

FCC PART 18
EMI MEASUREMENT AND TEST REPORT

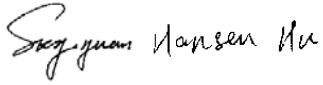

For

Whirlpool Microwave Products Development Ltd

16/F, Paliburg Plaza, 68 Ye Wo Street, Causeway Bay, Hong Kong

FCC ID: PR4GH7208X

August 5, 2005

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Microwave Oven
Test Engineer: Sky Yuan and Hansen Hu 	
Report Number: RSZ05071251	
Test Date: July 28-29, 2005	
Reviewed By: Chris Zeng 	
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Note: The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of Bay Area Compliance Lab Corp. (ShenZhen). This report **must not** be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the US Government.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Whirlpool Microwave Products Development Ltd*'s model: GH7208X series or the "EUT" as referred to in this report is a Microwave Oven which measures approximately 76.5 cm L x 46.0cm W x 46.5cm H, rated input voltage: AC 120 V/60 Hz.

* *The test data gathered are from production sample, serial number: TR S 53 10002, provided by the manufacturer.*

Objective

The following test report is prepared on behalf of *Whirlpool Microwave Products Development Ltd* in accordance with Part 2, Subpart J, and Part 18, Subparts A, B and C of the Federal Communication Commissions rules.

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

Related Submittal(s)/Grant(s)

No related submittal(s).

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 Lab 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 518038, P.R.China.

Test site at Bay Area Compliance Lab 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 Lab 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 Cable List and Details

Cable Description	Length (M)	From/Port	To
Unshielded Undetachable AC Power Cable	1.0	EUT	AC Power

OPERATING CONDITION/TEST CONFIGURATION

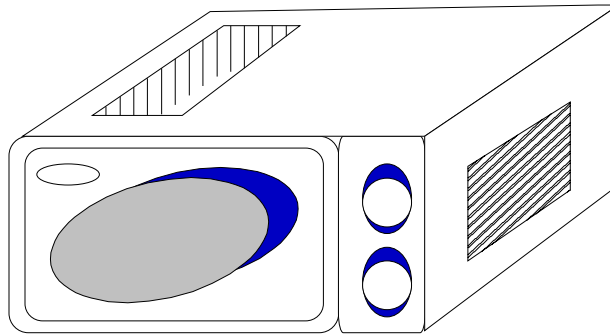
Justification

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.

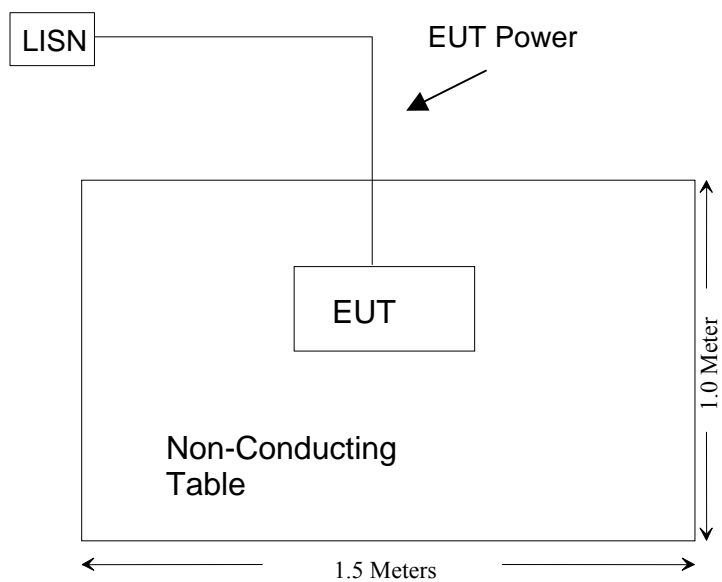
Equipment Modifications

The EUT tested was not modified by Bay Area Compliance Lab Corp. (ShenZhen).

Configuration of Test Setup



Block Diagram of Test Setup



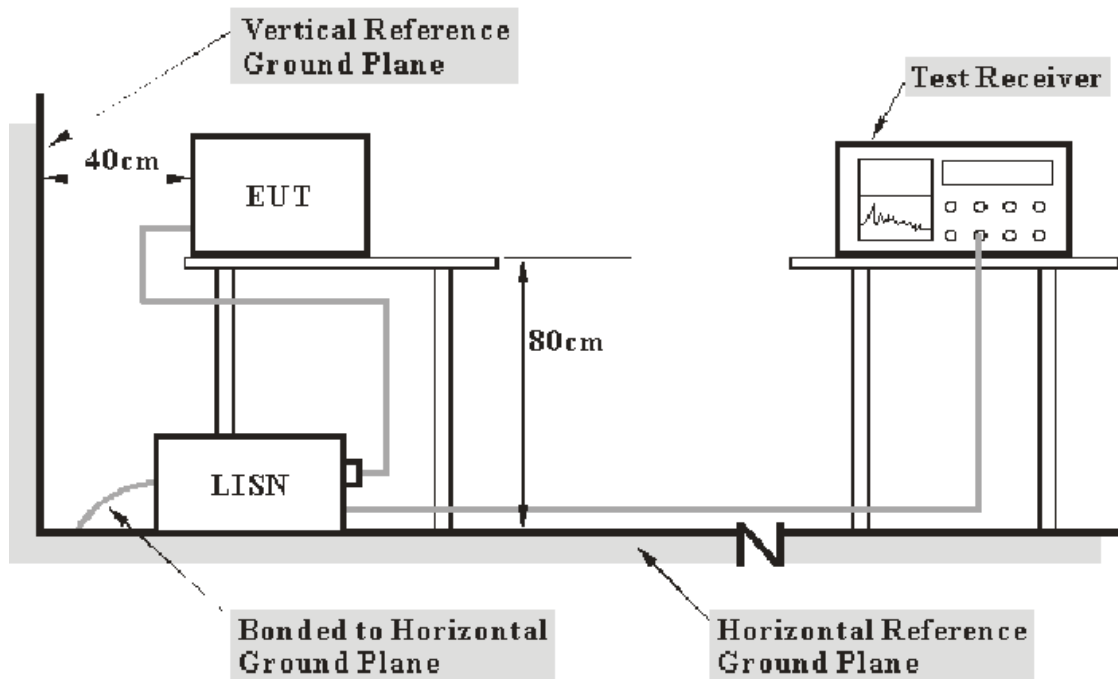
CONDUCTED EMISSION

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 Lab Corp. (ShenZhen) is ± 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 per MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18.

