

# FCC CLASS II PERMISSION CHANGE TEST REPORT

On Model Name: Microwave Oven

Model Numbers: XM720CYY-PM

Brand Name: Midea

FCC ID Number: VG8XM720CYY-PM

Prepared for Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co.,Ltd

According to

FCC Part 18(2010)

Industrial, Scientific and Medical Equipment

FCC/OST MP-5(1986)

FCC methods of measurements of radio noise emission from industrial, scientific and medical equipment

Test Report#: GUA-1112-10765-FCC

Prepared by: Sewen Guo
Reviewed by: Jawen Yin
QC Manager: Swall Zhang

Test Report Released by: Swell Zhang

January 16, 2012

Date

## List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	VG8XM720CYY-PM_Test report.PDF
Operation Description	Technical Description	VG8XM720CYY-PM_operation description. PDF
External Photos	External Photos	VG8XM720CYY-PM_External Photos.PDF
Internal Photos	Internal Photos	VG8XM720CYY-PM_Internal Photos.PDF
Block Diagram	Block Diagram	VG8XM720CYY-PM _Block diagram. PDF
Schematics	Circuit Diagram	VG8XM720CYY-PM _Schematics. PDF
ID Label/Location	Label and Location	VG8XM720CYY-PM _Label & Location. PDF
User Manual	User Manual	VG8XM720CYY-PM _User Manual. PDF
Test setup photos	Test setup photos	VG8XM720CYY-PM_Test Setup.PDF

#### **Test Location**

Tests performed in a Certified ANSI Semi-Anechoic Chamber and Shielded Room.

Test Site Location: GD WITOL VACUUM ELECTRONIC

EMC TEST LABORATORY

BeiJiao, Shun De, Foshan, Guang Don, 528311, China

Tel: (86)-757-26326917

Fax: (86)-757-26656995

## **Test Facility**

• FCC - Registration No.: 910385

GD WITOL VACUUM ELECTRONIC EMC TEST LABORATORY has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC was maintained in our files.

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## **Opinions and Interpretations**

This test report relates to the above mentioned equipment under test (EUT). Without the permission of ECMG Electronic Technical Testing Corp (Shenzhen) this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.

#### Statement of Measurement Uncertainty

The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

### Administrative Data

Test Sample : Microwave Oven

Model Numbers : XM720CYY-PM

Model Tested : EM720CWL-PM

Brand Name : Midea

Date of Receipt : January 8, 2012

Date Tested : January 10, 2012

Applicant : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co.,Ltd.

Address : No.6, Yong An Road, Beijiao, Shunde, Foshan.

Guangdong, 528311, China.

Manufacturer : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co., Ltd.

Address : No.6, Yong An Road, Beijiao, Shunde, Foshan.

Guangdong, 528311, China.

Factory : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co., Ltd.

Address : No.6, Yong An Road, Beijiao, Shunde, Foshan.

Guangdong, 528311, China.

## **EUT Description**

Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd., model tested EM720CWL-PM (referred to the eut in this report) is a microwave oven. The EUT main features are as belows:

Power Supply	120V~ 60Hz
Rated Input Power (Microwave)	1050W
Rated Output Power (Microwave)	700 W
Frequency	2450 MHz (Class B/Group 2)
Magnetron Model	2M217J
Magnetron Manufacturer	WITOL

For more informations please refer to user's manual of EUT.

#### **EUT Model Derived**

XM720CYY-PM model designations are as follows:

 $X=E \ or \ A$ ;

M: indicate microwave function;

720: "7" indicate the microwave output power is 700W, "20" indicate cavity capacity is 20 liters;

C: indicate the design No.;

YY= 0-9 or A-Z, indicate different appearance;

Model of EM720CWL-PM was selected for the final test.

## **Test Summary**

The electromagnetic compatibility requirements on model EM720CWL-PM for this test is stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

Emission Tests						
Specifications	Description	Test Results	Test Point	Remark		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Input Power Measurement	Passed	AC Input Port	Attachment 2		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	RF Output power Measurement	Passed	EUT	Attachment 3		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Operating Frequency Measurement	Passed	EUT	Attachment 4		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Conducted Emission	Passed	AC Input Port	Attachment 5		
FCC Part 18:2010 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiated Emission	Passed	Enclosure	Attachment 6		

## Load for Microwave Oven

For all measurements the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tag 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 1000watts 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 1000 watts. 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.
- -Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

#### **Equipment Modification**

Any modification installed previous to testing by Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd. will be incorporated in each production model sold or leased in United States.

There were no modifications installed by ECMG Electronic Technical Testing Corp(Shenzhen) test personnel.

