

EXHIBIT D
CKC TEST REPORT



CERTIFICATION TEST REPORT

FOR THE

KEYBOARD, RT28XXXXX

FCC/CISPR 22/85

CLASS B COMPLIANCE

DATE OF ISSUE: MARCH 20, 1998

PREPARED FOR:

NMB Technologies Inc.
9730 Independence Avenue
Chatsworth, CA 91311

P.O. No: Q008266

W.O. No: 68546

Report No: **FB98-051**

Date of test: March 14, 1998

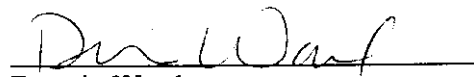
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ADMINISTRATIVE INFORMATION

DATE OF TEST: March 14, 1998

PURPOSE OF TEST: To demonstrate the compliance of the Keyboard, RT28XXXXX, with the requirements for FCC/CISPR 22/85 Class B devices.

MANUFACTURER: NMB Technologies Inc.
9730 Independence Avenue
Chatsworth, CA 91311

REPRESENTATIVE: John Guo

TEST LOCATION: CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92621

TEST PERSONNEL: Septimiu Apahidean

TEST METHOD: ANSI C63.4 1992

FREQUENCY RANGE TESTED: 150kHz - 1000MHz

EQUIPMENT UNDER TEST: Keyboard
Manuf: NMB Technologies, Inc
Model: Multi-Function
Serial:

SUMMARY OF RESULTS

The NMB Technologies Inc. Keyboard, RT28XXXXX was tested in accordance with ANSI C63.4 (1992) for compliance with the Class B requirements of the FCC/CISPR 22/85 Rules.

As received, the above equipment was found to be fully compliant with the Class B limits of FCC/CISPR 22/85 for both radiated and conducted emissions.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The RT28XXXXX Keyboard.

MEASUREMENT UNCERTAINTY

Associated with data in this report is a ± 4 dB measurement uncertainty.

PERIPHERAL DEVICES

The EUT was tested with the following peripheral devices:

Computer

Manuf: Intel
Model: S100EDZ8FLC
Serial: A05721230
FCC ID: EJMBATTAHITI

Modem

Manuf: Hayes
Model: 6802US
Serial: B10068023649
FCC ID: BFJ9D9 6802US

Modem

Manuf: Hayes
Model: 6802US
Serial: A00768023303
FCC ID: BFJ9D9 6802US

Mouse

Manuf: Logitech
Model: M-CQ38
Serial: LT554205822
FCC ID: DZLM04

Monitor

Manuf: HP
Model: D2806B
Serial: KR54366896
FCC ID: CSYSC-528UXH

Printer

Manuf: HP
Model: C2184A
Serial: CN5B21R1DM
FCC ID: B94C2184X

REPORT OF MEASUREMENTS

The following Tables 1 and 2 report the six highest radiated and conducted emissions levels recorded during the tests performed on the Keyboard, RT28XXXXX. The data sheets from which these tables were compiled are contained in Appendix B.

Table 1: Six Highest Radiated Emission Levels

FREQUENCY MHz	METER READING dB μ V	CORRECTION FACTORS				CORRECTED READING dB μ V/m	SPEC LIMIT dB μ V/m	MARGIN dB	NOTES
		Ant dB	Amp dB	Cable dB	Dist dB				
58.672	41.8	8.5	-28.2	1.2		23.3	30.0	-6.7	V
83.889	40.6	8.2	-28.0	1.5		22.3	30.0	-7.7	V
104.758	35.5	12.8	-28.1	1.8		22.0	30.0	-8.0	V
180.001	31.2	17.3	-28.1	2.5		22.9	30.0	-7.1	V
186.003	31.9	17.1	-28.1	2.6		23.5	30.0	-6.5	V
192.007	32.5	16.9	-28.0	2.6		24.0	30.0	-6.0	V

Test Method: ANSI C63.4 1992
Spec Limit : CISPR 22 Class B
Test Distance: 10 Meters

NOTES: H = Horizontal Polarization
V = Vertical Polarization
N = No Polarization
D = Dipole Reading
Q = Quasi Peak Reading
A = Average Reading

