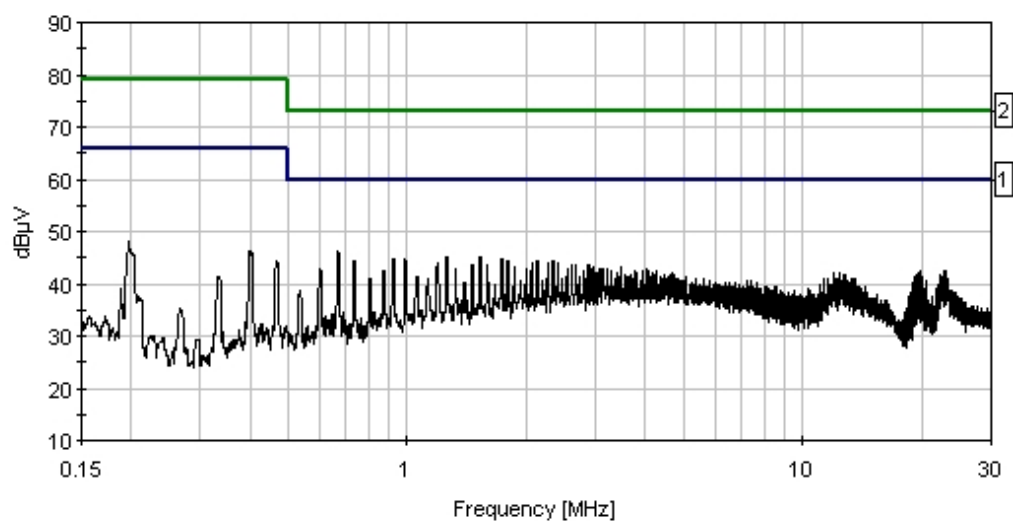
Measurement Data: Reading listed by margin. Test Lead: Brown

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	668.494k	39.6	+0.3	+0.1	+6.1	+0.2	+0.0	46.3	60.0	-13.7	Brown

2	1.528M	38.6	+0.2	+0.1	+6.1	+0.2	+0.0	45.2	60.0	-14.8	Brown
3	1.256M	38.5	+0.2	+0.1	+6.1	+0.2	+0.0	45.1	60.0	-14.9	Brown
4	919.530k	38.2	+0.3	+0.1	+6.1	+0.2	+0.0	44.9	60.0	-15.1	Brown
5	987.578k	38.2	+0.2	+0.1	+6.1	+0.2	+0.0	44.8	60.0	-15.2	Brown
6	1.732M	38.1	+0.2	+0.1	+6.1	+0.2	+0.0	44.7	60.0	-15.3	Brown
7	1.796M	37.9	+0.2	+0.1	+6.1	+0.2	+0.0	44.5	60.0	-15.5	Brown
8	2.132M	37.7	+0.2	+0.1	+6.1	+0.2	+0.0	44.3	60.0	-15.7	Brown
9	733.942k	37.5	+0.3	+0.1	+6.1	+0.2	+0.0	44.2	60.0	-15.8	Brown
10	2.336M	37.5	+0.1	+0.2	+6.1	+0.3	+0.0	44.2	60.0	-15.8	Brown
11	1.196M	37.4	+0.2	+0.1	+6.1	+0.2	+0.0	44.0	60.0	-16.0	Brown
12	2.064M	37.2	+0.2	+0.1	+6.1	+0.2	+0.0	43.8	60.0	-16.2	Brown
13	2.268M	37.1	+0.1	+0.2	+6.1	+0.3	+0.0	43.8	60.0	-16.2	Brown
14	2.404M	37.1	+0.1	+0.2	+6.1	+0.3	+0.0	43.8	60.0	-16.2	Brown
15	1.460M	37.0	+0.2	+0.1	+6.1	+0.2	+0.0	43.6	60.0	-16.4	Brown
16	1.600M	36.9	+0.2	+0.1	+6.1	+0.2	+0.0	43.5	60.0	-16.5	Brown
17	2.668M	36.8	+0.1	+0.2	+6.1	+0.3	+0.0	43.5	60.0	-16.5	Brown
18	2.872M	36.8	+0.1	+0.2	+6.1	+0.3	+0.0	43.5	60.0	-16.5	Brown
19	2.604M	36.7	+0.1	+0.2	+6.1	+0.3	+0.0	43.4	60.0	-16.6	Brown
20	1.864M	36.7	+0.2	+0.1	+6.1	+0.2	+0.0	43.3	60.0	-16.7	Brown
21	2.944M	36.6	+0.1	+0.2	+6.1	+0.3	+0.0	43.3	60.0	-16.7	Brown
22	3.480M	36.3	+0.2	+0.2	+6.1	+0.3	+0.0	43.1	60.0	-16.9	Brown
23	3.076M	36.3	+0.1	+0.2	+6.1	+0.3	+0.0	43.0	60.0	-17.0	Brown
24	1.324M	36.3	+0.2	+0.1	+6.1	+0.2	+0.0	42.9	60.0	-17.1	Brown
25	600.137k	36.1	+0.3	+0.1	+6.1	+0.2	+0.0	42.8	60.0	-17.2	Brown
26	2.536M	36.1	+0.1	+0.2	+6.1	+0.3	+0.0	42.8	60.0	-17.2	Brown

27	3.208M	36.1	+0.1	+0.2	+6.1	+0.3	+0.0	42.8	60.0	-17.2	Brown
28	4.016M	36.1	+0.1	+0.2	+6.1	+0.3	+0.0	42.8	60.0	-17.2	Brown
29	2.000M	36.1	+0.2	+0.1	+6.1	+0.2	+0.0	42.7	60.0	-17.3	Brown
30	3.140M	36.0	+0.1	+0.2	+6.1	+0.3	+0.0	42.7	60.0	-17.3	Brown

CKC Laboratories, Inc. Date: 12/31/2008 Time: 4:36:29 PM Myricom, Inc. WVO#: 88959
 EN55022 (2006) Conducted Class A AVG Test Lead: Brown 235Vac 50Hz Sequence#: 6
 Myricom, Inc.