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

EMI Test Receiver Setup

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12008	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2005-1-26	2006-1-26
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2005-2-28	2006-2-28

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

* **Statement of Traceability:** Bay Area Compliance Lab 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 and average 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:

-2.40 dB at 23.965 MHz in the **Line** conductor mode.

Test Data**Environmental Conditions**

Temperature:	27° C
Relative Humidity:	65%
ATM Pressure:	1000mbar

Testing was performed by Hansen Hu on 2005-7-28.

Test mode: MAX Power

Frequency MHz	LINE CONDUCTED EMISSIONS			FCC PART 18	
	Amplitude DB μ V	Detector QP/AV	Phase Line/Neutral	Limit dB μ V	Margin dB
23.965	47.60	AV	Line	50.00	-2.40
23.965	56.20	QP	Line	60.00	-3.80
23.965	46.20	AV	Neutral	50.00	-3.80
23.965	54.50	QP	Neutral	60.00	-5.50
0.170	44.10	AV	Neutral	50.00	-5.90
0.255	54.60	QP	Neutral	61.59	-6.99
10.960	48.70	QP	Line	56.00	-7.30
0.250	53.80	QP	Line	61.76	-7.96
0.255	42.20	AV	Neutral	51.59	-9.39
0.170	54.70	QP	Neutral	64.96	-10.26
0.170	54.60	QP	Line	64.96	-10.36
0.345	48.40	QP	Neutral	59.08	-10.68
10.840	49.10	QP	Neutral	60.00	-10.90
10.960	39.10	AV	Line	50.00	-10.90
10.840	39.00	AV	Neutral	50.00	-11.00
0.250	40.70	AV	Line	51.76	-11.06
0.345	37.30	AV	Neutral	49.08	-11.78
0.170	40.80	AV	Line	54.96	-14.16
19.265	44.90	QP	Line	60.00	-15.10
1.305	40.50	QP	Line	56.00	-15.50
1.305	40.10	QP	Neutral	56.00	-15.90
19.265	33.90	AV	Line	50.00	-16.10
1.305	27.70	AV	Line	46.00	-18.30
1.305	27.40	AV	Neutral	46.00	-18.60

Plot(s) of Test Data

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

Line:

Conducted Emission Test
FCC part 18

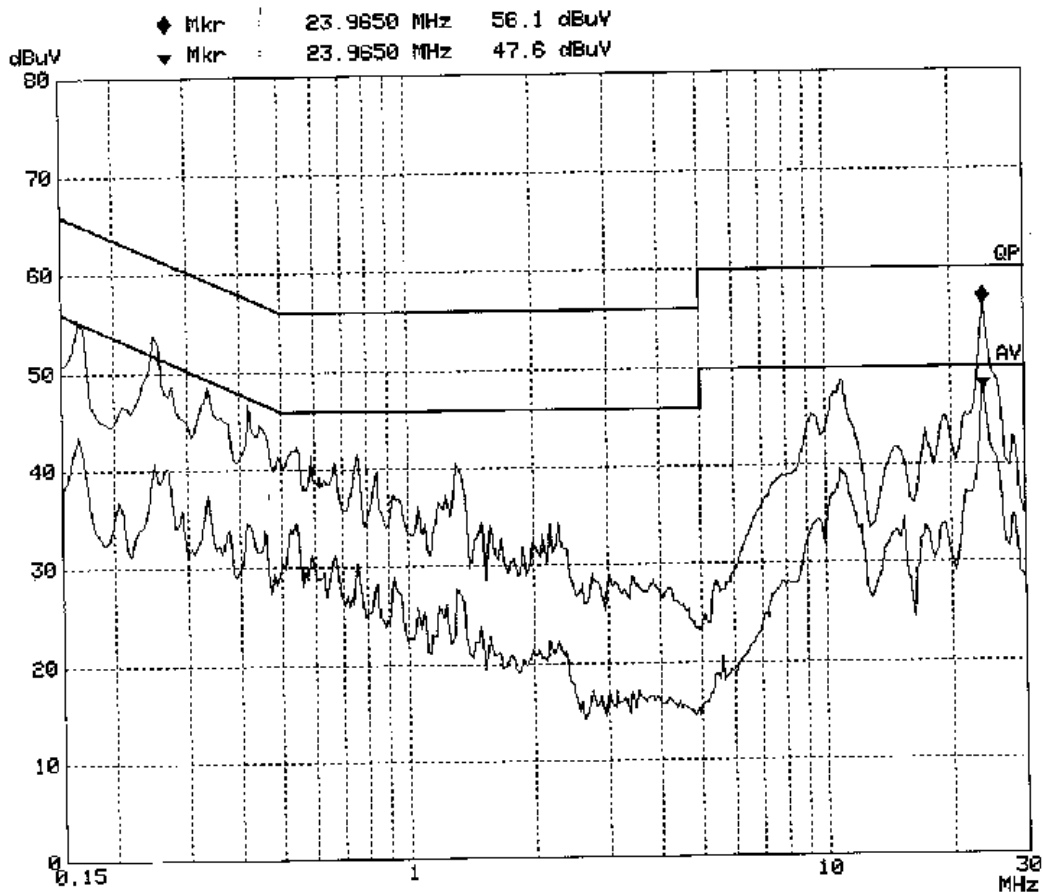
EUT: Microwave Oven M/N:GH7208X series
 Manuf: Whirlpool
 Op Cond: MAX Power
 Operator: Hansen
 Test Spec: AC 120V/60Hz L
 Comment: Temp:27
 Humi:65%
 Date: 28. Jul 05 13:44

Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	QP+AV	10ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	ESH3

Final Measurement: x QP / + AV
 Meas Time: 1 s
 Subranges: 25
 Acc Margin: 6dB



Neutral:

Conducted Emission Test
FCC port 18

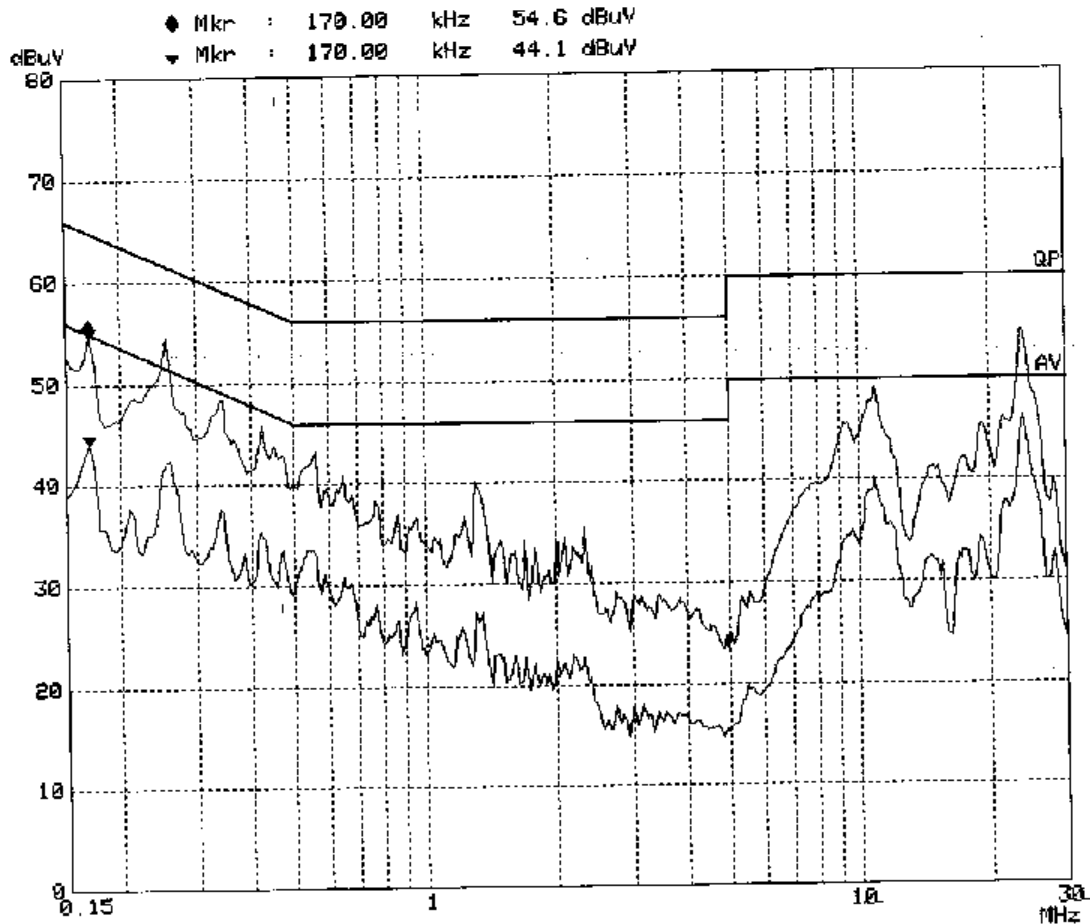
EUT: Microwave Oven M/N:GH7208X series
 Manuf: Whirlpool
 Op Cond: MAX Power
 Operator: Hansen
 Test Spec: AC 120V/60Hz N
 Comment: Temp:27
 Humi:65%
 Date: 28. Jul 05 14:43

Scan Settings (1 Range)

Frequencies			Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten Preamp
150k	30M	5k	9k	QP+AV	10ms	AUTO LN OFF

Transducer No.	Start	Stop	Name
1	9k	30M	ESH3

Final Measurement: x QP / + AV
 Meas Time: 1 s
 Subranges: 25
 Acc Margin: 6dB



RADIATION HAZARD MEASUREMENT

Environmental Conditions

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2004-9-15	2005-9-15
Sunol Sciences	Horn Antenna	DRH-118	A052604	2005-6-2	2006-6-2
HP	Preamplifier	8449B	3008A00277	2004-9-1	2005-8-31
Ainuo	Digital Power Analyzer	8732B	028706117	2004-12-23	2005-12-23
HY	AC Power Source	9020117	GY053(1)	2004-8-21	2005-8-21
Holday	Leakage Meter	HI-1710	05/2731	2005-6-2	2006-6-2

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

Radiation Hazard Measurement

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

A 1000ml 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 $0.56\text{mW}/\text{cm}^2$ observed at any point 5cm or more from the external surface of the oven.