COMMENTS: The EUT is a keyboard and is connected to the host computer. The computer also has a monitor, mouse, printer, and two modems connected. The EUT is continually sending H's which is being displayed on the monitor. Voltage to computer is 120 VAC 60 Hz.
Temperature: 16°C Humidity: 50%

Table 2: Six Highest Conducted Emission Levels

FREQUENCY MHz	METER READING dB μ V	CORRECTION FACTORS				CORRECTED READING dB μ V	SPEC LIMIT dB μ V	MARGIN dB	NOTES
		Lisn dB							
0.150319	47.2	0.0				47.2	56.0	-8.8	W
0.206155	45.5	0.0				45.5	53.4	-7.9	W
0.407422	35.8	0.0				35.8	47.7	-11.9	W
0.484415	37.0	0.0				37.0	46.3	-9.3	W
0.640785	39.1	0.0				39.1	46.0	-6.9	W
3.098160	34.3	0.0				34.3	46.0	-11.7	B

Test Method: ANSI C63.4 1992
 Spec Limit : CISPR 22 Class B
 Test Distance: No Distance

NOTES: Q = Quasi Peak Reading
 A = Average Reading
 B = Black Lead
 W = White Lead

COMMENTS: The EUT is a keyboard and is connected to the host computer. The computer also has a monitor, mouse, printer, and two modems connected. The EUT is continually sending H's which is being displayed on the monitor. Voltage to computer is 120 VAC 60 Hz.
 Temperature: 16°C Humidity: 50%

TABLE A

LIST OF TEST EQUIPMENT

Brea VCCI Acceptance No. R-301 & C-314

1. Spectrum Analyzer, Hewlett Packard, Model No. 8568A, S/N 2049A01287. Display 85680A S/N 2106A02109.
2. Preamp, Hewlett Packard, Model No. 8447D, S/N 1937A02548.
3. Quasi-Peak Adapter, Hewlett Packard, Model No. 85650A, S/N - 2030A00532.
4. Biconical Antenna, A & H Systems, Model No. SAS-200/540, S/N 220.
5. Log Periodic Antenna, A & H Systems, Model No. SAS-200/516, S/N 331.
6. Horn Antenna, Emco, Model No. 3115, S/N 4683.
7. Magnetic Loop Antenna, Electro Metrics, Model No. ALR-25M, S/N 536.
8. LISN, Solar Electronics, Model No. 8028-50-TS-24-BNC, S/N Brea #1.
9. LISN, Solar Electronics, Model No. 50 uH, S/N Brea #2.
10. Brea site calibration date: May 8, 1997. Brea site calibration due date: May 8, 1998.
11. Test software, EMI Test 2.86.

EUT SETUP

The equipment under test (EUT) and the peripherals listed were setup in a manner that represented their normal use, as shown in the setup photographs in Appendix A. Any special conditions required for the EUT to operate normally are identified in the comments that accompany Table 1 for radiated emissions, and Table 2 for conducted emissions. Additionally, a complete description of all the ports and I/O cables is included on the information sheets contained in Appendix A.

During radiated emissions testing, the EUT was mounted on a nonconductive, rotating table 1 meter above the conductive grid. The nonconductive table dimensions were 1 meter by 1.5 meters. This configuration is typical for radiated emissions testing of table top devices.

I/O cables were connected to the EUT and peripherals in the manner required for normal operation of the system. Excess cabling was bundled in the center in a serpentine fashion using 10-40 centimeter lengths.

During conducted emissions testing, the EUT was located 80 centimeters above the conducting ground plane on the same nonconducting table as was used for radiated testing. The metal plane was grounded to the earth through the green wire safety ground. Power to the host PC was provided via 3 meters of shielded power cable from a filter grounded to the metal plane to a LISN. The LISN was also grounded to the plane and attached to the LISN was a 4 ganged grounded outlet whose source was also shielded and 60 cm in length. All other objects were kept a minimum of 1 meter away from the EUT during the conducted test.

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed in Table A were used to collect both the radiated and conducted emissions data for the Keyboard, RT28XXXXX. For radiated measurements below 300 MHz, the biconical antenna was used. For frequencies from 300 to 1000 MHz, the log periodic antenna was used. All antennas were located at a distance of 10 meters from the edge of the EUT. Conducted emissions tests required the use of the FCC type LISN's.