— Sweep Data
 — 1 - EN55022 (2006) Conducted Class A AVG
 — 2 - EN55022 (2006) Conducted Class A QP

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **CISPR22 (1997) Conducted Class A AVG**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Conducted Emissions** Time: 4:22:17 PM
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 4
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below 110V 60Hz
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Quasi Peak Adapter	2043A00231	03/20/2008	03/20/2010	00090
Spectrum Analyzer Display	2403A07316	03/20/2008	03/20/2010	00043
Spectrum Analyzer RF	2415A00481	03/20/2008	03/20/2010	00042
High Pass Filter	D5201	01/31/2007	01/31/2009	02343
LISN	1090	05/14/2007	05/14/2009	02128
LISN	1102	05/11/2007	05/11/2009	00848
Coaxial Cable	Cable #8	04/29/2008	04/29/2010	P01910
6dB Attenuator	None	10/14/2008	10/14/2010	P05611
Attenuator	None	10/14/2008	10/14/2010	P05886

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa.

Transducer Legend:

T1=HP Filter AN 02343_013108	T2=Cable #8 ANP01910
T3=6dB atten-P05886-101410.TRN	T4=(L1) LISN Insertion Loss 02128

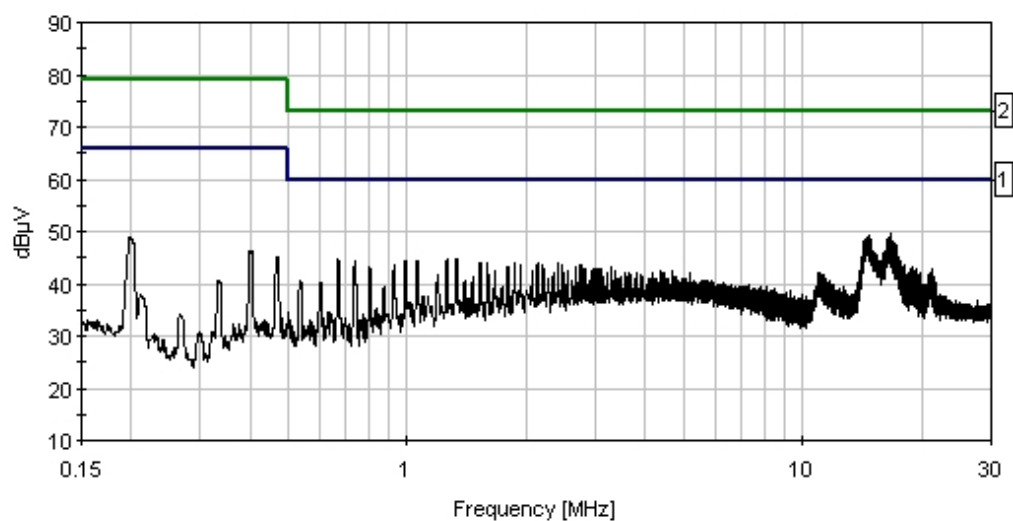
Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	16.662M	42.2	+0.2	+0.3	+6.1	+0.9	+0.0	49.7	60.0	-10.3	Black

2	14.770M	42.0	+0.2	+0.3	+6.1	+0.8	+0.0	49.4	60.0	-10.6	Black
3	16.725M	41.8	+0.2	+0.3	+6.1	+0.9	+0.0	49.3	60.0	-10.7	Black
4	16.589M	41.4	+0.2	+0.3	+6.1	+0.9	+0.0	48.9	60.0	-11.1	Black
5	14.905M	41.2	+0.2	+0.3	+6.1	+0.8	+0.0	48.6	60.0	-11.4	Black
6	16.382M	41.0	+0.2	+0.3	+6.1	+0.9	+0.0	48.5	60.0	-11.5	Black
7	14.833M	41.0	+0.2	+0.3	+6.1	+0.8	+0.0	48.4	60.0	-11.6	Black
8	14.310M	40.9	+0.2	+0.3	+6.1	+0.8	+0.0	48.3	60.0	-11.7	Black
9	16.256M	40.7	+0.2	+0.3	+6.1	+0.9	+0.0	48.2	60.0	-11.8	Black
10	16.860M	40.7	+0.2	+0.3	+6.1	+0.9	+0.0	48.2	60.0	-11.8	Black
11	16.788M	40.3	+0.2	+0.3	+6.1	+0.9	+0.0	47.8	60.0	-12.2	Black
12	17.121M	40.3	+0.2	+0.3	+6.1	+0.9	+0.0	47.8	60.0	-12.2	Black
13	16.319M	39.9	+0.2	+0.3	+6.1	+0.9	+0.0	47.4	60.0	-12.6	Black
14	17.193M	39.9	+0.2	+0.3	+6.1	+0.9	+0.0	47.4	60.0	-12.6	Black
15	16.923M	39.7	+0.2	+0.3	+6.1	+0.9	+0.0	47.2	60.0	-12.8	Black
16	14.968M	39.5	+0.2	+0.3	+6.1	+0.8	+0.0	46.9	60.0	-13.1	Black
17	14.175M	39.3	+0.2	+0.3	+6.1	+0.8	+0.0	46.7	60.0	-13.3	Black
18	14.238M	39.3	+0.2	+0.3	+6.1	+0.8	+0.0	46.7	60.0	-13.3	Black
19	16.121M	38.8	+0.2	+0.3	+6.1	+0.9	+0.0	46.3	60.0	-13.7	Black
20	17.328M	38.2	+0.3	+0.4	+6.1	+0.9	+0.0	45.9	60.0	-14.1	Black
21	17.256M	38.2	+0.3	+0.3	+6.1	+0.9	+0.0	45.8	60.0	-14.2	Black
22	17.391M	37.4	+0.3	+0.4	+6.1	+0.9	+0.0	45.1	60.0	-14.9	Black
23	17.463M	37.1	+0.3	+0.4	+6.1	+0.9	+0.0	44.8	60.0	-15.2	Black
24	669.221k	38.0	+0.3	+0.1	+6.1	+0.2	+0.0	44.7	60.0	-15.3	Black
25	1.332M	38.1	+0.2	+0.1	+6.1	+0.2	+0.0	44.7	60.0	-15.3	Black
26	14.130M	37.3	+0.2	+0.3	+6.1	+0.8	+0.0	44.7	60.0	-15.3	Black

27	1.260M	38.0	+0.2	+0.1	+6.1	+0.2	+0.0	44.6	60.0	-15.4	Black
28	735.396k	37.8	+0.3	+0.1	+6.1	+0.2	+0.0	44.5	60.0	-15.5	Black
29	17.662M	36.8	+0.3	+0.4	+6.1	+0.9	+0.0	44.5	60.0	-15.5	Black
30	987.578k	37.8	+0.2	+0.1	+6.1	+0.2	+0.0	44.4	60.0	-15.6	Black

CKC Laboratories, Inc. Date: 12/31/2008 Time: 4:22:17 PM Myricom, Inc. WFO#: 88959
 CISPR22 (1997) Conducted Class A AVG Test Lead: Black 110V 60Hz Sequence#: 4
 Myricom, Inc.



