

ACLAP6E01

APPLICATION FOR CERTIFICATION

MODEL NO.

FCC ID

NN-C994S

ACLAP6E01

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EXHIBIT 1

TECHNICAL REPORT

1. DESCRIPTION OF MEASUREMENT FACILITY:

The description of the measurement facility is on file with the FCC laboratory. Please refer to the commission's reference 31010/EQU 4-3-0A.

2. INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. OPERATING INSTRUCTIONS:

See EXHIBIT 8.

4. APPLICANT:

PANASONIC HOME APPLIANCE COMPANY of AMERICA,
MICROWAVE TECHNICAL LAB., E-Zip E2J-16
1707 N. Randall Road
Elgin, Illinois 60123-7847

5. MANUFACTURER:

MATSUSHITA ELECTRIC INDUSTRIAL COMPANY,
Energy & Healthcare Solutions Division
Microwave Oven Business unit
800 Tsutsui-Cho Yamatokoriyama
Nara, 639-1188 Japan

6. MEASUREMENT SITE:(Radiated Emissions)

Panasonic Industrial Company
Panasonic Magnetron Laboratory
FCC Registration Number 96247
1703 N. Randall Road
Elgin, IL 60123-7847

MEASUREMENT SITE: (Line Conducted Emissions).

JQA Safety & EMC Center
FCC Registration Number 342182
TSURU EMC Branch
2096 Ohata Tanbozawa, Tsuru-shi
Yamanashi-ken 402-0045, Japan

7. EQUIPMENT IDENTIFICATION:

Model No. :NE-C994S
Brand Name : Panasonic
FCC ID : ACLAP6E01

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EXHIBIT 1A

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120Vac, 60Hz, 12.8A

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 1100 W (IEC 705)

Magnetron Type: 2M236-M1

Feed Type and Location: Through the wave guide on the right side of the oven.

Stirrer: Stirrer Type

Cabinet Dimensions: (W) 606 x (H) 376 x (D) 491 (mm)

Oven Cavity Dimensions: (W) 412 x (H) 242 x (D) 426 (mm)

Door Viewing Area Dimensions: (W) 320 x (H) 182 (mm)

Door Seal Type: Slit Choke seal and capacitive seal method

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EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-C994S

EXHIBIT 2-B: FRONT VIEW OF MODEL NN-C994S WITH THE DOOR OPENED

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-C994S

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-C994S WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-C994S

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-C994S WITH ENCLOSURE REMOVED

EXHIBIT 2-E1: REAR VIEW OF MODEL NN-C994S

EXHIBIT 2-E2: REAR VIEW OF MODEL NN-C994S WITH ENCLOSURE REMOVED

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-C994S

EXHIBIT 2-F2: TOP VIEW OF MODEL NN-C994S WITH ENCLOSURE REMOVED

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-C994S

EXHIBIT 2-H: VIEW OF MAGNETRON TYPE 2M236-M1

EXHIBIT 2-I: VIEW OF CONTROL

EXHIBIT 2-J: VIEW OF POWER LINE FILTER

EXHIBIT 2-K: VIEW OF INVERTER

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EXHIBIT 5A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-C994S

SERIAL NO. 6B35130005

MAGNETRON TYPE NO.: 2M236-M1

2. MEASUREMENT DATE: 6/10/05

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

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

5. DATA SUMMARY:

Safety Check : <0.1 MW/cm²

Radiated Field Strength: (uV/m @ 300m)	Limit	
Fundamental: <u>2480 MHz</u>	<u>982.63uv/m</u>	N/A
2nd. Harmonic: <u>4958 MHz</u>	<u>3.27uv/m</u>	32.76
3rd. Harmonic: <u>7427 MHz</u>	<u>2.43uv/m</u>	"
4th. Harmonic: <u>10139 MHz</u>	<u>1.70uv/m</u>	"
Spurious: <u>2359 Mhz</u>	<u>0.49uv/m</u>	"
Emission Sideband: <u>2400 MHz</u>	<u>0.47uv/m</u>	"
Emission Sideband: <u>2500 MHz</u>	<u>0.26uv/m</u>	"
Greater than 4th. Harmonic	not measurable	

Maximum Frequency Variation: 2484 to 2488 MHz

(166V ~ 250V/ 1500 ml water load)

Maximum Frequency Variation: 2485 to 2486 MHz

(1500 ml - 300ml water load)

Total Power Input to Oven: 2005 watts

Power Developed in Dummy Load: 858 watts

Supply Voltage: 120 Volts, 60Hz, 17.0A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-C994SF
SAMPLE NO. 6B35160003
MAGNETRON TYPE NO.: 2M236-M1

2. MEASUREMENT DATE: 6/07/05

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).

Power Line High Side

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.15	65.5	66.00.5	53.4	56.0	2.6	
0.27	54.2	61.16.9	40.8	51.1	10.3	
0.47	50.1	56.56.4	37.0	46.5	9.5	
0.78	46.1	56.09.9	<10.1	46.0	>35.9	
1.07	43.1	56.012.9	-	46.0	-	
3.05	29.9	56.026.1	-	46.0	-	
5.00	28.0	56.028.0	- 46.0	-	-	
7.00	34.5	60.025.5	-	50.0	-	
10.00	37.4	60.022.6	-	50.0	-	
14.00	38.6	60.021.4	-	50.0	-	
17.00	36.3	60.023.7	-	50.0	-	
20.00	29.5	60.030.5	-	50.0	-	
25.00	28.2	60.031.8	-	50.0	-	
30.00	24.6	60.035.4	-	50.0	-	

Power Line Neutral Side

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.15	59.3	66.06.7	49.6	56.0	6.4	
0.27	58.8	61.12.3	44.4	51.1	6.7	
0.47	46.4	56.510.1	35.6	46.5	10.9	
0.78	46.1	56.09.9	<10.1	46.0	>35.9	
1.07	46.4	56.09.6	<10.1	46.0	>35.9	
3.05	29.7	56.026.3	-	46.0	-	
5.00	28.2	56.027.8	- 46.0	-	-	
7.00	33.3	60.026.7	-	50.0	-	
10.00	35.2	60.024.8	-	50.0	-	
14.00	38.7	60.021.3	-	50.0	-	
17.00	37.8	60.022.2	-	50.0	-	
20.00	24.8	60.035.2	-	50.0	-	

25.00	18.5	60.041.5	-	50.0	-
30.00	19.7	60.040.3	-	50.0	-