The HP spectrum analyzer was used for all measurements. Table B shows the analyzer bandwidth settings that were used in designated frequency bands. For conducted emissions, a reference level of 100 dB μ V and a vertical scale size of 10 dB per division were used. A 10 dB external attenuator was also used during conducted tests, with internal offset correction in the analyzer. During radiated testing, the measurements were made with 0 dB of attenuation, a reference level of 97 dB μ V, and a vertical scale of 10 dB per division.

TABLE B : ANALYZER 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

SPECTRUM ANALYZER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in Tables 1 and 2 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 six highest readings, this is indicated as a "Q" or an "A" in Table 1 or Table 2. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data for the Keyboard, RT28XXXXX.

Peak

In this mode, the Spectrum Analyzer or test engineer recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the analyzer called "peak hold," the analyzer had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the analyzer 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 HP 85650A Quasi-Peak Adapter for the HP 8568B Spectrum Analyzer. The detailed procedure for making quasi peak measurements contained in the HP Quasi-Peak Adapter manual were followed.

Average

When the frequencies exceed 1 GHz, average measurements may be made using the spectrum analyzer. To make these measurements, the test engineer reduces the video bandwidth on the analyzer until the modulation of the signal is filtered out. At this point the analyzer is set into the linear mode and the scan time is reduced.

TEST METHODS

The radiated and conducted emissions data of the Keyboard, RT28XXXXX, was taken with the HP Spectrum Analyzer. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the "Sample Calculations". The corrected data was then compared to the FCC/CISPR 22/85 Class B emissions limits to determine compliance.

Preliminary and final measurements were taken in order to better ensure that all emissions from the EUT were found and maximized.

Radiated Emissions Testing

During the preliminary radiated scan, the EUT was powered up and operating in its defined FCC test mode with the I/O cables and line cords facing the antenna. The frequency range of 30 MHz - 88 MHz was then scanned with the biconical antenna located about 1.5 meter above the ground plane in the vertical configuration. During this scan, the turntable was rotated and all peaks which were at or near the limit were recorded. The frequency range of 100 - 300 MHz was scanned in the same manner, using the biconical antenna, and the peaks recorded. Lastly, a scan of the FM band from 88 - 110 MHz was made, using a reduced resolution bandwidth and a reduced frequency span. The biconical antenna was changed to the horizontal polarity and the above steps were repeated. After changing to the log periodic antenna in the horizontal configuration, the frequency range of 300 - 1000 MHz was scanned. The log periodic antenna was changed to the vertical polarity and the frequency range of 300 - 1000 MHz was again scanned. Care was taken to ensure that no frequencies were missed within the FM and TV bands. An analysis was performed to determine if the signals that were at or near the limit were caused by an ambient transmission. If unable to determine by analysis, the equipment was powered down to make the final determination if the EUT was the source of the emission.

For the final radiated scan, the equipment was again positioned with its I/O and power cables facing the antenna. A thorough scan of all frequencies was manually made using a small frequency span, rotating the turntable as needed. Comparison with the previously recorded measurements was then made.

Using the peak readings from both scans as a guide, the test engineer then maximized the readings with respect to the table rotation, antenna height and configuration of the peripherals and cables. Maximizing of the cables was achieved by monitoring the spectrum analyzer on a closed circuit television monitor while the EUT cables were being moved and rearranged on the EUT table for maximum emissions. Photographs showing the final worst case configuration of the EUT are contained in Appendix A.

Conducted Emissions Testing

For conducted emissions testing, a 30 to 50 second sweep time was used for automated measurements in the frequency bands of 150 kHz to 1.705 MHz, 1.705 MHz to 3 MHz, and 3 MHz to 30 MHz. All readings within 20 dB of the limit were recorded. At frequencies where the recorded emissions were close to the limit, further investigation was performed manually at a slower sweep rate.

SAMPLE CALCULATIONS

The basic spectrum analyzer reading was converted using correction factors as shown in the six highest emissions readings in Tables 1 and 2. For radiated emissions in $\text{dB}\mu\text{V}/\text{m}$, the spectrum analyzer reading in $\text{dB}\mu\text{V}$ was corrected by using the following formula:

$$\begin{aligned} & \text{Meter reading (dB}\mu\text{V)} \\ & + \text{Antenna Factor (dB)} \\ & + \text{Cable Loss (dB)} \\ & - \text{Distance Correction (dB)} \\ & - \text{Pre-amplifier Gain (dB)} \\ & = \text{Corrected Reading (dB}\mu\text{V/m)} \end{aligned}$$

This reading was then compared to the applicable specification limit to determine compliance. For conducted emissions, no correction factors were needed when 50 μH LISN's were used.