— Sweep Data
 — 1 - CISPR22 (1997) Conducted Class A AVG
 — 2 - CISPR22 (1997) Conducted Class A QP

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **CISPR22 (1997) Conducted Class A AVG**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Conducted Emissions** Time: 4:28:41 PM
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 5
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below 110V 60Hz
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Quasi Peak Adapter	2043A00231	03/20/2008	03/20/2010	00090
Spectrum Analyzer Display	2403A07316	03/20/2008	03/20/2010	00043
Spectrum Analyzer RF	2415A00481	03/20/2008	03/20/2010	00042
High Pass Filter	D5201	01/31/2007	01/31/2009	02343
LISN	1090	05/14/2007	05/14/2009	02128
LISN	1102	05/11/2007	05/11/2009	00848
Coaxial Cable	Cable #8	04/29/2008	04/29/2010	P01910
6dB Attenuator	None	10/14/2008	10/14/2010	P05611
Attenuator	None	10/14/2008	10/14/2010	P05886

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa.

Transducer Legend:

T1=HP Filter AN 02343_013108	T2=Cable #8 ANP01910
T3=6dB atten-P05886-101410.TRN	T4=(L2) LISN Insertion Loss 02128

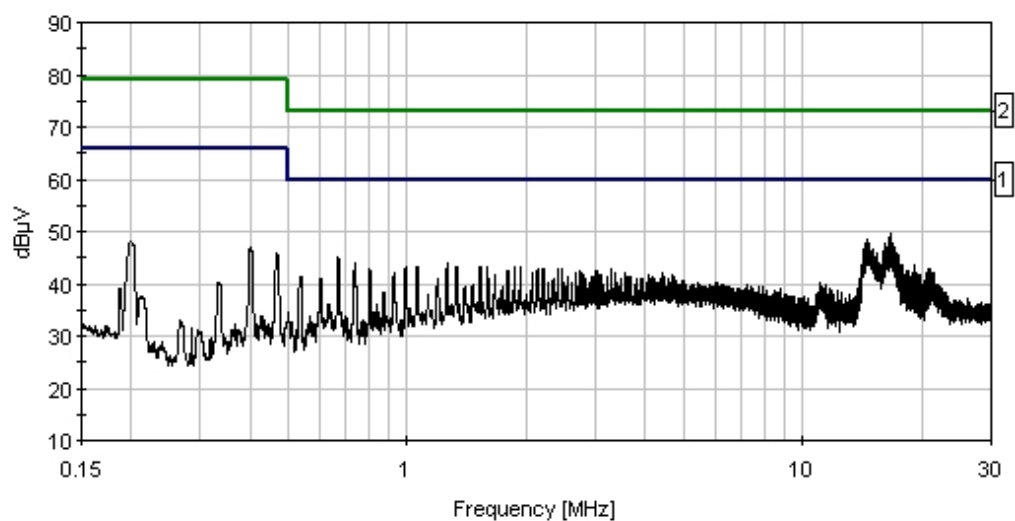
Measurement Data: Reading listed by margin. Test Lead: White

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	16.653M	42.3	+0.2	+0.3	+6.1	+0.8	+0.0	49.7	60.0	-10.3	White

2	16.517M	41.3	+0.2	+0.3	+6.1	+0.8	+0.0	48.7	60.0	-11.3	White
3	16.716M	41.3	+0.2	+0.3	+6.1	+0.8	+0.0	48.7	60.0	-11.3	White
4	14.571M	41.2	+0.2	+0.3	+6.1	+0.8	+0.0	48.6	60.0	-11.4	White
5	16.788M	41.1	+0.2	+0.3	+6.1	+0.8	+0.0	48.5	60.0	-11.5	White
6	14.634M	41.0	+0.2	+0.3	+6.1	+0.8	+0.0	48.4	60.0	-11.6	White
7	14.698M	40.5	+0.2	+0.3	+6.1	+0.8	+0.0	47.9	60.0	-12.1	White
8	16.977M	40.5	+0.2	+0.3	+6.1	+0.8	+0.0	47.9	60.0	-12.1	White
9	14.490M	40.4	+0.2	+0.3	+6.1	+0.8	+0.0	47.8	60.0	-12.2	White
10	16.184M	40.3	+0.2	+0.3	+6.1	+0.8	+0.0	47.7	60.0	-12.3	White
11	16.580M	40.3	+0.2	+0.3	+6.1	+0.8	+0.0	47.7	60.0	-12.3	White
12	16.923M	40.3	+0.2	+0.3	+6.1	+0.8	+0.0	47.7	60.0	-12.3	White
13	14.427M	40.2	+0.2	+0.3	+6.1	+0.8	+0.0	47.6	60.0	-12.4	White
14	16.445M	40.2	+0.2	+0.3	+6.1	+0.8	+0.0	47.6	60.0	-12.4	White
15	14.761M	39.8	+0.2	+0.3	+6.1	+0.8	+0.0	47.2	60.0	-12.8	White
16	16.382M	39.7	+0.2	+0.3	+6.1	+0.8	+0.0	47.1	60.0	-12.9	White
17	17.049M	39.4	+0.2	+0.3	+6.1	+0.8	+0.0	46.8	60.0	-13.2	White
18	14.292M	39.2	+0.2	+0.3	+6.1	+0.8	+0.0	46.6	60.0	-13.4	White
19	16.310M	39.2	+0.2	+0.3	+6.1	+0.8	+0.0	46.6	60.0	-13.4	White
20	17.121M	39.1	+0.2	+0.3	+6.1	+0.8	+0.0	46.5	60.0	-13.5	White
21	17.328M	38.3	+0.3	+0.4	+6.1	+0.9	+0.0	46.0	60.0	-14.0	White
22	17.391M	37.7	+0.3	+0.4	+6.1	+0.9	+0.0	45.4	60.0	-14.6	White
23	14.166M	37.8	+0.2	+0.3	+6.1	+0.8	+0.0	45.2	60.0	-14.8	White
24	14.220M	37.8	+0.2	+0.3	+6.1	+0.8	+0.0	45.2	60.0	-14.8	White
25	668.494k	38.5	+0.3	+0.1	+6.1	+0.1	+0.0	45.1	60.0	-14.9	White
26	15.914M	37.6	+0.2	+0.3	+6.1	+0.8	+0.0	45.0	60.0	-15.0	White

