

## EXHIBIT F: TEST REPORT



# FCC PART 18

## EMI MEASUREMENT AND TEST REPORT

For

**Panasonic Home Appliances Microwave Oven (Shanghai) Co.,Ltd**

898 Long Dong Rd. Pu Dong Shanghai

**FCC ID: ACLAP7A01**

<b>This Report Concerns:</b> <input checked="" type="checkbox"/> Original Report	<b>Equipment Type:</b> Microwave Oven
<b>Test Engineer:</b> <u>Henry Yang</u> 	
<b>Report Number:</b> <u>RSH06121353</u>	
<b>Test Date:</b> <u>2006-12-14</u>	
<b>Report Date:</b> <u>2006-12-19</u>	
<b>Reviewed By:</b> <u>EMC Manager: Boni Baniquid</u> 	
<b>Prepared By:</b> Bay Area Compliance Bay Area Compliance Laboratory Corp. (Shenzhen). 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008	

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## GENERAL INFORMATION

### Product Description for Equipment Under Test (EUT)

The *Panasonic Home Appliances Microwave Oven (Shanghai) Co., Ltd* 's model: *NN-SD967* or the "EUT" as referred to in this report is a *Microwave Oven* which measures approximately 60.5 cmL x 45.0 cmW x 33.0 cmH, rated input voltage: AC 120V/60Hz. the other information as following:

Sample No.: PP07004, Output rating: 1250W, Operation frequency: 2450MHz, Magnetron type: 2M261-M32, Employed mode: Turntable, Door seal type: Choke

*\* The test data gathered are from production sample, serial number: 0612102, provided by the manufacturer, we received EUT on 2006-12-13.*

### Objective

The following test report is prepared on behalf of *Panasonic Home Appliances Microwave Oven (Shanghai) Co., Ltd* in accordance with Part 2, Subpart J, and Part 18, Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

### Related Submittal(s)/Grant(s)

This is a Class II Permissive Change. The Original Grant was issued on 01/07/2005.

### Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986. All measurement was performed at Bay Area Compliance Laboratory Corporation. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### Test Facility

The Test site used by Bay Area Compliance Laboratory Corp. (Shenzhen) to collect radiated and conducted emission measurement data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, GuangDong,China.

Test site at Bay Area Compliance Laboratory Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003 and FCC MP-5.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at  
<http://ts.nist.gov/ts/htdocs/210/214/scopes/2007070.htm>

**External I/O Cable**

Cable Description	Length (M)	From/Port	To
Unshielded Undetachable AC Cable	1.2	EUT	AC Power

## SYSTEM TEST CONFIGURATION

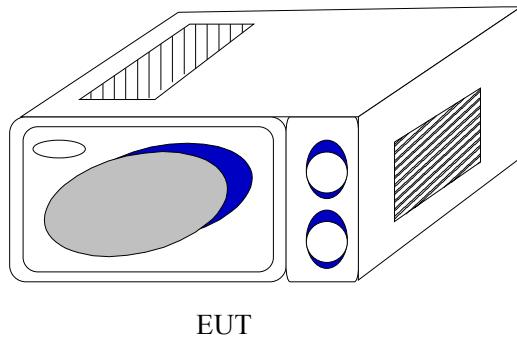
### Justification

The EUT was provided for tests as a stand-alone device. It was prepared for testing in accordance with the manufacturer's instructions. The EUT was operated at maximum (continuous) RF output power. The loads consisted of water in a glass beaker in the amounts specified in the test procedure.

### Equipment Modifications

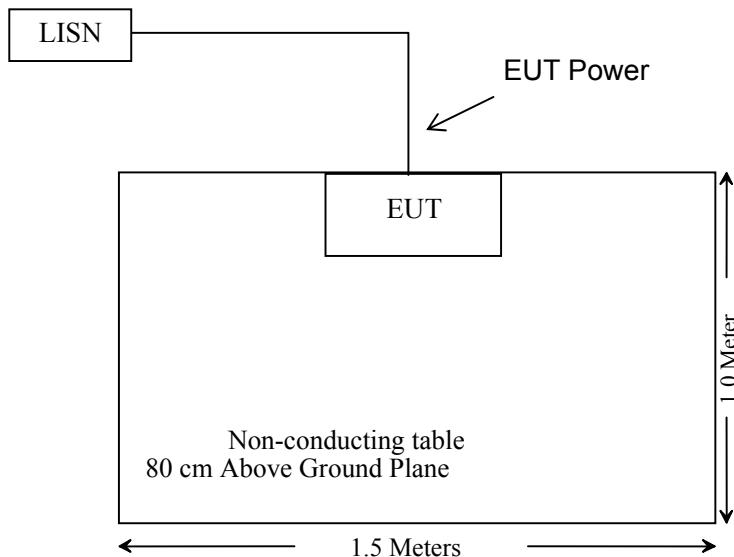
Bay Area Compliance Laboratory Corp. (Shenzhen) has not done any modification on the EUT.

