



COMPANY NAME: NMB TECHNOLOGIES, INC.
EUT: RT3604
WORK ORDER NUMBER: 2000340
FCC ID: AQ6-3604

3 CONDUCTED

3.1 Conducted Test Methodology

The power line conducted emission measurements were performed in a Series 81 type shielded enclosure manufactured by Rayproof. The EUT was assembled on a wooden table 80 centimeters high. Power was fed to the EUT through a 50 ohm / 50 microhenry Line Impedance Stabilization Network (EUT LISN). The EUT LISN was fed power through an A.C. filter box on the outside of the shielded enclosure. The filter box and EUT LISN housing are bonded to the ground plane of the shielded enclosure. A second LISN, the peripheral LISN, provides isolation for the EUT test peripherals. This peripheral LISN was also fed A.C. power. A metal power outlet box, which is bonded to the ground plane and electrically connected to the peripheral LISN, powers the EUT host peripherals.

The spectrum analyzer was connected to the A.C. line through an isolation transformer. The 50-ohm output of the EUT LISN was connected to the spectrum analyzer input through a Solar 400 kHz high-pass filter. The filter is used to prevent overload of the spectrum analyzer from noise below 400 kHz. Conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The analyzer's 6 dB bandwidth was set to 9 kHz. No video filter less than 10 times the resolution bandwidth was used. Average measurements are performed in linear mode using a 10 kHz resolution bandwidth, a 1 Hz video bandwidth, and by increasing the sweep time in order to obtain a calibrated measurement. The emission spectrum was scanned from (150/450) kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in this report.



3.2 Conducted Emission Data

Pk = Peak; QP = Quasi-Peak; Av = Average

3.2.1 Neutral Side (L1)

Conducted Emission				Temperature: 73°F		Humidity: 40%		
Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB)	Emission Level (dBuV)	CISPR B QP Limit (dBuV)	CISPR B QP Margin (dBuV)	CISPR B AV Limit (dBuV)	CISPR B AV Margin (dBuV)
0.154	Qp	47.3	1.0	48.3	65.8	-17.5	55.8	-7.5
0.191	Pk	48.0	0.9	48.9	64.0	-15.1	54.0	-5.1
0.269	Pk	32.7	0.7	33.4	61.1	-27.7	51.1	-17.7
8.119	Pk	33.8	2.2	36.0	60.0	-24.0	50.0	-14.0
17.980	Pk	22.9	3.4	26.3	60.0	-33.7	50.0	-23.7
21.150	Pk	21.5	3.7	25.2	60.0	-34.8	50.0	-24.8

3.2.2 Hot Side (L2)

Conducted Emission				Temperature: 73°F		Humidity: 40%		
Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB)	Emission Level (dBuV)	CISPR B QP Limit (dBuV)	CISPR B QP Margin (dBuV)	CISPR B AV Limit (dBuV)	CISPR B AV Margin (dBuV)
0.154	Qp	46.0	0.6	46.6	65.8	-19.2	55.8	-9.2
0.192	Qp	50.5	0.6	51.1	63.9	-12.8	53.9	N/A
0.192	Av	46.9	0.6	47.5	63.9	-16.4	53.9	-6.4
0.269	Pk	37.9	0.6	38.5	61.1	-22.6	51.1	-12.6
0.410	Pk	31.2	0.6	31.8	57.6	-25.8	47.6	-15.8
0.479	Pk	31.8	0.6	32.4	56.4	-24.0	46.4	-14.0
0.565	Pk	33.7	0.7	34.4	56.0	-21.6	46.0	-11.6
8.052	Pk	32.6	2.4	35.0	60.0	-25.0	50.0	-15.0
26.970	Pk	28.4	4.0	32.4	60.0	-27.6	50.0	-17.6

Test Personnel:

Signature: 

Date: August 7, 2000

Typed/Printed Name: K. Franck Schuppius