27	17.256M	37.5	+0.3	+0.3	+6.1	+0.8	+0.0	45.0	60.0	-15.0	White
28	17.589M	36.9	+0.3	+0.4	+6.1	+0.9	+0.0	44.6	60.0	-15.4	White
29	17.454M	36.6	+0.3	+0.4	+6.1	+0.9	+0.0	44.3	60.0	-15.7	White
30	1.264M	37.4	+0.2	+0.1	+6.1	+0.1	+0.0	43.9	60.0	-16.1	White

CKC Laboratories, Inc. Date: 12/31/2008 Time: 4:28:41 PM Myricom, Inc. WFO#: 88959
 CISPR22 (1997) Conducted Class A AVG Test Lead: White 110V 60Hz Sequence#: 5
 Myricom, Inc.



— Sweep Data
 — 1 - CISPR22 (1997) Conducted Class A AVG
 — 2 - CISPR22 (1997) Conducted Class A QP

RADIATED EMISSIONS

Test Setup Photos



Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **EN55022 (2006) Class A RADIATED**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Maximized Emissions** Time: 12:02:57
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 1
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Quasi Peak Adapter	2043A00231	03/20/2008	03/20/2010	00090
Spectrum Analyzer Display	2403A07316	03/20/2008	03/20/2010	00043
Spectrum Analyzer RF	2415A00481	03/20/2008	03/20/2010	00042
10m Position Cable	Cable #17	09/22/2008	09/22/2010	P04382
Preamplifier Cable	Cable #22	08/19/2008	08/19/2010	P05555
Preamplifier	2727A05392	04/29/2008	04/29/2010	00010
Antenna Cable	Cable #9	01/09/2008	01/09/2010	P01911
Bilog Antenna	2629	01/21/2008	01/21/2010	00851
Antenna Cable	Cable #33	02/02/2007	02/22/2009	P05569

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Voltage to the host computer is 235Vac 50Hz. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa.

Transducer Legend:

T1=Preamplifier ANP00010 042910	T2=ANT-AN00851 BILOG
T3=84' Heliac Cable P04382_#17	T4=Cable_P05555_SA to pre-amp
T5=Cable #9 P01911 41ft RG214 010910	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	132.953M	57.2	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	34.2	40.0	-5.8	Vert
2	132.781M	57.0	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	34.0	40.0	-6.0	Horiz
3	30.310M	52.0	-27.5 +0.6	+18.1	+0.6	+0.1	-10.0	33.9	40.0	-6.1	Vert
4	31.090M	52.4	-27.5 +0.6	+17.7	+0.6	+0.1	-10.0	33.9	40.0	-6.1	Vert
5	132.756M	56.8	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	33.8	40.0	-6.2	Horiz
6	132.981M	56.5	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	33.5	40.0	-6.5	Horiz
7	133.079M	56.4	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	33.4	40.0	-6.6	Horiz
8	34.500M	52.7	-27.4 +0.6	+16.4	+0.6	+0.1	-10.0	33.0	40.0	-7.0	Vert
9	132.741M	55.4	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	32.4	40.0	-7.6	Vert
10	40.560M	54.9	-27.3 +0.7	+13.1	+0.7	+0.1	-10.0	32.2	40.0	-7.8	Vert
11	46.810M	58.0	-27.4 +0.7	+9.8	+0.7	+0.1	-10.0	31.9	40.0	-8.1	Vert
12	76.540M	59.2	-27.2 +0.8	+7.0	+0.9	+0.2	-10.0	30.9	40.0	-9.1	Vert
13	57.770M	59.2	-27.4 +0.7	+7.3	+0.9	+0.1	-10.0	30.8	40.0	-9.2	Vert
14	68.450M	59.3	-27.3 +0.8	+6.4	+0.9	+0.2	-10.0	30.3	40.0	-9.7	Vert
15	61.530M	58.3	-27.4 +0.8	+6.9	+0.9	+0.2	-10.0	29.7	40.0	-10.3	Vert
16	49.770M	56.8	-27.4 +0.7	+8.5	+0.7	+0.1	-10.0	29.4	40.0	-10.6	Vert
17	96.360M	53.9	-27.2 +1.0	+9.4	+1.0	+0.2	-10.0	28.3	40.0	-11.7	Vert
18	91.160M	54.4	-27.3 +0.9	+8.8	+1.0	+0.2	-10.0	28.0	40.0	-12.0	Vert
19	76.220M	55.8	-27.2 +0.8	+7.0	+0.9	+0.2	-10.0	27.5	40.0	-12.5	Vert
20	105.310M	51.9	-27.2 +1.0	+10.3	+1.0	+0.2	-10.0	27.2	40.0	-12.8	Vert
21	100.800M	52.0	-27.2 +1.0	+10.0	+1.0	+0.2	-10.0	27.0	40.0	-13.0	Vert