### Configuration of Test Setup



EUT

### Block Diagram of Test Setup



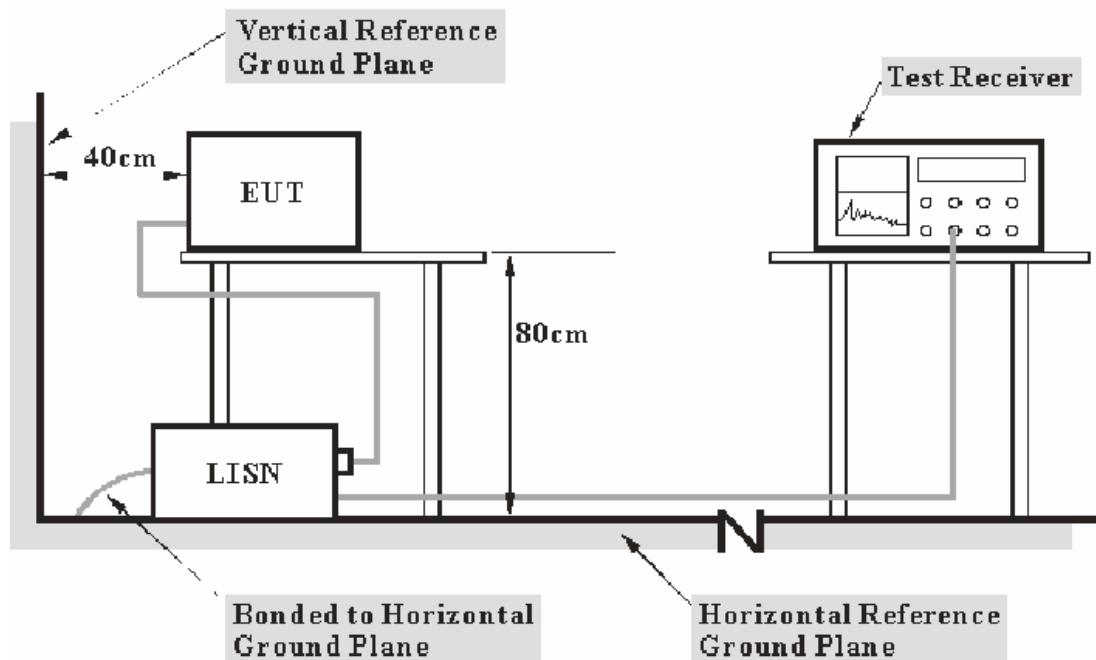
## CONDUCTED EMISSION

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is  $\pm 2.4$  dB.

### EUT Setup



**Note:**

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18 limits.

The EUT was connected to a 120 VAC/ 60 Hz power source.

## Test Receiver Setup

The test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the test receiver was set with the following configurations:

<b><i>Frequency Range</i></b>	<b><i>IF B/W</i></b>
150 kHz – 30 MHz	9 kHz

## Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12208	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	DE25330	2006-3-20	2007-3-19
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2006-3-1	2007-3-1

\* Com-Power's LISN were used as the supporting equipment.

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Procedure

During the conducted emission test, the EUT power cord was connected to the outlet of the LISN.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak detection mode.

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 18, with the worst margin reading of:

**8.00 dB at 0.150 MHz** in the **Neutral** conductor mode.

## Test Data

### Environmental Conditions

Temperature:	26° C
Relative Humidity:	55%
ATM Pressure:	940mbar

Testing was performed by Henry Yang on 2006-12-14.

Test mode: Running (MAX Power)