APPENDIX A
INFORMATION ABOUT THE EQUIPMENT UNDER TEST

INFORMATION ABOUT THE EQUIPMENT UNDER TEST

Test Software/Firmware: CRT was displaying: Power Supply Manufacturer: Power Supply Part Number: AC Line Filter Manufacturer: AC Line Filter Part Number:	Not provided by customer at this time.
--	---

The host AC power cord is removable and is NOT shielded

Line voltage used during testing: 120V 60Hz

I/O PORTS

Type	#
Serial, Keyboard	1

CRYSTAL OSCILLATORS

Type	Freq In MHz
.	4 MHz

PRINTED CIRCUIT BOARDS

Function	Model & Rev	Clocks, MHz	Layers	Location
.	3058-3069 Rev A	4 MHz	1	Inside K/B

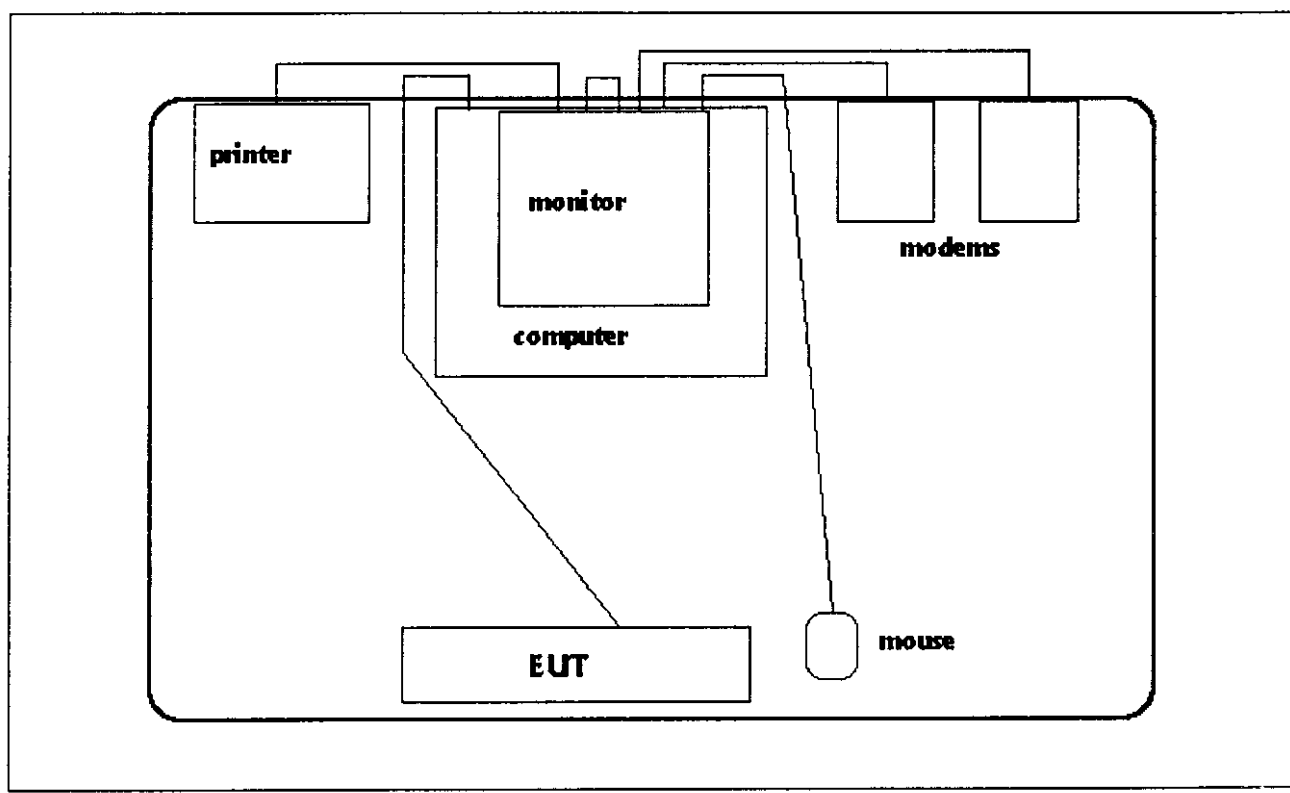
REQUIRED EUT CHANGES TO COMPLY:

none

CABLE INFORMATION

Cable #: 1		Cable(s) of this type: 1	
Cable Type:	Keyboard	Shield Type:	
Construction:		Length In Meters:	
Connected To End (1):	EUT	Connected To End (2):	Host PC
Connector At End (1):		Connector At End (2):	
Shield Grounded At (1):		Shield Grounded At (2):	
Part Number:		Number of Conductors:	
Notes:			

EQUIPMENT CONFIGURATION BLOCK DIAGRAM



NOTES:

APPENDIX B
MEASUREMENT DATA SHEETS

Test Location: CKC LABORATORIES INC • 110 N. OLINDA PL. • BREA, CA 92823 • 714-993-6112
 Customer: NMB Technologies Inc. Date: Mar-14-98
 Specification: CISPR 22 B RADIATED Time: 14:22
 Test Type: Maximized Emissions Sequence#: 1
 Equipment: Keyboard
 Manufacturer: NMB Technologies, Inc Tested By: Septimiu Apahidean
 Model: Multi-Function
 S/N:

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Keyboard*	NMB Technologies, Inc	Multi-Function	

Support Devices:

Function	Manufacturer	Model #	S/N
Computer	Intel	S100EDZ8FLC	A05721230
Modem	Hayes	6802US	B10068023649
Modem	Hayes	6802US	A00768023303
Mouse	Logitech	M-CQ38	LT554205822
Monitor	HP	D2806B	KR54366896
Printer	HP	C2184A	CN5B21R1DM

Test Conditions / Notes:

The EUT is a keyboard and is connected to the host computer. The computer also has a monitor, mouse, printer, and two modems connected. The EUT is continually sending H's which is being displayed on the monitor. Voltage to computer is 120 VAC 60 Hz. Temperature: 16°C Humidity: 50%

Measurement Data:

Sorted by Margin

Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	AMP CABLE BICON LOG				Dist dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar
			dB	dB	dB	dB					
1	198.001	33.4	-28.0	+2.7	+16.7	+0.0	+0.0	24.8	30.0	-5.2	Vert
non - Keyboard											
2	210.001	32.9	-28.0	+2.7	+17.0	+0.0	+0.0	24.6	30.0	-5.4	Vert
non - Keyboard											
3	192.007	32.5	-28.0	+2.6	+16.9	+0.0	+0.0	24.0	30.0	-6.0	Vert
4	186.003	31.9	-28.1	+2.6	+17.1	+0.0	+0.0	23.5	30.0	-6.5	Vert
5	58.672	41.8	-28.2	+1.2	+8.5	+0.0	+0.0	23.3	30.0	-6.7	Vert
6	180.001	31.2	-28.1	+2.5	+17.3	+0.0	+0.0	22.9	30.0	-7.1	Vert
7	83.889	40.6	-28.0	+1.5	+8.2	+0.0	+0.0	22.3	30.0	-7.7	Vert

8	191.996	30.6	-28.0	+2.6	+16.9	+0.0	+0.0	22.1	30.0	-7.9	Vert
9	104.758	35.5	-28.1	+1.8	+12.8	+0.0	+0.0	22.0	30.0	-8.0	Vert
10	110.596	33.6	-28.1	+1.9	+14.0	+0.0	+0.0	21.4	30.0	-8.6	Vert
11	330.005	31.5	-28.0	+3.4	+0.0	+21.0	+0.0	27.9	37.0	-9.1	Vert
12	100.630	34.5	-28.1	+1.8	+11.9	+0.0	+0.0	20.1	30.0	-9.9	Vert
13	167.500	27.3	-28.1	+2.4	+17.5	+0.0	+0.0	19.1	30.0	-10.9	Vert
14	102.008	32.9	-28.1	+1.8	+12.2	+0.0	+0.0	18.8	30.0	-11.2	Vert
15	79.653	37.9	-28.0	+1.5	+7.4	+0.0	+0.0	18.8	30.0	-11.2	Vert
16	62.917	37.4	-28.2	+1.3	+7.9	+0.0	+0.0	18.4	30.0	-11.6	Vert
17	629.998	27.1	-27.5	+5.1	+0.0	+20.4	+0.0	25.1	37.0	-11.9	Horiz
18	320.003	27.3	-28.0	+3.4	+0.0	+21.9	+0.0	24.6	37.0	-12.4	Horiz
19	332.362	28.2	-28.0	+3.4	+0.0	+20.8	+0.0	24.4	37.0	-12.6	Horiz