22	87.340M	53.7	-27.3 +0.9	+8.3	+1.0	+0.2	-10.0	26.8	40.0	-13.2	Vert
23	113.120M	49.8	-27.1 +1.0	+10.9	+1.1	+0.2	-10.0	25.9	40.0	-14.1	Vert
24	624.995M	45.2	-28.1 +2.7	+19.9	+2.7	+0.4	-10.0	32.8	47.0	-14.2	Horiz
25	99.090M	50.4	-27.2 +1.0	+9.8	+1.0	+0.2	-10.0	25.2	40.0	-14.8	Vert
26	108.861M	49.4	-27.2 +1.0	+10.6	+1.1	+0.2	-10.0	25.1	40.0	-14.9	Vert
27	102.930M	49.6	-27.2 +1.0	+10.1	+1.0	+0.2	-10.0	24.7	40.0	-15.3	Vert
28	199.065M	48.8	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	24.1	40.0	-15.9	Horiz
29	199.619M	48.7	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	24.0	40.0	-16.0	Horiz
30	198.944M	48.5	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	23.8	40.0	-16.2	Vert
31	199.407M	48.1	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	23.4	40.0	-16.6	Horiz
32	198.901M	47.9	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	23.2	40.0	-16.8	Horiz
33	624.996M	42.6	-28.1 +2.7	+19.9	+2.7	+0.4	-10.0	30.2	47.0	-16.8	Vert
34	393.800M	45.5	-27.4 +2.0	+15.6	+2.1	+0.3	-10.0	28.1	47.0	-18.9	Vert
35	200.750M	44.5	-26.7 +1.4	+8.9	+1.5	+0.3	-10.0	19.9	40.0	-20.1	Vert
36	393.760M	44.0	-27.4 +2.0	+15.6	+2.1	+0.3	-10.0	26.6	47.0	-20.4	Horiz
37	200.090M	44.1	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	19.4	40.0	-20.6	Vert
38	407.100M	42.5	-27.4 +2.0	+15.9	+2.1	+0.3	-10.0	25.4	47.0	-21.6	Vert
39	90.140M	44.8	-27.3 +0.9	+8.6	+1.0	+0.2	-10.0	18.2	40.0	-21.8	Horiz

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **CISPR 22 (1997) class A RADIATED**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Maximized Emissions** Time: 12:02:57
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 1
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Quasi Peak Adapter	2043A00231	03/20/2008	03/20/2010	00090
Spectrum Analyzer Display	2403A07316	03/20/2008	03/20/2010	00043
Spectrum Analyzer RF	2415A00481	03/20/2008	03/20/2010	00042
10m Position Cable	Cable #17	09/22/2008	09/22/2010	P04382
Preamplifier Cable	Cable #22	08/19/2008	08/19/2010	P05555
Preamplifier	2727A05392	04/29/2008	04/29/2010	00010
Antenna Cable	Cable #9	01/09/2008	01/09/2010	P01911
Bilog Antenna	2629	01/21/2008	01/21/2010	00851
Antenna Cable	Cable #33	02/02/2007	02/22/2009	P05569

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Voltage to the host computer is 110Vac 60Hz. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa.

Transducer Legend:

T1=Preamplifier ANP00010 042910	T2=ANT-AN00851 BILOG
T3=84' Heliac Cable P04382_#17	T4=Cable_P05555_SA to pre-amp
T5=Cable #9 P01911 41ft RG214 010910	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	132.953M	57.2	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	34.2	40.0	-5.8	Vert
2	132.781M	57.0	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	34.0	40.0	-6.0	Horiz
3	30.310M	52.0	-27.5 +0.6	+18.1	+0.6	+0.1	-10.0	33.9	40.0	-6.1	Vert
4	31.090M	52.4	-27.5 +0.6	+17.7	+0.6	+0.1	-10.0	33.9	40.0	-6.1	Vert
5	132.756M	56.8	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	33.8	40.0	-6.2	Horiz
6	132.981M	56.5	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	33.5	40.0	-6.5	Horiz
7	133.079M	56.4	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	33.4	40.0	-6.6	Horiz
8	34.500M	52.7	-27.4 +0.6	+16.4	+0.6	+0.1	-10.0	33.0	40.0	-7.0	Vert
9	132.741M	55.4	-27.1 +1.1	+11.5	+1.2	+0.3	-10.0	32.4	40.0	-7.6	Vert
10	40.560M	54.9	-27.3 +0.7	+13.1	+0.7	+0.1	-10.0	32.2	40.0	-7.8	Vert
11	46.810M	58.0	-27.4 +0.7	+9.8	+0.7	+0.1	-10.0	31.9	40.0	-8.1	Vert
12	76.540M	59.2	-27.2 +0.8	+7.0	+0.9	+0.2	-10.0	30.9	40.0	-9.1	Vert
13	57.770M	59.2	-27.4 +0.7	+7.3	+0.9	+0.1	-10.0	30.8	40.0	-9.2	Vert
14	68.450M	59.3	-27.3 +0.8	+6.4	+0.9	+0.2	-10.0	30.3	40.0	-9.7	Vert
15	61.530M	58.3	-27.4 +0.8	+6.9	+0.9	+0.2	-10.0	29.7	40.0	-10.3	Vert
16	49.770M	56.8	-27.4 +0.7	+8.5	+0.7	+0.1	-10.0	29.4	40.0	-10.6	Vert
17	96.360M	53.9	-27.2 +1.0	+9.4	+1.0	+0.2	-10.0	28.3	40.0	-11.7	Vert
18	91.160M	54.4	-27.3 +0.9	+8.8	+1.0	+0.2	-10.0	28.0	40.0	-12.0	Vert
19	76.220M	55.8	-27.2 +0.8	+7.0	+0.9	+0.2	-10.0	27.5	40.0	-12.5	Vert
20	105.310M	51.9	-27.2 +1.0	+10.3	+1.0	+0.2	-10.0	27.2	40.0	-12.8	Vert
21	100.800M	52.0	-27.2 +1.0	+10.0	+1.0	+0.2	-10.0	27.0	40.0	-13.0	Vert

22	87.340M	53.7	-27.3 +0.9	+8.3	+1.0	+0.2	-10.0	26.8	40.0	-13.2	Vert
23	113.120M	49.8	-27.1 +1.0	+10.9	+1.1	+0.2	-10.0	25.9	40.0	-14.1	Vert
24	624.995M	45.2	-28.1 +2.7	+19.9	+2.7	+0.4	-10.0	32.8	47.0	-14.2	Horiz
25	99.090M	50.4	-27.2 +1.0	+9.8	+1.0	+0.2	-10.0	25.2	40.0	-14.8	Vert
26	108.861M	49.4	-27.2 +1.0	+10.6	+1.1	+0.2	-10.0	25.1	40.0	-14.9	Vert
27	102.930M	49.6	-27.2 +1.0	+10.1	+1.0	+0.2	-10.0	24.7	40.0	-15.3	Vert
28	199.065M	48.8	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	24.1	40.0	-15.9	Horiz
29	199.619M	48.7	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	24.0	40.0	-16.0	Horiz
30	198.944M	48.5	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	23.8	40.0	-16.2	Vert
31	199.407M	48.1	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	23.4	40.0	-16.6	Horiz
32	198.901M	47.9	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	23.2	40.0	-16.8	Horiz
33	624.996M	42.6	-28.1 +2.7	+19.9	+2.7	+0.4	-10.0	30.2	47.0	-16.8	Vert
34	393.800M	45.5	-27.4 +2.0	+15.6	+2.1	+0.3	-10.0	28.1	47.0	-18.9	Vert
35	200.750M	44.5	-26.7 +1.4	+8.9	+1.5	+0.3	-10.0	19.9	40.0	-20.1	Vert
36	393.760M	44.0	-27.4 +2.0	+15.6	+2.1	+0.3	-10.0	26.6	47.0	-20.4	Horiz
37	200.090M	44.1	-26.7 +1.4	+8.8	+1.5	+0.3	-10.0	19.4	40.0	-20.6	Vert
38	407.100M	42.5	-27.4 +2.0	+15.9	+2.1	+0.3	-10.0	25.4	47.0	-21.6	Vert
39	90.140M	44.8	-27.3 +0.9	+8.6	+1.0	+0.2	-10.0	18.2	40.0	-21.8	Horiz