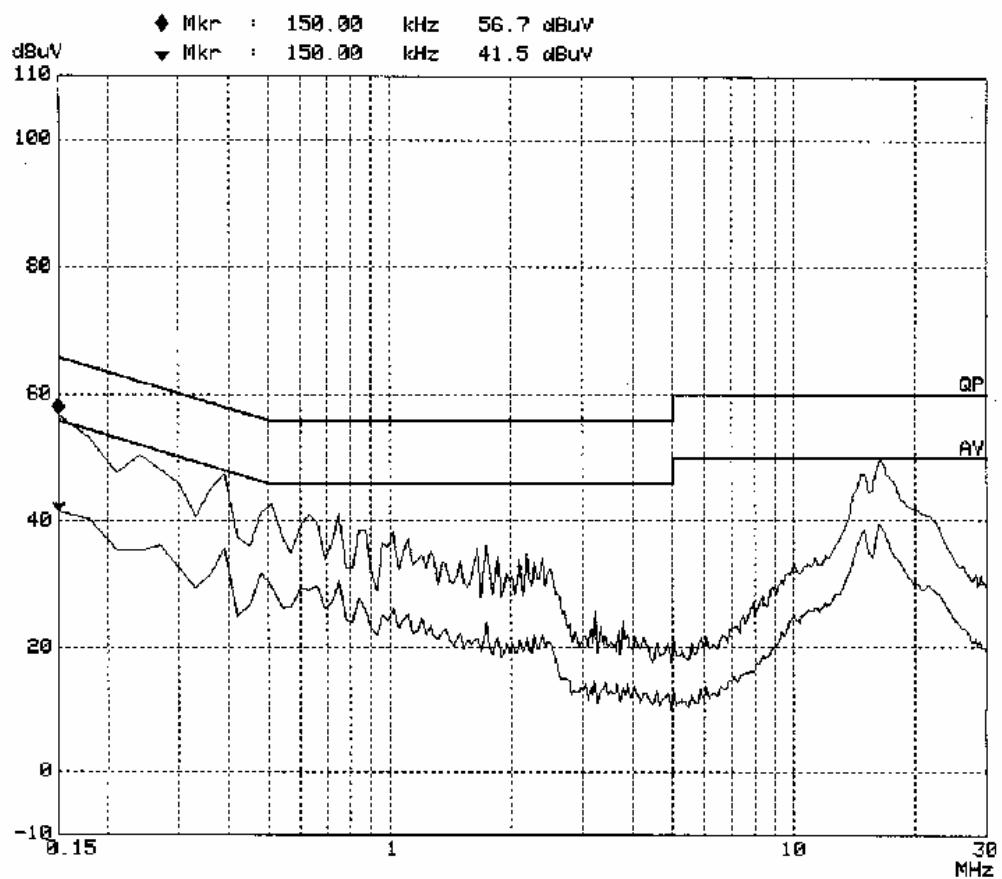
Frequency MHz	LINE CONDUCTED EMISSIONS			FCC Part 18	
	Amplitude dB $\mu$ V	Detector QP	Phase Live/Neutral	Limit dB $\mu$ V	Margin dB
0.150	58.00	QP	Neutral	66.00	8.00
0.240	43.50	AV	Neutral	52.10	8.60
0.150	56.80	QP	Live	66.00	9.20
0.240	52.80	QP	Neutral	62.10	9.30
16.380	50.10	QP	Neutral	60.00	9.90
16.380	39.90	AV	Neutral	50.00	10.10
0.630	45.80	QP	Neutral	56.00	10.20
0.150	45.60	AV	Neutral	56.00	10.40
16.230	39.60	AV	Live	50.00	10.40
0.390	47.60	QP	Live	58.06	10.46
16.230	49.50	QP	Live	60.00	10.50
0.480	45.60	QP	Neutral	56.34	10.74
0.480	35.30	AV	Neutral	46.34	11.04
0.630	33.80	AV	Neutral	46.00	12.20
14.670	37.80	AV	Live	50.00	12.20
0.390	35.70	AV	Live	48.06	12.36
14.670	47.50	QP	Live	60.00	12.50
0.510	42.60	QP	Live	56.00	13.40
0.150	41.50	AV	Live	56.00	14.50
2.430	41.00	QP	Neutral	56.00	15.00
0.630	41.00	QP	Live	56.00	15.00
0.510	29.70	AV	Live	46.00	16.30
0.630	29.10	AV	Live	46.00	16.90
2.430	27.20	AV	Neutral	46.00	18.80

### Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

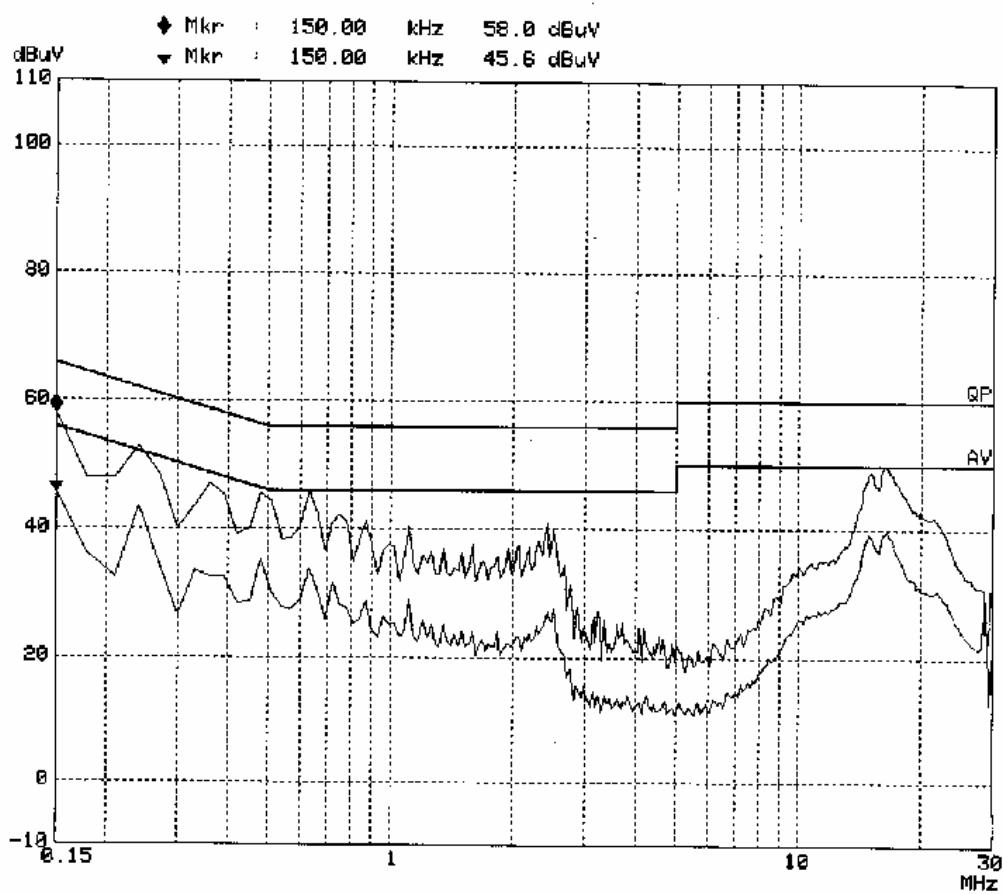
conducted emission test  
FCC Part 18

EUT: Microwave Oven MN:NN-SD967  
Manuf: Panasonic  
Op Cond: Running (Max Power)  
Operator: Henry  
Test Spec: AC 120V/60Hz L  
Comment: Temp:25'C Humi:56%  
Date: 14. Dec 06 20:04



Conducted emission test  
FCC Part 18

EUT: Microwave Oven MN:NN-SD967  
Manuf: Panasonic  
Op Cond: Running (Max Power)  
Operator: Henry  
Test Spec: AC 120V/60Hz N  
Comment: Temp:25'C Humi:56%  
Date: 14. Dec 06 20:21



## RADIATION HAZARD MEASUREMENT

### Environmental Conditions

Temperature:	24°C
Relative Humidity:	55%
ATM Pressure:	940mbar

### Radiation Hazard Measurement

Radiation leakage was measured in the as-received condition with the oven door closed using a microwave leakage meter.

A 275ml water load was placed in the center of the oven and the oven was operated at maximum output power.

There was no microwave leakage exceeding a power level of  $0.69\text{mW/cm}^2$  observed at any point 5cm or more from the external surface of the oven.

A maximum of  $1.0\text{mW/cm}^2$  is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

### Input Power

Input power and current was measured using a power analyzer. A 1500ml water load was placed in the center of the oven and the oven was operated at maximum output power. A 1500ml water load was chosen for its compatibility with the procedure commonly used by manufacturers to determine their input ratings.

Input Voltage (Vac/Hz)	Input Current (amps)	Measured Input Power (watts)	Rated Input Power (watts)
120V/60Hz	12.70	1455	1460

Based on the measured input power, the EUT was found to be operating within the intended specifications.

## Load for Microwave Ovens

For all measurements, the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tap water in a beaker. If the oven was provided with a shelf or other utensil support, this support was in its initial normal position. For ovens rated at 1000 watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000watts output, each quantity was increased by 50% for each 500watts or fraction thereof in excess of 1000watts. Additional beakers were used if necessary.

- Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used. Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.

## The RF output power is rated at 1250 watts

Load used for power output measurement = 1500 milliliters of water

Load used for frequency measurement = 1500 milliliters of water

Load used for harmonic measurement = 1050 & 450 milliliters of water

Load used for radiation leakage measurement = 275 milliliters of water

## RF Output Power Measurement

The Caloric Method was used to determine maximum RF output power. The initial temperature of the water load was measured. The water load was placed in the center of the oven. The oven was operated at maximum output power for 200 seconds, the temperature of the water was re-measured.

Load of Water (ml)	Starting Temperature (°C)	Final Temperature (°C)	Elapsed Time (Seconds)
1500	20	59.0	200

RF Output Power =  $(4.2 \text{ joules/calorie})(\text{volume in milliliters})(\text{temperature rise})/(\text{time in seconds})$

RF Output Power =  $4.2 \times 1500 \times (59.0-20) / 200$

RF Output Power = 1228.5 Watts

The measurement output power was found to be above 500watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared to the limit of 25 $\mu$ V/meter at a 300-meters measurement distance.

☒ The measured output power was found to exceed 500watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared with the limit calculated as following:

$$LFS = 25 * \text{SQRT}(\text{Power Output}/500) (\mu\text{V}/\text{m})$$

$$LFS = 25 * \text{SQRT}(1228.5/500) (\mu\text{V}/\text{m})$$

$$LFS = 39.2 (\mu\text{V}/\text{m})$$

Where: LFS is the maximum allowable field strength for out-of-band emissions in  $\mu\text{V}/\text{meter}$  at a 300-meters measurement distance. Power Output is the measured output power in watts.