A maximum of $1.0\text{mW}/\text{cm}^2$ 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 1000ml water load was placed in the center of the oven and the oven was operated at maximum output power. A 1000ml 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)
120/60	14.50	1741	1800

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 1000 watts

Load used for power output measurement = 1000 milliliters of water
 Load used for frequency measurement = 1000 milliliters of water
 Load used for harmonic measurement = 700 & 300 milliliters of water
 Load used for other measurement = 700milliliters 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 100 seconds, the temperature of the water was re-measured.

Quality of Water (ml)	Starting Temperature (°C)	Final Temperature (°C)	Elapsed Time (Seconds)
1000	21	68	200

Power = (4.2 joules/calorie)(volume in milliliters)(temperature rise)/(time in seconds)

Power = 4.2 joules/calorie x 1000 x (68-21) / 200

Power = 987 watts

The measurement output power was found to be less than 500watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared to the limit of 25µV/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:

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

$$\text{LFS} = 25 * \text{SQRT} (987/500)$$

$$\text{LFS} \approx 35.1$$

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	dB($\mu\text{V}/\text{M}$)	dB($\mu\text{V}/\text{M}$)@3m
Whirlpool Microwave Products Development Ltd	GH7208X Series	35.1	30.9	70.9

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 1000ml 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.

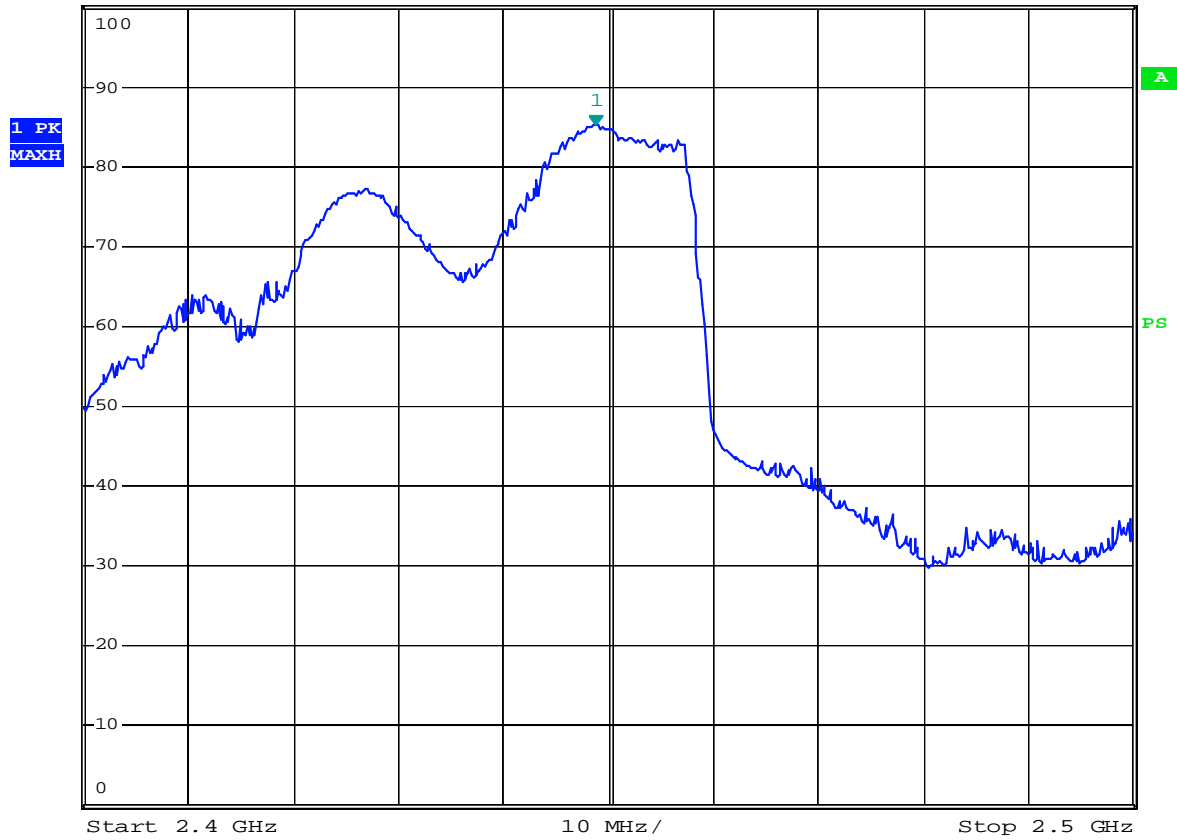
The results of this test are as follows:

Manufacturer	Model	Minimum Frequency (MHz)	Maximum Frequency (MHz)
Whirlpool Microwave Products Development Ltd	GH7208X Series	2445.20	2448.80

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



Ref 100 dBμV *Att 10 dB *RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz 85.23 dBμV
*SWT 500 ms 2.448800000 GHz



