TOSHIBA

TOSHIBA HOKUTO ELECTRONICS CORPORATION
MAGNETRON ENGINEERING GROUP
1975, 23-CHOME MINAMI 5-JODORI, ASAHIKAWA, HOKKAIDO 078-8335, JAPAN
PHONE : (0166) 31-4728 FACSIMILE : (0166) 31-4739

Mr. R. Kanemitsu
Deputy General Manager
Research & Development Department
Crystal Electric Co., Ltd.
3-22-5, Higashinakamoto,
Higashinari-ku,
Osaka City
Japan

MO-114

June 17 ,2003
(Ref. No. : 03-152)

Re : Electromagnetic radiation and terminal disturbance voltage in your model EM-V5430 microwave oven with Toshiba magnetron 2M248H(IF)-Z1

Dear Mr. Kanemitsu

We are enclosing herewith the above mentioned test results based on CISPR-11(1990) measuring method in our measuring facility.

Please feel free to contact us, if you have any question or request.

Sincerely yours,

Yokoyama Ryosuke

Yokoyama Ryosuke
Manager
Magnetron Engineering Group

RY/HT

Harmonic radiation and tarminal disturbance voltage test

The following measurement were conducted in Toshiba Hokuto Electronics Corporation measureme facility.

Date : June 17, 2003
Oven : EM-V5430
Tube : 2M248H(IF)-Z1
Line : 120V/60Hz

1. Harmonic radiation measurements

1.1 Measurement facility

Spectrum analyzer : Hewlett packard (8562A)
RF amplifier : Avantek (AWT-18047)
Antenna : Spc electronics (5C401A)

1.2 Measurement results

Unit : dBpW

Item	Antenna polarizatuion	
	Vertical	Horizontal
Harmonic radiation	41.5	43.7
EN55011 Limit	57	

Frequency range : 11,700-12,700MHz

2. Terminal disturbance voltage measurement

2.1 Measurement facility

EMI test receiver : Rohde & schwarz (ESHS30)
Artificical mains network : Kyoritu (KNW-242)

2.2 Measurement results

Attached please find "Terminal disturbance voltage" (Fig.1).

Fig. 1

TERMINAL DISTURBANCE VOLTAGE (0.16 to 30 MHz)

Date : June 13, 2003

Oven : EM-V5430

Tube : 2M248H(IF)-Z1

Line : 120V/60Hz

Load : 250ml water in 500ml Pyrex beaker