Manufacturer	Model Number	LFS( $\mu\text{V}/\text{m}$ )	$\text{dB}(\mu\text{V}/\text{M}) @ 300\text{m}$	$\text{dB}(\mu\text{V}/\text{M}) @ 3\text{m}$
Panasonic Home Appliances Microwave Oven (Shanghai) Co.,Ltd	NN-SD967	39.2	31.9	71.9

## Operating Frequency Measurement

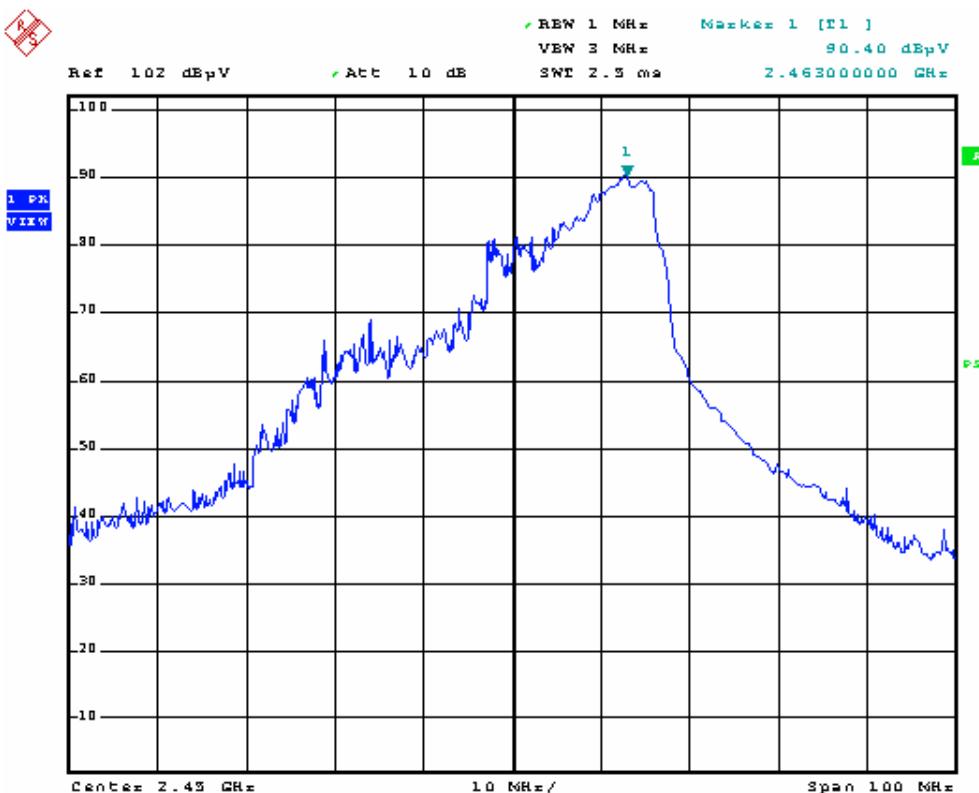
### Variation in Operating Frequency with Time

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1500ml water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

The results of this test are as follows:

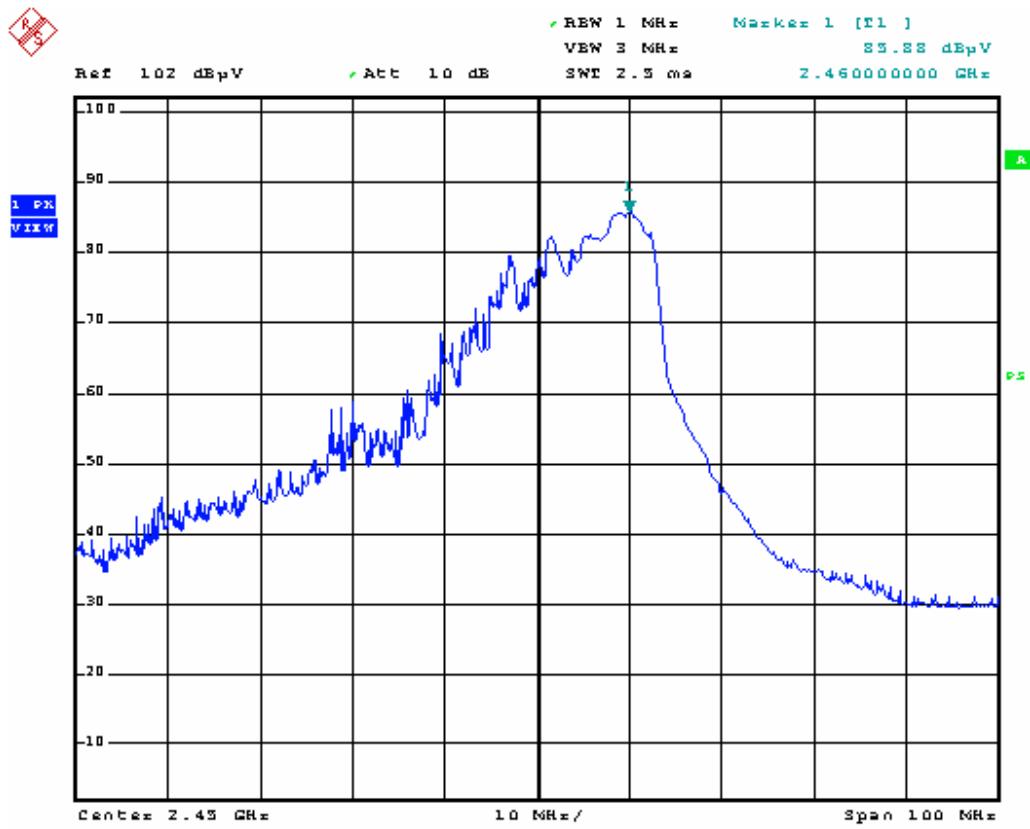
Manufacturer	Model	Minimum Frequency (MHz)	Maximum Frequency (MHz)
Panasonic Home Appliances Microwave Oven (Shanghai) Co.,Ltd	NN-SD967	2460	2463