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **FCC 15.109 (2007) Class A**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Maximized Emissions** Time: 14:48:44
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 2
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
10m Position Cable	Cable #17	09/22/2008	09/22/2010	P04382
Antenna Cable	L1-PNMMN-48	10/13/2008	10/13/2010	P05563
Horn Antenna	9603-4683	06/06/2008	06/06/2010	01646
40GHz cable		09/18/2007	09/18/2009	02947
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Preamp	00323	02/05/2008	02/05/2010	02810

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Voltage to the host computer is 110Vac 60Hz. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa. Frequency range scanned and maximized, 1-18GHz.

Transducer Legend:

T1=Horn Ant AN01646 060610	T2=CAB-ANP02947 091807
T3=84' Heliac Cable P04382	T4=48' Heliac Cable 101310 P05563
T5=AMP-AN02810-020508	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	6249.804M	30.7	+34.2 -25.6	+0.5	+9.7	+5.6	-10.0	45.1	49.5	-4.4	Horiz
2	5000.312M	32.8	+33.6 -26.2	+0.5	+8.7	+4.9	-10.0	44.3	49.5	-5.2	Horiz

3	5000.400M	31.2	+33.6 -26.2	+0.5	+8.7	+4.9	-10.0	42.7	49.5	-6.8	Vert
4	1599.300M	48.2	+25.5 -28.5	+0.2	+4.5	+2.6	-10.0	42.5	49.5	-7.0	Vert
5	3000.204M	35.2	+30.2 -25.2	+0.4	+6.6	+3.7	-10.0	40.9	49.5	-8.6	Horiz
6	2500.004M	37.2	+28.2 -26.1	+0.3	+5.9	+3.3	-10.0	38.8	49.5	-10.7	Horiz
7	2812.471M	34.3	+29.5 -25.4	+0.3	+6.5	+3.5	-10.0	38.7	49.5	-10.8	Horiz
8	3945.200M	31.0	+31.5 -26.5	+0.4	+7.5	+4.2	-10.0	38.1	49.5	-11.4	Horiz
9	2552.134M	35.2	+28.4 -26.0	+0.3	+6.1	+3.4	-10.0	37.4	49.5	-12.1	Horiz
10	2812.000M	33.0	+29.5 -25.4	+0.3	+6.5	+3.5	-10.0	37.4	49.5	-12.1	Vert
11	2500.367M	35.0	+28.2 -26.1	+0.3	+5.9	+3.3	-10.0	36.6	49.5	-12.9	Vert
12	1396.300M	43.0	+24.9 -28.3	+0.2	+4.2	+2.4	-10.0	36.4	49.5	-13.1	Vert
13	1461.700M	42.7	+24.9 -28.4	+0.2	+4.3	+2.4	-10.0	36.1	49.5	-13.4	Vert
14	1398.413M	41.5	+24.9 -28.3	+0.2	+4.2	+2.4	-10.0	34.9	49.5	-14.6	Horiz
15	1500.000M	41.4	+25.0 -28.5	+0.2	+4.4	+2.4	-10.0	34.9	49.5	-14.6	Vert
16	1500.217M	41.3	+25.0 -28.5	+0.2	+4.4	+2.4	-10.0	34.8	49.5	-14.7	Horiz
17	6250.204M Ave	19.7	+34.2 -25.6	+0.5	+9.7	+5.6	-10.0	34.1	49.5	-15.4	Vert
^	6250.204M	32.5	+34.2 -25.6	+0.5	+9.7	+5.6	-10.0	46.9	49.5	-2.6	Vert
19	1462.117M	39.9	+24.9 -28.4	+0.2	+4.3	+2.4	-10.0	33.3	49.5	-16.2	Horiz
20	5113.000M	21.0	+33.7 -26.2	+0.5	+8.7	+4.9	-10.0	32.6	49.5	-16.9	Vert
21	1599.567M Ave	34.2	+25.5 -28.5	+0.2	+4.5	+2.6	-10.0	28.5	49.5	-21.0	Horiz
^	1599.570M	52.6	+25.5 -28.5	+0.2	+4.5	+2.6	-10.0	46.9	49.5	-2.6	Horiz

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Myricom, Inc.**
 Specification: **FCC 15.109 (2007) Class A**
 Work Order #: **88959** Date: 12/31/2008
 Test Type: **Maximized Emissions** Time: 14:48:44
 Equipment: **10 Gigabit PCI Express add-in card** Sequence#: 3
 Manufacturer: Myricom, Inc. Tested By: S. Yamamoto
 Model: see list below
 S/N: see list below

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
40GHz cable		09/18/2007	09/18/2009	02947
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Preamplifier	00323	02/05/2008	02/05/2010	02810
26.5 to 40GHz Horn Antenna	951559-008	11/13/2008	11/13/2010	01414
18 to 26.5 GHz Horn Antenna	942126-003	11/13/2008	11/13/2010	01413

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-2S	353788
10 Gigabit PCI Express add-in card	Myricom, Inc.	10G-PCIE-8BL-QP	354263

Support Devices:

Function	Manufacturer	Model #	S/N
Monitor	MPC	TFT1780PS	F1775iS004089
Printer	Epson	P950A	A5PY416008
USB Gamepad	Microsoft Corporation	X04-63237	6323700759385
PS/2 Keyboard	Compaq Corporation	160648-101	31646576
PS/2 Mouse	Microsoft Corporation	93633	1734893-50000
Desktop Computer	Minuet	Minuet 8	

Test Conditions / Notes:

The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, PS/2 keyboard, printer, and USB gamepad. Voltage to the host computer is 110Vac 60Hz. Temperature: 17°C, Humidity: 39%, Pressure: 100kPa. Frequency range scanned and maximized, 18-40GHz.