Whirlpool Microwave Oven Frequency Stability VS Time Start

Date: 1.AUG.2005 09:23:10

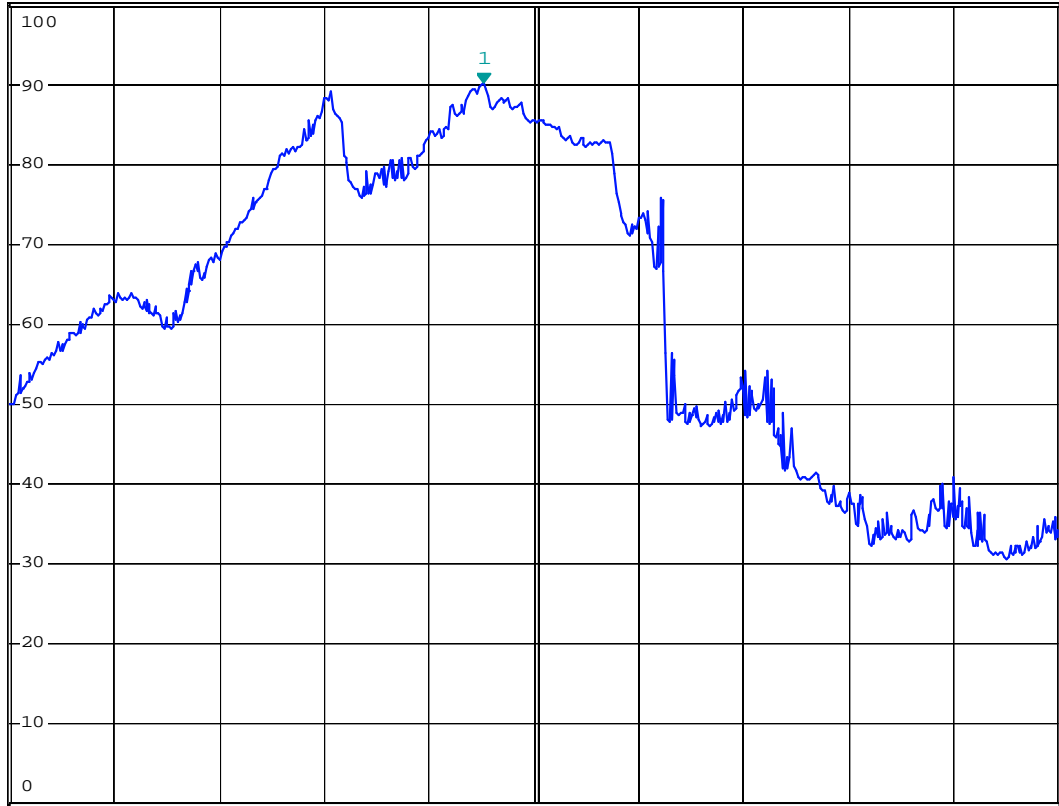


*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz 90.20 dBμV
*SWT 500 ms 2.445200000 GHz

Ref 100 dBμV

*Att 10 dB

1 PK
VIEW



Start 2.4 GHz

10 MHz/

Stop 2.5 GHz

Whirlpool Microwave Oven Frequency Stability VS Time End

Date: 1.AUG.2005 10:02:35

Variation in Operating Frequency with Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1000ml 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:

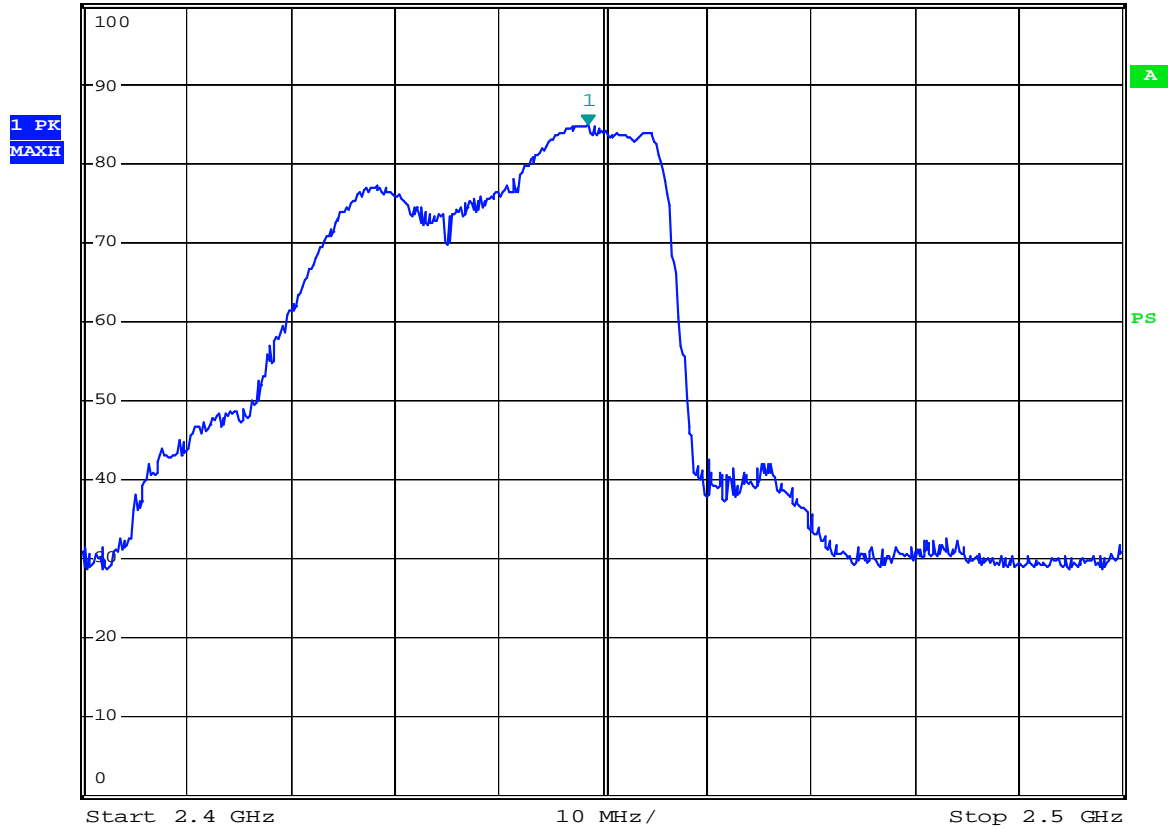
Line voltage varied from 96Vac to 150Vac.