Refer to data pages for details of the variation in operating frequency with time measurement.



Panasonic Microwave oven M/N:NN-SD967 Frequency & Time

Date: 21.DEC.2006 17:34:21



Panasonic Microwave oven M/N:NN-SD967 Frequency & Time

Date: 21.DEC.2006 16:36:14

**Variation in Operating Frequency with Line Voltage**

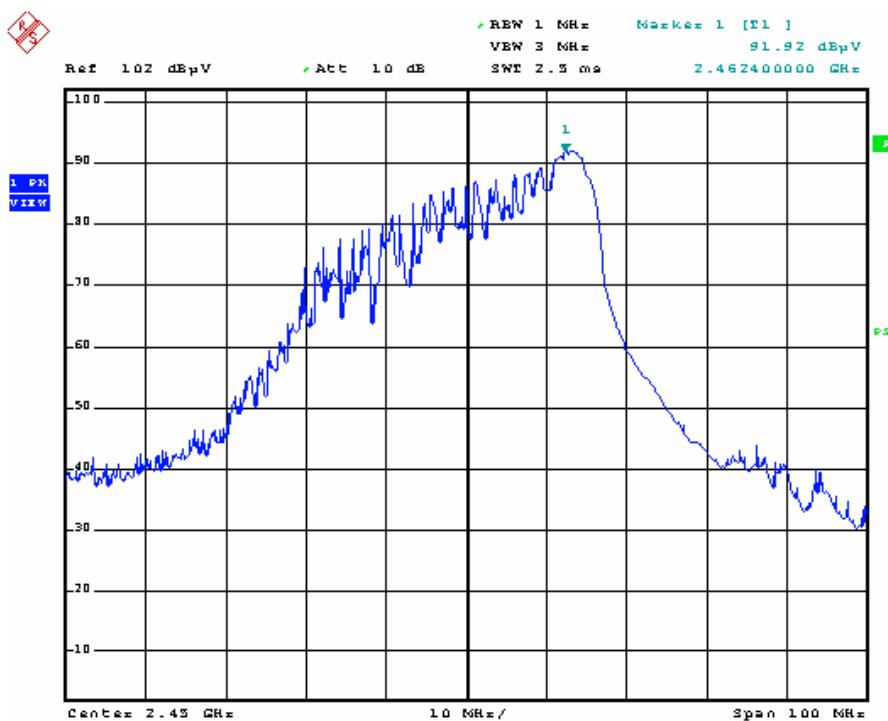
The EUT was operated / warmed by at least 10 minutes of use with a 1500ml water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.

The results of this test are as follows:

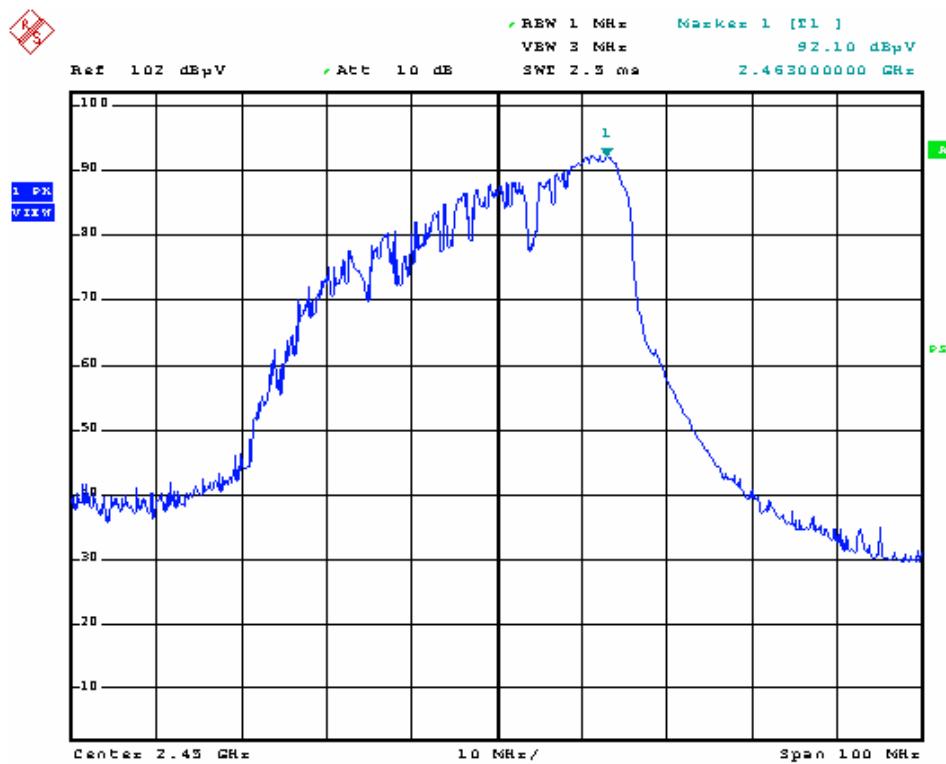
Line voltage varied from 96Vac to 150Vac.