Transducer Legend:

T1=CAB-ANP02947 091807	T2=AMP-AN02810-020508
T3=Horn AN01413 18-26	T4=Horn HP26-40 AN#1414

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	20624.850 M	35.1	+1.1	-26.1	+39.6	+0.0	-20.0	29.7	49.5	-19.8	Horiz
	Ave										
^	20624.850 M	46.1	+1.1	-26.1	+39.6	+0.0	-20.0	40.7	49.5	-8.8	Horiz
3	18749.860 M	34.4	+1.0	-26.5	+39.8	+0.0	-20.0	28.7	49.5	-20.8	Horiz
4	20624.850 M	34.0	+1.1	-26.1	+39.6	+0.0	-20.0	28.6	49.5	-20.9	Vert
	Ave										
^	20624.850 M	43.8	+1.1	-26.1	+39.6	+0.0	-20.0	38.4	49.5	-11.1	Vert
6	18749.860 M	32.3	+1.0	-26.5	+39.8	+0.0	-20.0	26.6	49.5	-22.9	Vert
7	30937.270 M	27.8	+1.3	-28.0	+0.0	+42.8	-20.0	23.9	49.5	-25.6	Horiz
8	30937.270 M	24.5	+1.3	-28.0	+0.0	+42.8	-20.0	20.6	49.5	-28.9	Vert

REPORT OF IMMUNITY MEASUREMENTS

EUT Setup: The equipment under test (EUT) are LAN interface cards (PCI Express add-in cards). The two EUT's are installed inside the host computer. The outputs of the EUTs are connected in loopback. The host computer is running software to exercise both EUTs simultaneously and continuously. Also connected to the host computer are a monitor, PS/2 mouse, and PS/2 keyboard.

EUT Monitoring: The EUT's are being monitored by watching the computer display. The display is showing if any errors occurred in either of the two EUT's (card 0 and card 1).

ELECTROSTATIC DISCHARGE

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
ESD Simulator	00629	KeyTek	MZ-15/EC	9407571	121808	121810

Test Setup Photos





EN61000-4-2 ESD (Direct Discharge) in accordance with EN55024

Tested By: Stuart Yamamoto

Location of discharge	Type of discharge	Test Level	Pass / Fail / NA	Performance Criterion
Front	HCP	4kV	Pass	B
Right	HCP	4kV	Pass	B
Back	HCP	4kV	Pass	B
Left	HCP	4kV	Pass	B
Front	VCP	4kV	Pass	B
Right	VCP	4kV	Pass	B
Back	VCP	4kV	Pass	B
Left	VCP	4kV	Pass	B
Front	Contact	4kV	Pass	B
Right	Contact	4kV	Pass	B
Back	Contact	4kV	Pass	B
Left	Contact	4kV	Pass	B
Front	Air	8kV	Pass	B
Back	Air	8kV	Pass	B
Left	Air	8kV	Pass	B
Right	Air	8kV	Pass	B
Top	Air	8kV	Pass	B

HCP=Horizontal Coupling Plane VCP=Vertical Coupling Plane

Temperature: 22 °C

Relative Humidity: 45 %

Atmospheric Pressure: 100 kPa

Performance Criteria: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed after the application of the phenomena below a performance level specified by the manufacturer when the equipment is used as intended. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.

RADIATED IMMUNITY

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
BiLog Antenna	01370	EMCO	3143	9409-1047	NCR	NCR
Amplifier	00627	AR	50W1000A	14335	010407	010409
Directional Coupler	01612	Werlatone	C2630	5156	011108	011110
Spectrum Analyzer RF Section	02462	HP	8568B	2928A04874	091608	091610
Spectrum Analyzer Display Section	02472	HP	85662A	3001A18430	091608	091610
QP Adapter	01437	HP	85650A	3303A01884	091608	091610
Signal Generator	02227	Marconi	2024	112282/515	081807	081809
Field Monitor	00636	AR	FM2000	14294	080807	080809
Field Probe	00638	AR	FP2000	14318	061507	061509
Cable	P04270	Andrew	Hardline	Cable#3	NCR	NCR
Cable	P04286	Andrew	Hardline	Cable#4	NCR	NCR
Anechoic Chamber	02710	LM	N/A	N/A	011707	011709

NCR = No Cal Required

Test Setup Photos



EN61000-4-3 Radiated Immunity in accordance with EN55024

Tested By: Stuart Yamamoto

Frequency Range MHz	Test Distance	Front V/H	Back V/H	Left Side V/H	Right Side V/H	Performance Criterion
80-1000	1.5m	Pass	Pass	Pass	Pass	A

V=Vertical H=Horizontal Test Level: 3 V/m, 80% 1 kHz Amplitude Modulated (AM)

Note: The field strength at the required 40 cm height was 3.3 V/m.

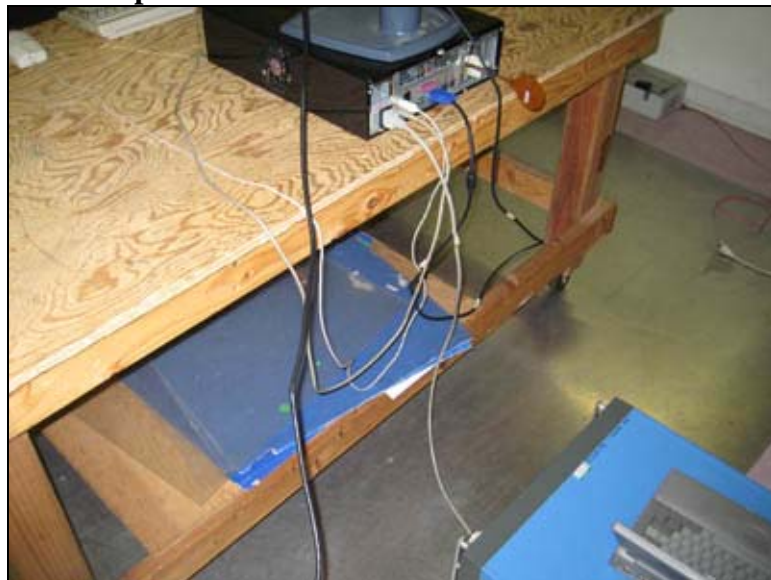
Performance Criteria: The equipment shall continue to operate as intended without operator intervention. No degradation or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