Test Location: CKC LABORATORIES INC • 110 N. OLINDA PL. • BREA, CA 92823 • 714-993-6112

Customer: NMB Technologies Inc.
 Specification: CISPR22 B COND [AVE]
 Test Type: Conducted Emissions
 Equipment: Keyboard
 Manufacturer: NMB Technologies, Inc
 Model: Multi-Function
 S/N:

Date: Mar-18-98
 Time: 12:51
 Sequence#: 5
 Tested By: Septimiu Apahidean

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Keyboard*	NMB Technologies, Inc	Multi-Function	

Support Devices:

Function	Manufacturer	Model #	S/N
Computer	Intel	S100EDZ8FLC	A05721230
Modem	Hayes	6802US	B10068023649
Modem	Hayes	6802US	A00768023303
Mouse	Logitech	M-CQ38	LT554205822
Monitor	HP	D2806B	KR54366896
Printer	HP	C2184A	CN5B21R1DM

Test Conditions / Notes:

The EUT is a keyboard and is connected to the host computer. The computer also has a monitor, mouse, printer, and two modems connected. The EUT is continually sending H's which is being displayed on the monitor. Voltage to computer is 120 VAC 60 Hz. Temperature: 16°C Humidity: 50%

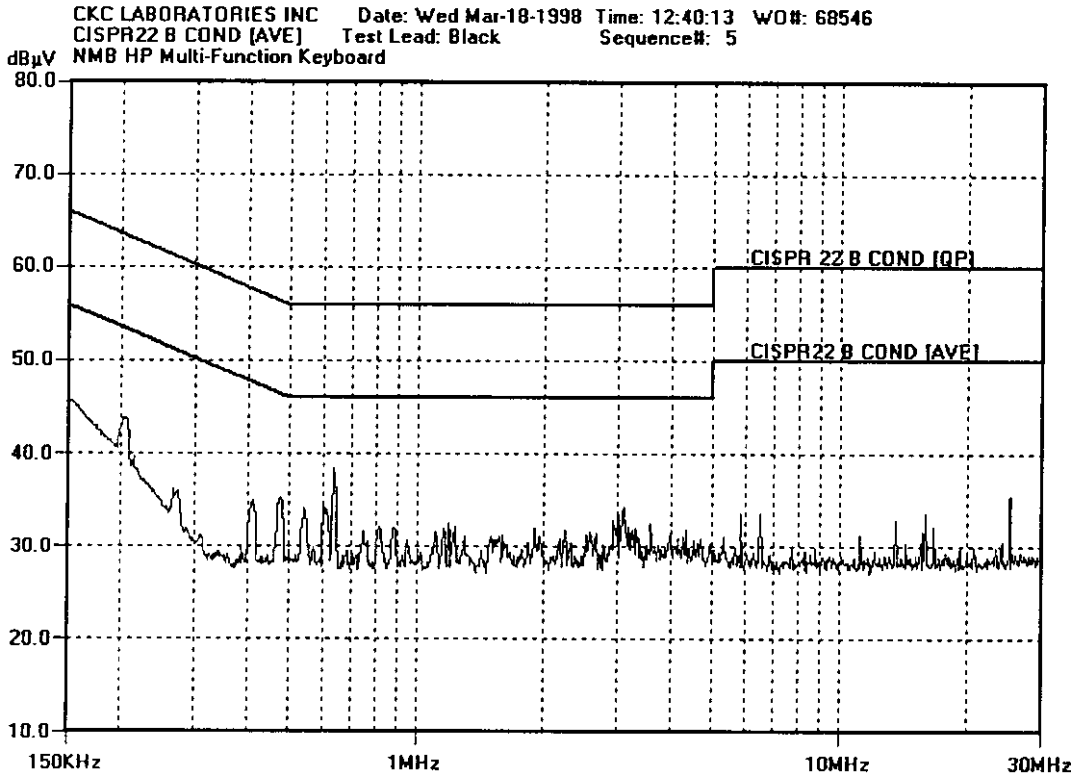
Measurement Data:

Sorted by Margin

Test Lead: Black

#	Freq	Rdng dB μ V	dB				Dist dB	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	637.084k	38.4					+0.0	38.4	46.0	-7.6	Black
2	204.400k	43.9					+0.0	43.9	53.4	-9.5	Black
3	150.319k	46.1					+0.0	46.1	56.0	-9.9	Black
4	477.176k	35.2					+0.0	35.2	46.4	-11.2	Black
5	602.207k	34.4					+0.0	34.4	46.0	-11.6	Black
6	3.098M	34.3					+0.0	34.3	46.0	-11.7	Black
7	541.008k	34.0					+0.0	34.0	46.0	-12.0	Black
8	613.394k	33.9					+0.0	33.9	46.0	-12.1	Black

9	2.997M	33.5	+0.0	33.5	46.0	-12.5	Black
10	3.032M	33.3	+0.0	33.3	46.0	-12.7	Black
11	409.396k	35.0	+0.0	35.0	47.7	-12.7	Black
12	3.136M	32.9	+0.0	32.9	46.0	-13.1	Black
13	2.922M	32.8	+0.0	32.8	46.0	-13.2	Black
14	404.790k	34.6	+0.0	34.6	47.8	-13.2	Black
15	213.812k	39.7	+0.0	39.7	53.1	-13.4	Black



Test Location: CKC LABORATORIES INC • 110 N. OLINDA PL. • BREA, CA 92823 • 714-993-6112

Customer: NMB Technologies Inc. Date: Mar-18-98
 Specification: CISPR22 B COND [AVE] Time: 13:27
 Test Type: Conducted Emissions Sequence#: 6
 Equipment: Keyboard
 Manufacturer: NMB Technologies, Inc Tested By: Septimiu Apahidean
 Model: Multi-Function
 S/N:

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Keyboard*	NMB Technologies, Inc	Multi-Function	

Support Devices:

Function	Manufacturer	Model #	S/N
Computer	Intel	S100EDZ8FLC	A05721230
Modem	Hayes	6802US	B10068023649
Modem	Hayes	6802US	A00768023303
Mouse	Logitech	M-CQ38	LT554205822
Monitor	HP	D2806B	KR54366896
Printer	HP	C2184A	CN5B21R1DM

Test Conditions / Notes:

The EUT is a keyboard and is connected to the host computer. The computer also has a monitor, mouse, printer, and two modems connected. The EUT is continually sending H's which is being displayed on the monitor. Voltage to computer is 120 VAC 60 Hz. Temperature: 16°C Humidity: 50%

Measurement Data: Sorted by Margin Test Lead: White

#	Freq	Rdng dB μ V	dB	dB	dB	dB	Dist dB	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	640.785k	39.1					+0.0	39.1	46.0	-6.9	White
2	206.155k	45.5					+0.0	45.5	53.4	-7.9	White
3	150.319k	47.2					+0.0	47.2	56.0	-8.8	White
4	550.878k	37.1					+0.0	37.1	46.0	-8.9	White
5	542.982k	37.1					+0.0	37.1	46.0	-8.9	White
6	484.415k	37.0					+0.0	37.0	46.3	-9.3	White
7	562.723k	36.5					+0.0	36.5	46.0	-9.5	White
8	490.995k	36.7					+0.0	36.7	46.2	-9.5	White

9	477.834k	36.8	+0.0	36.8	46.4	-9.6	White
10	601.549k	35.4	+0.0	35.4	46.0	-10.6	White
11	3.061M	34.2	+0.0	34.2	46.0	-11.8	White
12	407.422k	35.8	+0.0	35.8	47.7	-11.9	White
13	1.193M	33.5	+0.0	33.5	46.0	-12.5	White
14	3.026M	33.4	+0.0	33.4	46.0	-12.6	White
15	2.997M	33.0	+0.0	33.0	46.0	-13.0	White