Manufacturer	Model	Minimum Frequency (MHz)	Maximum Frequency (MHz)
Panasonic Home Appliances Microwave Oven (Shanghai) Co.,Ltd	NN-SD967	2462	2463

Please refer to following pages for details of the variation in operating frequency with line voltage measurement.



Panasonic Microwave oven M/N:NN-SD967 Frequency & Voltage  
Date: 21.DEC.2006 17:15:47



Panasonic Microwave oven M/N:NN-SD967 Frequency & Voltage

Date: 21.DEC.2006 17:35:58

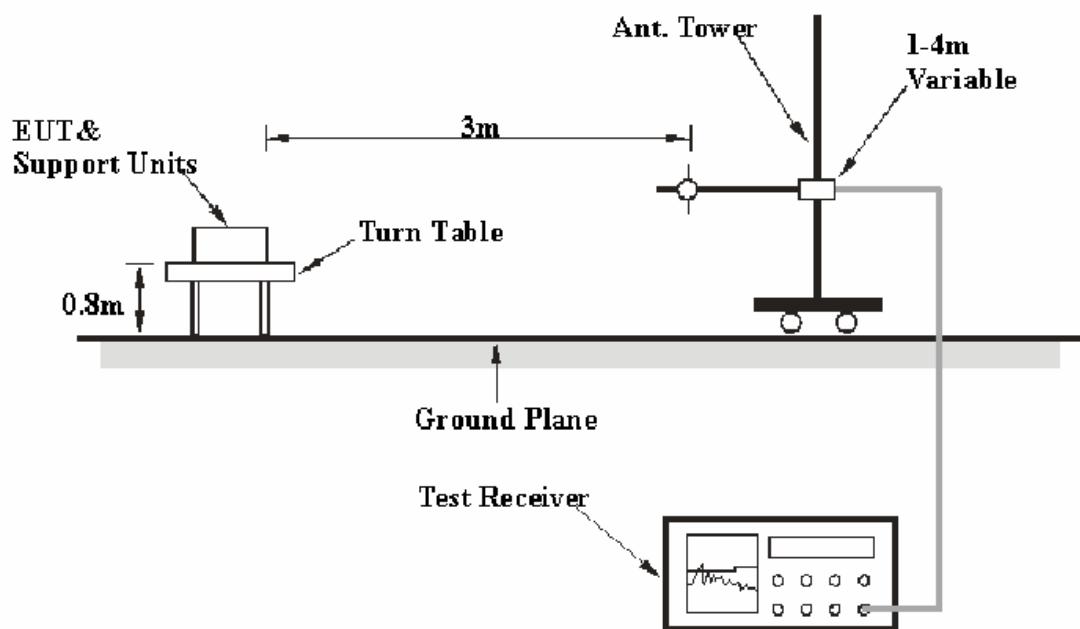
## RADIATED EMISSION DATA

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is  $\pm 4.0$  dB.

### EUT Setup



The radiated emission tests were performed in the 3 meters chamber A test site, using the setup accordance with the FCC MP - 5. The specification used was the FCC part 18 limits.

The EUT was connected to 120 VAC/60 Hz power source.

## Test Receiver Setup and Spectrum Analyzer Setup

The system was investigated from 30 MHz to 24.5 GHz.

During the radiated emission test, the test receiver was set with the following configurations:

<b><i>Frequency Range</i></b>	<b><i>R B/W</i></b>	<b><i>Video B/W</i></b>	<b><i>IF B/W</i></b>
30 – 1000 MHz	100 kHz	300 kHz	120 kHz
Start Frequency.....			1 GHz
Stop Frequency.....			24.5 GHz
Sweep Speed.....			Auto
Video Bandwidth.....			30 Hz
Resolution Bandwidth.....			1 MHz

## Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
HP	Amplifier	8447E	1937A01046	2006-8-17	2007-8-17
Agilent	Spectrum Analyzer	8564E	3943A01781	2006-11-22	2007-11-22
Sunol Sciences	Bilog Antenna	JB1	A040904-2	2006-8-14	2007-8-14
Sunol Sciences	System Controller	SC99V	041304-1	N/A	N/A
HP	Amplifier	8449B	3008A00277	2006-9-29	2007-9-29
Rohde & Schwarz	Spectrum Analyzer	ESCI	T-E032	2006-9-29	2007-9-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2006-7-20	2007-7-20

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Procedure

For the radiated emissions test, the EUT power cord was connected to the AC floor outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was in the normal (naïve) operating mode during the final qualification test to represent the worst results.

