ACLAP7F21

APPLICATION FOR CERTIFICATION

MODEL NO. FCC ID

NN-G464MFR ACLAP7F21

LIST OF EXHIBITS

- EXHIBIT 1A: TECHNICAL REPORT (Radiated Emissions)
- EXHIBIT 1B: TECHNICAL REPORT (Line Conducted Emissions)
- EXHIBIT 2: PHOTOGRAPHS OF MAGNETRON AND COMPONENTS
- EXHIBIT 3: SAMPLE AND LOCATION OF FCC ID LABEL
- EXHIBIT 4: SCHEMATIC DIAGRAM
- EXHIBIT 5A : REPORT OF MEASUREMENTS (Radiated Emissions)
- EXHIBIT 5B : REPORT OF MEASUREMENTS (Line Conducted Emissions)
- EXHIBIT 6A : LIST OF MEASURING EQUIPMENT AND CALIBRATION (Radiated Emissions)
- EXHIBIT 6B : LIST OF MEASURING EQUIPMENT AND CALIBRATION (Line Conducted Emissions)
- EXHIBIT 7 : OPERATING INSTRUCTIONS
- EXHIBIT 8 : INSTALLATION INSTRUCTIONS

ACLAP7F21 EXHIBIT 1

TECHNICAL REPORT

- 1. DESCRIPTION OF MEASUREMENT FACILITY: The description of the measurement facility is on file with the FCC laboratory.
- 2. INSTALLATION INSTRUCTIONS: See EXHIBIT 7.
- 3. OPERATING INSTRUCTIONS: See EXHIBIT 8.
- 4. APPLICANT:

MATSUSHITA TECHNOLOGY CORPORATION of AMERICA, Microwave Technical Laboratory 1711 N. Randall Road Elgin, Illinois 60123-7847

5. MANUFACTURER:

PANASONIC HOME APPLIANCES, MICROWAVE OVEN CO. LTD. (PHAMOS) 898 Long Dong Road Pu dong Shanghai, 201203 China

6. MEASUREMENT SITE: (Radiated Emissions)

FCC Registration Number 96247 PANASONIC MAGNETRON LAB. PANASONIC INDUSTRIAL COMPANY 1707 N. Randall Road Elgin, II 60123-7847

MEASUREMENT SITE: (Line Conducted Emissions). FCC Registration Number 767285 Jiangsu TUV Product Service Ltd. 10 Huaxia M. Rd. Wuxi, Jiangsu, 214100 China

7. EQUIPMENT IDENTIFICATION: <u>Model No. : NN-G464MFR</u> <u>Brand Name : Panasonic</u> <u>Output Power: 1100W</u> <u>FCC ID : ACLAP7F21</u>

ACLAP7F21

EXHIBIT 1A

8. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: <u>120Vac, 60Hz, 11.2A</u> Nominal Operating Frequency: <u>2450 MHz</u> Maximum RF Energy Generated: <u>1100 W (IEC 705)</u> Grille Heater Power: <u>1100W</u> Magnetron Type: <u>2M261-M32</u> Feed Type and Location: <u>Through the wave guide on the right side of the oven.</u> Stirrer: <u>Turntable</u> Cabinet Dimensions: <u>(W)510 x (H)305 x (D) 380 (mm)</u> Oven Cavity Dimensions: <u>(W) 359x (H) 217 x (D) 352 (mm)</u> Door Viewing Area Dimensions: <u>(W) 280 x (H) 152 (mm)</u> Door Seal Type: <u>Slit Choke seal and capacitive seal method</u>

Model No.	NN-G464MFR	
Input Power	120Vac, 11.2A	
Output Power	1100W	
Magnetron	2M261-M32)	
Brand	Panasonic	

ACLAP7F21 EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-G464MFR

EXHIBIT 2-B: FRONT VIEW OF MODEL NN-G464MFR WITH THE DOOR OPENED

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-G464MFR

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-G464MFR WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-G464MFR

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-G464MFR WITH ENCLOSURE REMOVED

EXHIBIT 2-E: REAR VIEW OF MODEL NN-G464MFR

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-G464MFR

EXHIBIT 2-F2: TOP VIEW OF MODEL NN-G464MFR WITH ENCLOSURE REMOVED

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-G464MFR

EXHIBIT 2-H: VIEW OF CONTROL CIRCUITRY

EXHIBIT 2-I: VIEW OF POWER LINE FILTER CIRCUITRY

EXHIBIT 2-J: VIEW OF INVERTER CIRCUITRY

EXHIBIT 2-K: VIEW OF MAGNETRON TYPE 2M261-M32

EXHIBIT 2-L: VIEW OF DOOR CHOKE CONSTRUCTION ILLUSTRATING INTEGRAL CHOKE TYPE.

ACLAP7F21 EXHIBIT 5A

REPORT OF MEASUREMENTS

- 1. MODEL NO.: NN-G464MFR
 - SERIAL NO. <u>PP-5003</u>

MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 11/12/04

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA: REFER TO EXHIBIT 6

4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 10th Harmonic

5. DATA SUMMARY:

Safety Check : <u><0.07</u> Radiated Field S		//m @ 300m)	Limit
Fundamental	2468 MHz	492.48uv/m	
2nd. Harmonic	4928 MHz	<u>3.27uv/m</u>	36.36
3rd. Harmonic	<u>8153 MHz</u>	<u>2.43uv/m</u>	"
4 th . Harmonic	<u>10366 MHz</u> <u>1</u>	<u>.51uv/m</u> "	
Spurious	<u>2387 MHz</u>	<u>1.56uv/m</u>	"
Emission Sideband	2400 MHz	<u>0.74uv/m</u>	"
Emission Sideband	2500 MHz	<u>1.02uv/m</u>	"

Harmonics greater than 4th. Harmonic not measurable-readings below floor of noise level.

Maximum Frequency Variation:2468 to 2471 MHz(96V ~ 150V/ 1500 ml water load)Maximum Frequency Variation:2470 to 2474 MHz(1500 ml - 300ml water load)Total Power Input to Oven:1925 wattsPower Developed in Dummy Load:1058 wattsSupply Voltage:120 Volts, 60Hz, 16.2A

ACLAP7F21 EXHIBIT 5B

REPORT OF MEASUREMENTS

 NODEL NO.:
 NN-G464MFR

 SAMPLE NO.
 S41206231

 MAGNETRON TYPE NO.:
 2M261-M32

2. MEASUREMENT DATE: 12/06/04

Power Line High Side

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA: REFER TO ATTACHED EXHIBIT 6B

4. INVESTIGATED FREQUENCY RANGE: 0.15MHz to 30MHz

5. DATA SUMMARY: Selected Peak Readings (Refer to Spectrum Analyzer plot for complete readings).

FrequencyQP LevelQP LimitQP DeltaMHzdBuVdBuVdB

Peak Readings are not recorded when there is more than 6dB margin to limit for all measured frequencies.

Frequency	AV Level	AV Limit	AV Delta
MHz	dBuV	dBuV	dB

Peak Readings are not recorded when there is more than 6dB margin to limit for all measured frequencies.

Power Line Neutral Side

Frequency	QP Level	QP Limit	QP Delta
MHz	dBuV	dBuV	dB

Peak Readings are not recorded when there is more than 6dB margin to limit for all measured frequencies.

Frequency	AV Level	AV Limit	AV Delta
MHz	dBuV	dBuV	dB

Peak Readings are not recorded when there is more than 6dB margin to limit for all measured frequencies.