

**EXHIBIT A**

[FCC Ref. 2.1033(b)(6)]

"Report of Measurements"

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**PRODUCT DESCRIPTION**

The RF module of Model 27995XXX-A (base unit), a 900MHz single-line cordless telephone base with answering machine that operates from 924.05 MHz to 926.22 MHz, is the same as previously registered Model 27923XXX-A.

The base main unit of Model 27995XXX-A is similar to previously registered Model 27933XXX-A except for model designation, addition of answering machine and component/circuit/pcb layout changes.

The antenna used for the base is permanently attached to the EUT.

Refer to Exhibit A(5) for complete frequency list.

**15.107 (a) POWER LINE CONDUCTED INTERFERENCE**

**Requirements:**

<b>Frequency of Emission (MHz)</b>	<b>Conducted Limit (dB<math>\mu</math>V)</b>	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

**Test Procedure:**

ANSI STANDARD C63.4-1992. using a 50uH LISN. Both lines were observed with the EUT transmitting. The bandwidth of the spectrum analyzer was 9KHz QP with an appropriate sweep speed. The ambient temperature of the EUT was 24°C with a humidity of 60%.

The spectrum was scanned from 0.15 to 30MHz.

**Test Data:**

**Base Unit**

The highest emission read for PHASE was 27.38 dB $\mu$ V/M @ 0.15 MHz.

The highest emission read for NEUTRAL was 25.09 dB $\mu$ V/M@ 20.37 MHz.

The graphs on Appendix 1 and 2 represent the emissions taken for this device.

**Test Results:**

Both lines were observed. The measurements indicate that the unit DOES appear to meet the FCC requirements for this class of equipment.

**15.249 (a), (b) and (c) FIELD STRENGTH OF EMISSIONS****Requirements:**

Fundamental Frequency	Field Strength of Harmonics	15.209	
94dB $\mu$ V	54 dB $\mu$ V/m@ 3m	30-88 MHz	40 dB $\mu$ V/m@ 3m

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

Emissions that fall in the restricted bands (15.205) must be less than 54dB $\mu$ V/m

**Procedure**

The test procedure used was ANSI STANDARD C63.4-1992 and DA-00-705 using an appropriate spectrum analyzer, as listed in the Test Equipment List. The bandwidth (RBW) of the spectrum analyzer was 100KHz/120KHz up to 1GHz with an appropriate sweep speed. The RBW above 1.0GHz was = 1.0MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the EUT was 24°C with a humidity of 60%.

**Test Data:**

Refer to Exhibit A(3)-3

FIELD STRENGTH OF EMISSIONS

Model 27995XXX-A

Base Unit

Emission Frequency MHz	Meter Reading @3m dB $\mu$ V	Antenna	Cable and ACF dB	Field Strength dB $\mu$ V/M	FCC Limit dB $\mu$ V/M	Margin dB	Detector & BW KHz
<u>Channel 1</u>							
924.020	56.00	RT4 V	33.40	89.40	94	-4.60	PK 100
<u>Channel 40</u>							
926.200	56.00	RT4 V	33.40	89.40	94	-4.60	PK 100
<b>BASE UNIT</b> (30MHz - 1GHz)							
<u>TX</u>							
258.04	11.00	BC V	19.80	30.80	46	-15.20	QP 120
462.03	14.00	LP V	22.80	36.80	46	-9.20	QP 120
930.32	10.00	LP V	32.00	42.00	46	-4.00	QP 120

**TEST FACILITY AND EQUIPMENT LIST**

**FACILITIES:**

Radiated      ANSI C63.4 (FCC OET/55) open field 3 metre test range. This test range is protected from the cold and moisture by a non-conductive enclosure.

Conducted      2.5m Anechoic Chamber

**EQUIPMENT**

Anritsu 2601A Spectrum Analyzer  
Advantest R3261A Spectrum Analyzer  
Hewlett-Packard RF generator # 8640 B with an 002 doubler  
A.H. Systems biconical antenna; ..... 20 MHz to 330 MHz  
A.H. Systems log periodic antenna; ..... 300 MHz to 1.8 GHz  
Compliance Design P950 Preamp (16 dB) ... 25 MHz to 1.0 GHz

**NOTE:**

The Anritsu 2601A Spectrum Analyzer and the Advantest R3261A Spectrum Analyzer are calibrated annually, and that calibration is directly traceable to the National Research Council of Canada. (NRC) This equipment is only used by qualified technicians and only for the purpose of EMI measurements. The three metre test range has been carefully evaluated to the ANSI document C63.4 and will be remeasured for reflections and losses every three years.

**ADDITIONAL TEST EQUIPMENT LIST**

1. Spectrum Analyzer: HP 8591EM, S/N 3639A00995, (9KHz - 1.8GHz), Calibration Due June 2005
2. Spectrum Analyzer: ANRITSU 2601A, S/N MT64544, (10KHz - 2.2GHz), Calibration Due June 2005
3. Spectrum Analyzer: IFR AN940, S/N 635001039, (9KHz - 26.5GHz), Calibration Due April 2005
4. Preamp: HP 8449B, S/N 3008A00378, (1 - 26.5GHz), Calibration Due August 2005
5. Horn Antenna: Q-PAR 6878/24, S/N 1721, (1.5-18GHz)
6. Horn Antenna: A. H. Systems SAS 572, S/N 164 (18 - 26.5GHz)
7. Line Impedance Stabilization Network.: Marstech, Calibration Due July 2005
8. Horn Antenna: Radar System (Flange 3/4" Square) MIL F 3922/68 (26.5 - 40GHz)
9. OML Mixer: M28HWD, S/N Ka31114-1 (26.5 - 40GHz), Calibration Due Nov. 10, 2005
10. OML Diplexer: DPL.313A (Unit plugs into M28HWD)
11. Semflex Cable: Used with M28HWD and DPL.313A

## FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division  
7435 Oakland Mills Road  
Columbia, MD 21046

August 22, 2003

Electrohome Electronics Ltd.  
809 Wellington St. N.  
Kitchener, Ontario, N2G 4J6  
Canada  
Attention: Tuat Huynh

Registration Number: 90578

Re: Measurement facility located at Roseville  
3 meter site  
Date of Renewal: August 22, 2003

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website [www.fcc.gov](http://www.fcc.gov) under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,  
  
Ms. Phyllis Parrish  
Information Technician