All data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz and average detection mode above 1 GHz

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of  $\pm 7\text{dB}$  means the emission is 7dB below the maximum limit; the equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 18, with the worst margin reading of:

Above 1 GHz: **14.30 dB** at **7350 MHz** in the **Horizontal** polarization.

30 MHz to 1GHz: **27.40 dB** at **251.608188 MHz** in the **Horizontal** polarization.

## Test Data and Plots

### Environmental Conditions

Temperature:	22° C
Relative Humidity:	62%
ATM Pressure:	940mbar

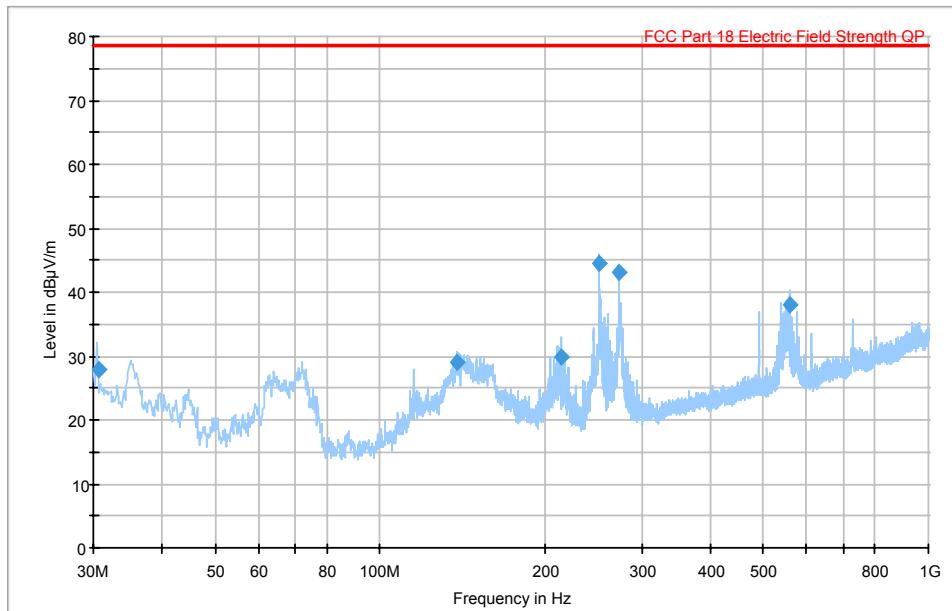
Testing was performed by Henry Yang on 2006-12-14.

Test mode: MAX Power (Above 1 GHz)

INDICATED TABLE		ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE		FCC PART 18		COMMENTS
Frequency MHz	Meter Reading dB $\mu$ V/m	Angle Degree	Height Meter	Polar H/V	Antenna Loss dB	Cable Loss dB	Amplifier Gain dB	Corr. Ampl. dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB	
Above 1 GHz											
7350	51.25	45	1.2	H	35.3	4.75	33.7	57.60	71.9	14.30	AV (Harmonic)
4900	50.80	60	1.0	H	32.0	4.55	33.4	53.95	71.9	17.95	AV (Harmonic)
7350	46.30	180	1.2	V	35.3	4.75	33.7	52.65	71.9	19.25	AV (Harmonic)
4900	44.55	45	1.0	V	32.0	4.55	33.4	47.70	71.9	24.20	AV (Harmonic)
2725	42.83	45	1.0	H	28.5	4.40	35.0	40.73	71.9	31.17	AV (Spurious)
2725	43.50	180	1.2	V	28.5	4.40	35.0	41.40	71.9	30.50	AV (Spurious)
2185	39.50	45	1.2	V	27.3	3.62	34.1	36.32	71.9	35.58	AV (Spurious)
2155	40.33	60	1.0	H	27.3	3.62	34.1	37.15	71.9	34.75	AV (Spurious)
2450	95.03	180	1.2	H	27.4	3.61	0	126.04			PK (Fundamental)
2450	91.07	90	1.0	V	27.4	3.61	0	122.08			PK (Fundamental)

30MHz to 1000MHz:

Auto Test (FCC Part18)



Frequency (MHz)	Quasi Peak (dB $\mu$ V/m)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)
251.608188	44.5	137.0	H	83.0	-12.9	71.9	27.4
272.427125	43.1	272.0	V	72.0	-12.1	71.9	28.8
557.933000	37.9	156.0	V	3.0	-5.8	71.9	34.0
213.680125	29.8	386.0	V	3.0	-14.0	71.9	42.1
138.207438	28.9	221.0	H	59.0	-12.5	71.9	43.0
30.732438	27.8	130.0	V	3.0	-10.7	71.9	44.1