ELECTRICAL FAST TRANSIENT BURST

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
EFT Generator	01495	Velonex	V-3300A-1	16922	011307	011309
Capacitive Coupling Clamp	01692	Velonex	V-3334	16701	011307	011309

Test Setup Photos



EN61000-4-4 EFTB (Power Cable) in accordance with EN55024

Tested By: Stuart Yamamoto

EFTB insertion point	+ 1 kV pass / fail	- 1 kV pass / fail	Performance Criterion
Line to Ground	Pass	Pass	B
Neutral to Ground	Pass	Pass	B
Protective Earth to Ground	Pass	Pass	B
Line/Neutral/Protective Earth to Ground.	Pass	Pass	B

Notes: AC to host computer.

EN61000-4-4 EFTB (I/O Cables) in accordance with EN55024

Cable tested	+ .5 kV pass / fail	- .5 kV pass / fail	Performance Criterion
Signal Lines	NA	NA	NA
DC Power	NA	NA	NA

NA=Not Applicable because the EUT has no input DC power cables and all I/O cables are fiber optic.

Temperature: 22 °C

Relative Humidity: 45 %

Atmospheric Pressure: 100 kPa

Performance Criteria: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed after the application of the phenomena below a performance level specified by the manufacturer when the equipment is used as intended. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.

SURGE

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Surge Generator	02179	KeyTek	EMCPro	9901255	040607	040609

Test Setup Photos



EN61000-4-5 Surge (Power Mains) in accordance with EN55024

Tested By: Stuart Yamamoto

Voltage level kV	Insertion points	0 degrees input +voltage-	90 degrees input +voltage-	180 degrees input +voltage-	270 degrees input +voltage-	Performance Criterion Met
		pass / fail	pass / fail	pass / fail	pass / fail	
1	Line-Neutral	Pass	Pass	Pass	Pass	B
2	Line-Ground	Pass	Pass	Pass	Pass	B
2	Neutral-Ground	Pass	Pass	Pass	Pass	B

Notes: AC to host computer.

EN61000-4-5 Surge (I/O Cables) in accordance with EN55024

Voltage level kV	Cable	pass / fail +	pass / fail -	Performance Criterion Met
0.5	DC Power Lines	NA	NA	NA
0.5	Signal Line	NA	NA	NA

NA=Not Applicable because the EUT has no input DC power cables and all I/O cables are fiber optic.

Temperature: 22 °C
 Relative Humidity: 45 %
 Atmospheric Pressure: 100 kPa

Performance Criteria: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed after the application of the phenomena below a performance level specified by the manufacturer when the equipment is used as intended. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.

CONDUCTED IMMUNITY

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Coupling Decoupling Network	02041	FCC	FCC-801-M3-25	51	041207	041209
Amplifier	00628	AR	100A100	14328	012307	012309
Directional Coupler	01612	Werlatone	C2630	5156	011108	011110
Spectrum Analyzer RF Section	02462	HP	8568B	2928A04874	091608	091610
Spectrum Analyzer Display Section	02472	HP	85662A	3001A18430	091608	091610
QP Adapter	01437	HP	85650A	3303A01884	091608	091610
Signal Generator	02227	Marconi	2024	112282/515	081807	081809
Coaxial Cable	P04357	Carolina Wire	RG142	Cable 16	072808	072810
Injection Probe	01647	Fischer	F-120-1	62	010707	010709
Current Probe	00296	Solar	6741-1	8020-9	052207	052209

Test Setup Photos



EN61000-4-6 Conducted Immunity in accordance with EN55024

Tested By: Stuart Yamamoto

Cable Tested	Frequency Range	Pass/fail	Performance Criterion
AC Power Line	.15-80MHz	Pass	A
Signal Line	.15-80MHz	NA	NA

Modulated with a 1 kHz AM sine wave at 80%, 3 Vrms. NA=Not Applicable because all I/O cables are fiber optic.

Performance Criteria: The equipment shall continue to operate as intended without operator intervention. No degradation or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

MAGNETIC IMMUNITY

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
AC Power Source	01695/ 01696	Pacific Power Source	345AMXT/ UPC32	250/ 245	051507	051509
Magnetic Loop	P05007	CKC	10 TURNS	001	060507	060509

Test Setup Photos



EN61000-4-8 Magnetic Immunity in accordance with EN55024

Tested By: Stuart Yamamoto

Amplitude	X-Axis	Y-Axis	Z-Axis	Performance Criterion
1 A/m	Pass	Pass	Pass	A

Performance Criteria: The equipment shall continue to operate as intended without operator intervention. No degradation or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

VOLTAGE DIPS AND INTERRUPTS

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Programmable Power Source	01695/ 01696	Pacific Power	345AMXT/ UPC32	250/245	051507	051509

Test Setup Photos



EN61000-4-11 Voltage Dips & Interrupts in accordance with EN55024

Tested By: Stuart Yamamoto

% reduction	Duration	Pass/fail	Performance Criterion	Notes
>95	0.5 period (10ms)	Pass	A	3 interrupts with 10 sec between each
30	25 periods (500ms)	Pass	A	3 interrupts with 10 sec between each
>95	250 periods (5 sec)	Pass	C	3 interrupts with 10 sec between each

Performance Criteria A: The equipment shall continue to operate as intended without operator intervention. No degradation or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Performance Criteria C Loss of function is allowed, providing the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in volatile memory, or protected by battery backup, shall not be lost.

APPENDIX A

CUSTOMER PROVIDED INFORMATION

INFORMATION ABOUT THE EQUIPMENT UNDER TEST	
Test Software/Firmware:	along
CRT was displaying:	Packet and error counts
Power Supply Manufacturer:	NA
Power Supply Part Number:	NA
AC Line Filter Manufacturer:	NA
AC Line Filter Part Number:	NA

I/O PORTS	
Type	#
LC (fiber, on 8B-2S)	2
QSFP (fiber, on 8B-QP)	1

CRYSTAL OSCILLATORS	
Type	Freq In MHz
1 (per NIC)	156.25