Manufacturer	Model	Minimum Frequency (MHz)	Maximum Frequency (MHz)
Whirlpool Microwave Products Development Ltd	GH7208X Series	2447.00	2448.60

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



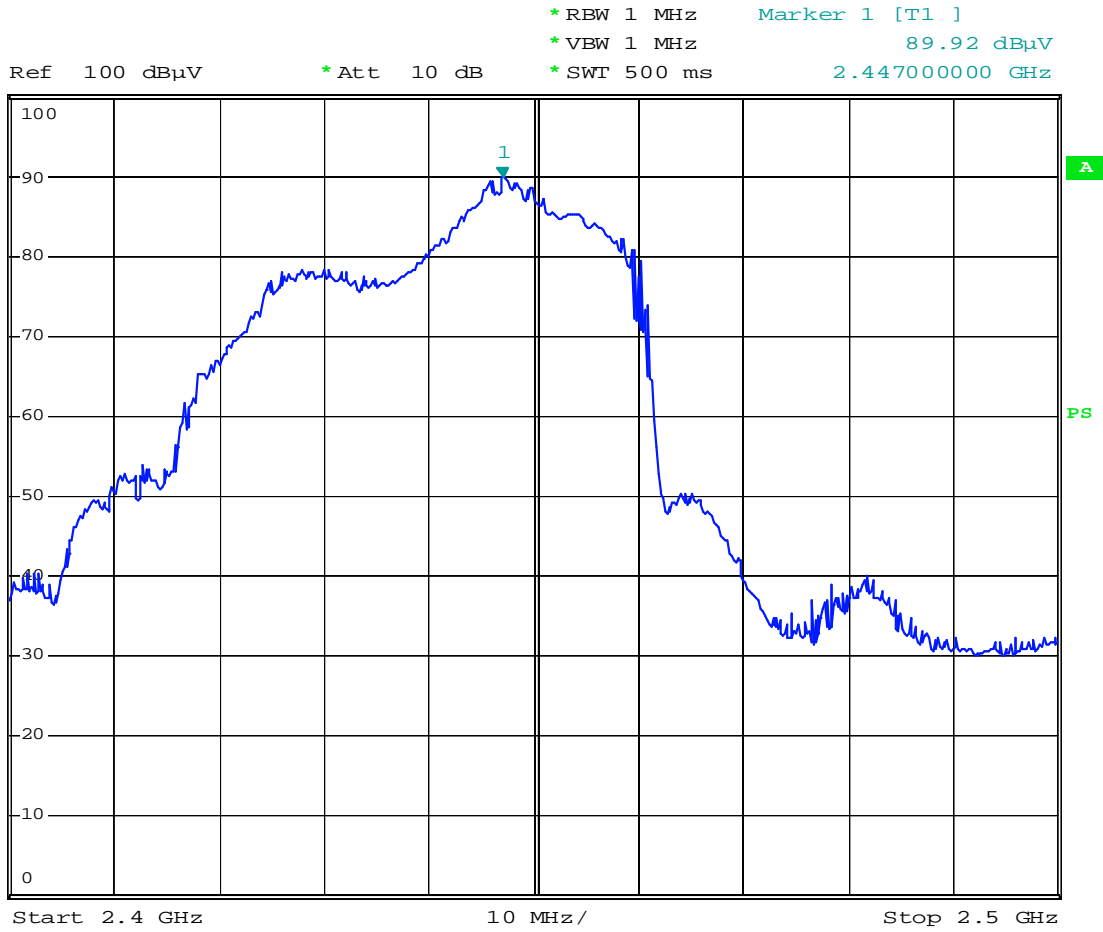
Ref 100 dB μ V * Att 10 dB * RBW 1 MHz Marker 1 [T1]
* VBW 1 MHz 84.82 dB μ V
* SWT 500 ms 2.448600000 GHz



Whirlpool Microwave Oven Frequency Stability VS Voltage Star

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Date: 1.AUG.2005 10:04:01



Whirlpool Microwave Oven Frequency Stability VS Voltage End

Date: 1.AUG.2005 10:17:34

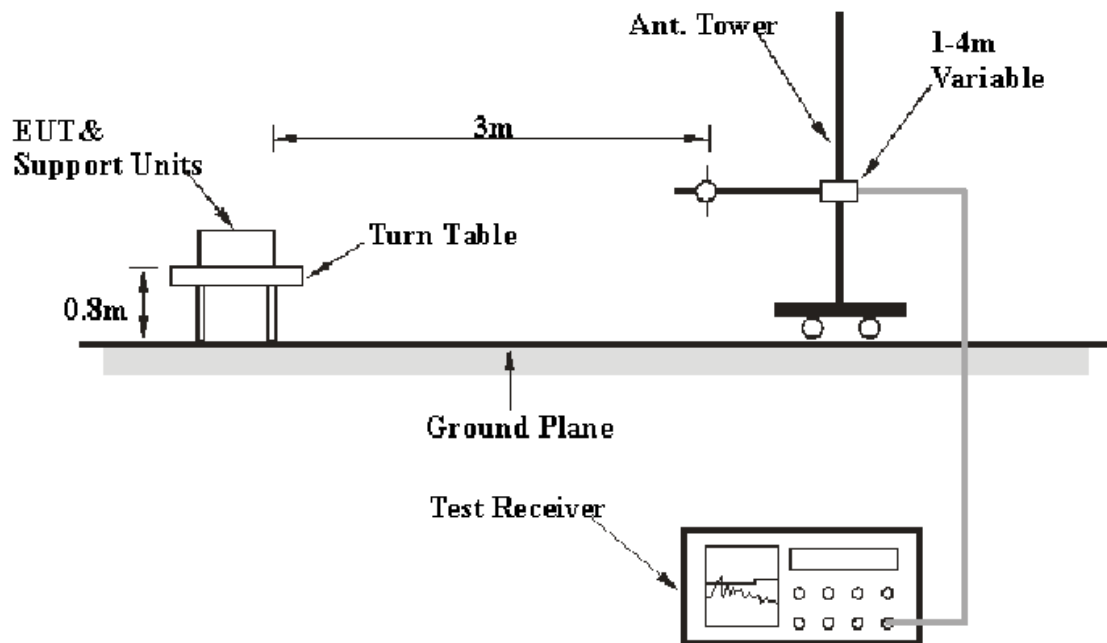
RADIATED EMISSION DATA

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 Lab Corp. (ShenZhen) is ± 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:

<i>Frequency Range</i>	<i>R B/W</i>	<i>Video B/W</i>	<i>IF B/W</i>
30 – 1000 MHz	100 kHz	100 kHz	120 kHz
Above 1 GHz	1 MHz	1 MHz	

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

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2004-9-1	2005-8-31
Rohde & Schwarz	Test Receiver	ESCI	100035	2004-9-15	2005-9-15
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2005-4-28	2006-4-28
Sunol Sciences	System Controller	SC99V	041304-1	N/A	N/A
HP	Amplifier	8449B	3008A00277	2004-9-1	2005-8-31
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2004-11-10	2005-11-10
Sunol Sciences	Horn Antenna	DRH-118	A052604	2005-6-2	2006-6-2

* **Statement of Traceability:** Bay Area Compliance Lab 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 -7dB 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:

30MHz to 1000MHz: **-3.50 dB** at **102.35 MHz** in the **Horizontal** polarization.

Above 1 GHz: **-13.00 dB** at **7326.25 MHz** in the **Horizontal** polarization.

Test Data and Plots**Environmental Conditions**

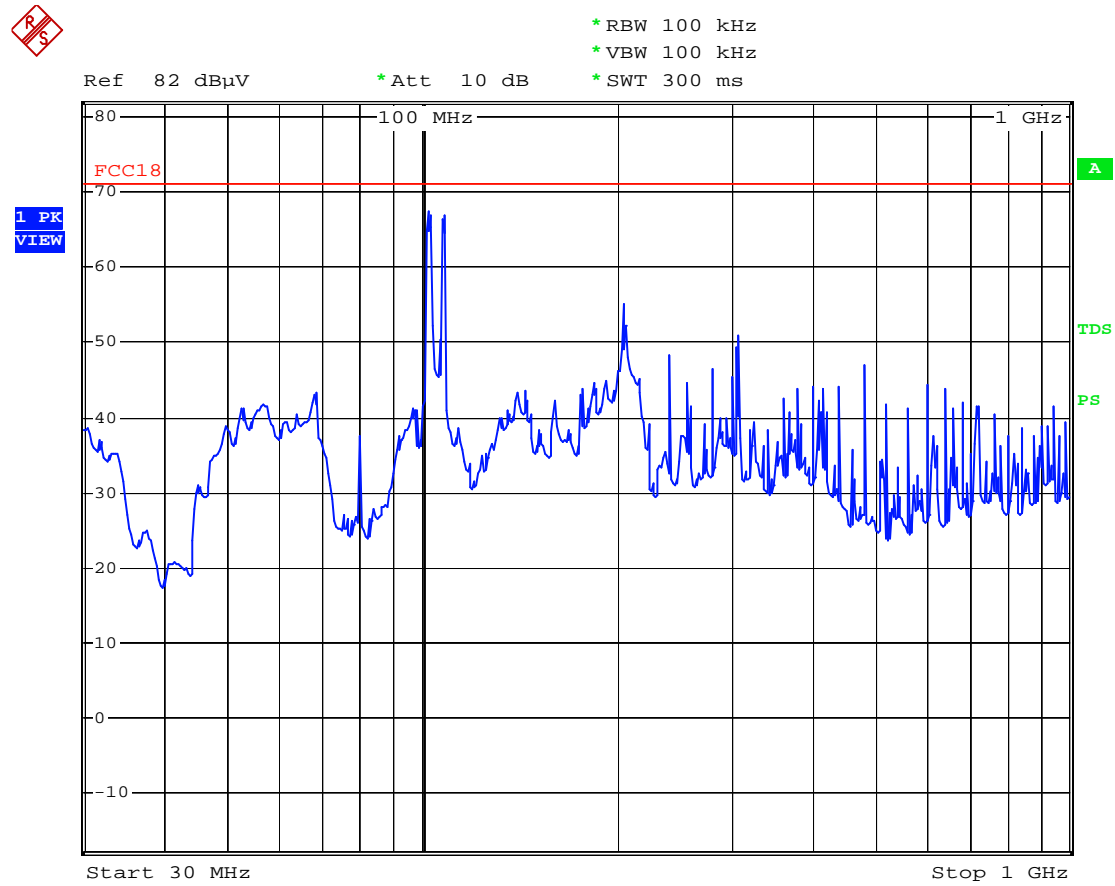
Temperature:	26° C
Relative Humidity:	55%
ATM Pressure:	990mbar

Testing was performed by Sky Yuan on 2005-7-28.

