APPLICANT	Manufacturer
Knogo North America 350 Wireless Boulevard Hauppauge, NY 11788	North American Technical Services 30 Northport Road Sound Beach, NY 11789-1734

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST SAMPLE DESCRIPTION

BRANDNAME: Knogo

MODEL: T-2280 FCC ID:

TYPE: Swept RF Transmitter

FREQUENCY RANGE: Centered at 1.97 and 8.2 MHz

POWER REQUIREMENTS: 18VAC derived from 115VAC, 60 Hz AC Adapter

TESTS PERFORMED

- 15.107(a) Conducted Emissions
- 15.223(a) Radiated Emissions, Fundamental
- 15.223(b) Radiated Emissions, Spurious
- 15.223(b) Occupied Bandwidth

REPORT OF MEASUREMENTS

Applicant: Knogo North America

Device: Swept RF Transmitter

FCC ID:

Power Requirements: 18VAC derived from 115VAC, 60Hz AC Adapter

Applicable Rule Section: Part 15, Subpart C, Section 15.223

TEST RESULTS

15.107(a): The radio frequency voltage that was conducted back on to the AC power line on any frequency/frequencies within the bandwidth of 450kHz to 30MHz did not exceed 250 microvolts.

15.223(a): Field strength of emissions from the intentional radiator operating in the 1.705 - 10 MHz frequency band did not exceed 100 uV/m average for the fundamental. The 6dB bandwidth of the emission was greater than 10% of the center frequency.

15.223(b): Field strength of emissions outside of the band 1.705 - 10 MHz did not exceed the general radiated emissions limits of 15.209.

GENERAL NOTES

1. All user accessible controls were adjusted to produce maximum emissions.

2. Measurements of conducted emissions were performed utilizing a 50 ohm/50µhenry Line Impedance Stabilization Network (LISN).

3. The unit operates at 1.97 and 8.2 MHz.

4. The frequency range was scanned from 1.705 MHz to 1 GHz. All emissions not reported were more than 20dB below the specified limit.

EXHIBIT 4

Radiated Emissions

Para. 15.223(a)
Para. 15.223(b)

(Please see separate e-file attachment named ReFund.pdf and RESpur.pdf)

EXHIBIT 4

Occupied Bandwidth

Para. 15.223(b)
(Please see separate e-file attachment named OccBw.pdf)

EXHIBIT 4

Conducted Emissions

Para. 15.107(a)
(Please see separate e-file attachment named CeData.pdf)

EQUIPMENT LISTS

Conducted Emissions, 450kHz-30MHz

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
077	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	01/12/2000	01/12/2001
079	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	04/27/2000	04/27/2001
202	Transient Limiter	Hewlett Packard	.009 MHz - 200 MHz	11947A	07/19/1999	07/19/2000
575	Graphics Plotter	Hewlett Packard	N/A	7470A	04/25/2000	04/25/2001
R089	Spectrum Analyzer	Hewlett Packard	30 Hz - 2.9 GHz	8560E	09/16/1999	09/16/2001

Radiated Emissions, Fundamental Frequencies, 1.97 and 8.2 MHz

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
012	Loop Antenna, Active	EMCO	9 kHz - 30 MHz	6502	10/04/1999	10/04/2000
067	Open Area Test Site	Retlif	3 Meter	RNY	10/15/1997	10/15/2000
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	03/20/2000	09/20/2000
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	03/08/2000	03/08/2001
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	03/20/2000	09/20/2000

Radiated Emissions, 1-1000MHz

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
012	Loop Antenna, Active	EMCO	9 kHz - 30 MHz	6502	10/04/1999	10/04/2000
067	Open Area Test Site	Retlif	3 Meter	RNY	10/15/1997	10/15/2000
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	06/13/2000	06/13/2001
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	03/20/2000	09/20/2000
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	03/08/2000	03/08/2001
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	03/20/2000	09/20/2000
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	06/13/2000	06/13/2001
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	06/08/2000	06/08/2001

WHERE IS OCC BW EQUIP LIST