Test mode: MAX Power

Frequency MHz	Meter Reading dBuV/m	Detector PK/AV	Direction Degree	Height Meter	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier Gain dB	Corr.Ampl dBuV/m	FCC Part18	
										Limit dBuV/m	Margin dB
30 MHz to 1000 MHz											
102.35	82.6	PK	60	1.2	H	9.6	1.5	26.23	67.4	70.9	-3.50
108.36	80.6	PK	35	3.8	H	11.0	1.6	26.21	67.0	70.9	-3.90
102.35	79.6	PK	289	1.0	V	9.6	1.5	26.23	64.5	70.9	-6.40
107.51	76.1	AV	289	1.0	V	11.0	1.6	26.21	62.5	70.9	-8.40
204.95	66.5	AV	35	3.8	H	12.6	1.5	25.57	55.0	70.9	-15.90
55.22	71.3	PK	180	1.2	V	7.9	1.5	26.32	54.4	70.9	-16.50
204.95	63.9	PK	60	1.0	V	12.6	1.5	25.57	52.5	70.9	-18.40
307.83	59.5	PK	45	1.2	H	13.9	2.6	25.21	50.8	70.9	-20.10
240.83	59.6	PK	90	1.2	H	12.3	1.5	25.28	48.2	70.9	-22.70
482.21	52.7	PK	180	1.2	H	17.9	2.6	26.35	46.8	70.9	-24.10
148.44	57.8	PK	45	1.0	V	13.4	1.5	26.01	46.6	70.9	-24.30
32.86	45.9	PK	45	1.0	V	24.1	1.4	26.44	45.0	70.9	-25.90
68.63	59.7	PK	0	1.0	H	8.5	1.5	26.32	43.3	70.9	-27.60
307.83	51.3	PK	45	1.2	V	13.9	2.6	25.21	42.6	70.9	-28.30
1000 MHz to 25GHz											
7326.25	48.94	AV (Harmonic)	180	1.2	H	37.3	6.1	34.49	57.9	70.9	-13.00
7327.05	46.95	AV (Harmonic)	45	1.2	V	37.3	6.1	34.49	55.9	70.9	-15.00
9753.20	45.56	AV (Harmonic)	60	1.0	H	37.8	7.1	35.80	54.7	70.9	-16.20
4888.87	47.94	AV (Harmonic)	45	1.0	V	33.9	5.2	34.87	52.2	70.9	-18.70
9783.06	39.56	AV (Harmonic)	45	1.2	V	37.8	7.1	35.80	48.7	70.9	-22.20
4896.09	40.56	AV (Harmonic)	60	1.0	H	33.9	5.2	34.87	44.8	70.9	-26.10
2447.34	89.16	PK (Fundamental)	45	1.0	V	28.1	3.7	0	121.0		
2445.82	90.03	PK (Fundamental)	180	1.2	H	28.1	3.7	0	121.8		

Horizontal:

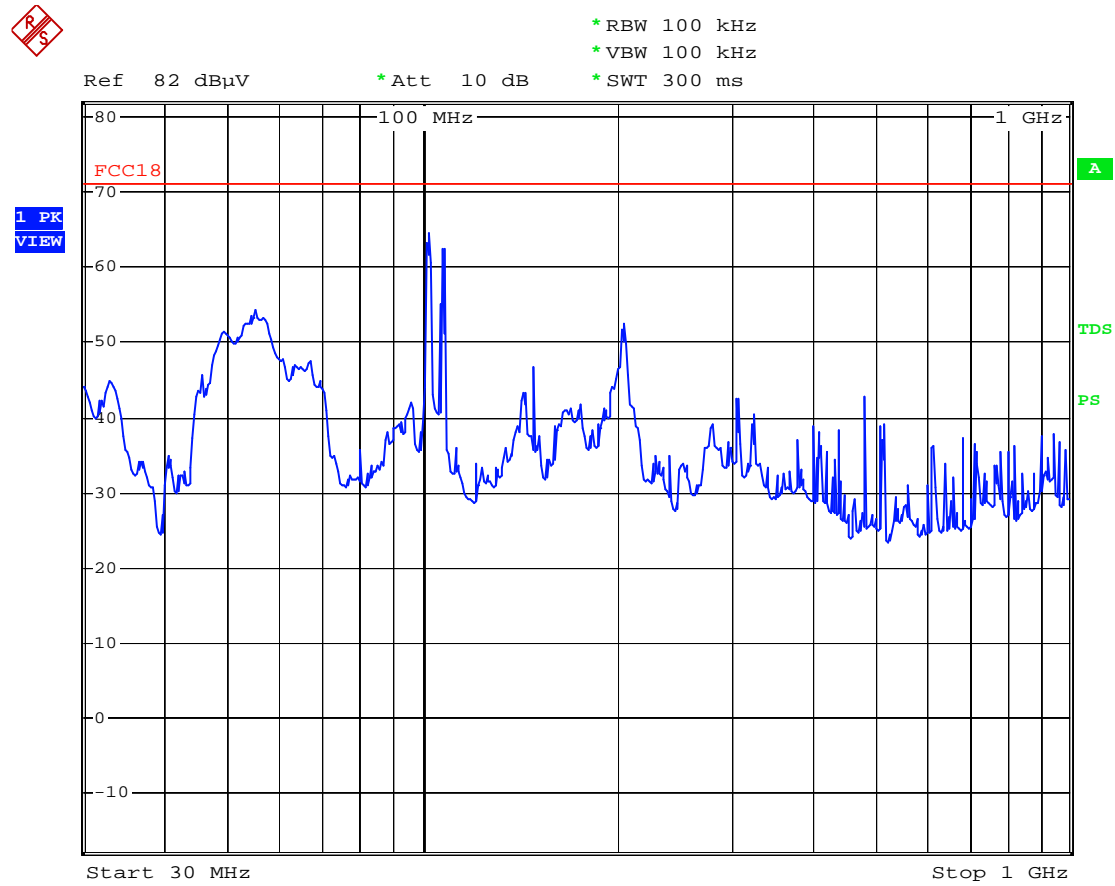


Whirlpool Microwave Oven GH7208X Series below 1G Radiation H

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Vertical:



Whirlpool Microwave Oven GH7208X Series below 1G Radiation V

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