## **EUT Sample Photos for Model EM720CWL-PM**



**EUT- Front View** 



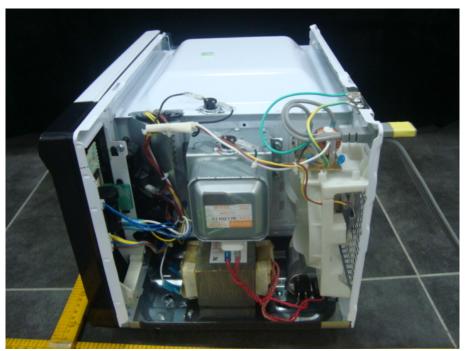
**EUT- Rear View** 



**Door Opened View** 



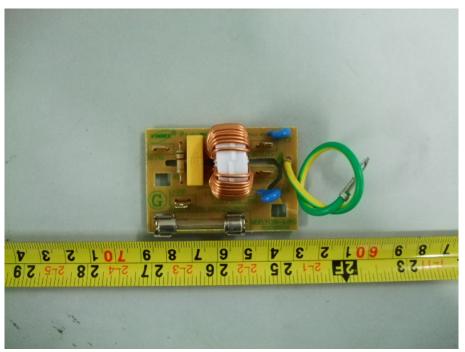
EUT- Inside View #1



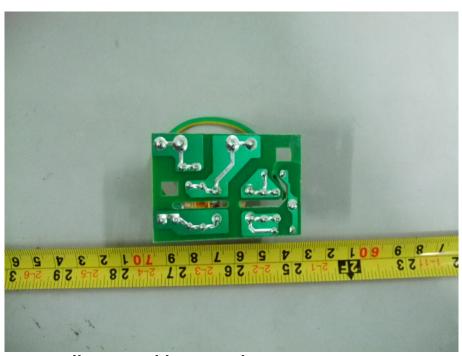
EUT- Inside View #2



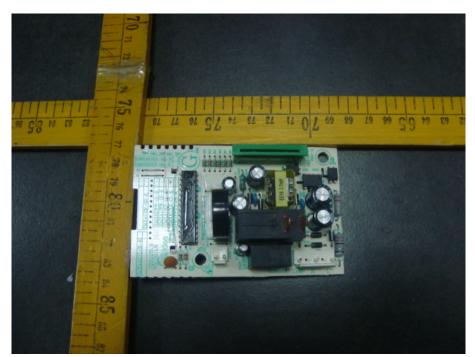
Magnetron View



Power Filter Board Top View



Power Filter Board bottom View



Motherboard top view

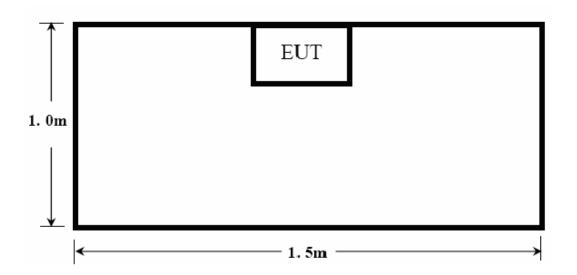


Motherboard bottom view

## **Test System Details**

EUT					
Model Numbers:	XM720C\	Y-PM			
Model Tested:	EM720CV	VL-PM			
Description:	Microwav	re Oven			
Manufacturer:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.				
		Suj	pport Equipment		
			N/A		
	Cable Description				
Description	From To Length (Meters) Shielded (Y/N) Ferrite (Y/N)				
Power Cable	EUT	Plug	1.20	N	N

## **Configuration of Tested System**



## ATTACHMENT 1 - RADIATION HAZARD TEST

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM720CYY-PM	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM720CWL-PM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	January 10, 2012		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MI	P-5:1986			
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 for Radiation Hazard Measurement. The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed. A 700ml water load in a beaker was located in the center of the oven and the Microwave Oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage.				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	There was no microwave leakage exceeding a power level of 0.01 mW/cm <sup>2</sup> observed at any point 5cm or more from the external surface of the oven.				
	A maximum of 1.0 mW/cm <sup>2</sup> is allowed in accordance with the applicable FCC standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed. The test results relate only to the equipment under test provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen) (China) test personnel.				
M. UNCERTAINTY:	0.0001 mW/cm <sup>2</sup>				

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Microwave Measurement	HOLADAY	HI-1710A	00052558	11/10/2011	11/09/2012

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

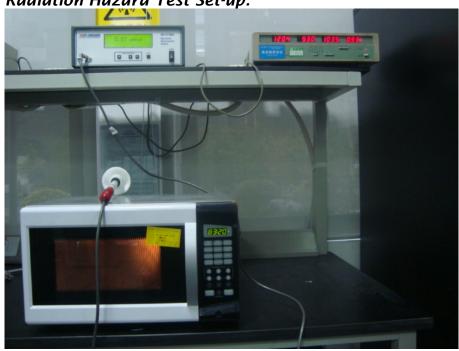
SIGNED BY:

**ENGINEER** 

REVIEWED BY:

**SENIOR ENGINEER** 

Radiation Hazard Test Set-up:



## ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM720CYY-PM	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM720CWL-PM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	January 10, 2012		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-	5:1986			
TEST PROCEDURE:	The EUT was set up according Measurement. The input power a 700ml water load in a beaker was Oven was set to maximum power ampmeter to test the AC input vol	and current was measu located in the center of . While the oven is ope	red using a power analyzer. A of the oven and the Microwave		
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	Based on the measured input power, the EUT was found to be operating within the intended specifications. The test results relate only to the equipment under test provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp(Shenzhen) (China) test personnel.				
M. UNCERTAINTY:	± 5W				

### Test Data:

Input Voltage	Input Current	Measured Input Power	Rated Input Power
(Vac/Hz)	(amps)	(watts)	(watts)
120.6	9.30	1036	1050

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8726C	058704195	08/13/2011	08/12/2012

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:

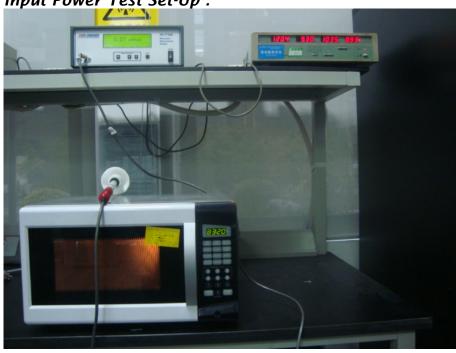
Jener

**ENGINEER** 

**REVIEWED BY:** 

SENIOR ENGINEER

Input Power Test Set-Up:



## ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM720CYY-PM	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM720CWL-PM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	January 10, 2012		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MI	P-5:1986			
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 for RF output power Measurement. The Caloric Method was used to determine maximum RF output power. The initial temperature of the water load was measured. A 1000ml water load in a beaker was located in the center of the oven. The oven was operated at maximum output power for 120 seconds, the temperature of the water was re-measured.  RF Output Power  = (4.2joules/calorie)(volume in milliliters)(temperature rise) / (time in seconds)  = 4.2 joules/calorie × 1000 × (Final Temp – Initial Temp) / 120				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	RF Output Power = 525 watts. The test results relate only to the equipment under test provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen).(China) test personnel.				
M. UNCERTAINTY:	± 0.3°C				

#### Test Data:

Quality of Water (ml)	Starting Temperature ( ${\mathcal C}$ )	Final Temperature (°C)	Elapsed Time (Seconds)	RF Output Power (watts)
1000	20.0	35.0	1205	525

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	10/26/2011	10/25/2012
Stopwatch	CASIO	HS-3	005Q08R	10/22/2011	10/21/2012

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

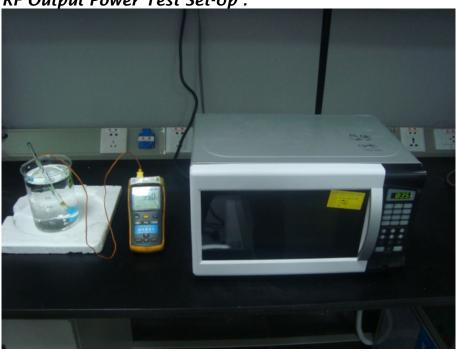
SIGNED BY:

**ENGINEER** 

**REVIEWED BY:** 

SENIOR ENGINEER

RF Output Power Test Set-Up:



## ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

		T	T		
CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM720CYY-PM	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM720CWL-PM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	January 10, 2012		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-	5:1986			
TEST PROCEDURE:	<ol> <li>The EUT was set up according to the FCC MP-5 and FCC Part 18 for Operating Frequency Measurement.</li> <li>The variation of frequency with time. The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000ml water load in a beaker was located in the center of the oven. Set a spectrum analyzer with antenna at 3 meters distance form 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.</li> <li>The variation of frequency with Line Voltage. The operating frequency was measured using a spectrum analyzer. 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.</li> </ol>				
TESTED RANGE:	2450 ± 50MHz				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	Please refer to following pages for details of the variation in operating frequency with time & line voltage measurement. The test results relate only to the equipment under test provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications ins (Shenzhen) (China) test personne		nic Technical Testing Corp		
M. UNCERTAINTY:	Freq. ±10kHz				

#### Test Data:

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2477.45	2479.46

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)					
2479.86	2480.66					
Note: Line voltage varied from 96Vac to 150Vac.						

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due			
EMI test receiver	R&S	ESI26	SB3436	01/25/2011	01/24/2012			
Horn Antenna	R&S	HF906	SB3435	01/25/2011	01/24/2012			
3m Semi-anechoic chamber	Albatross Projects	9x6x6	SB3450/01	03/21/2011	03/20/2012			

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:

ENGINEER

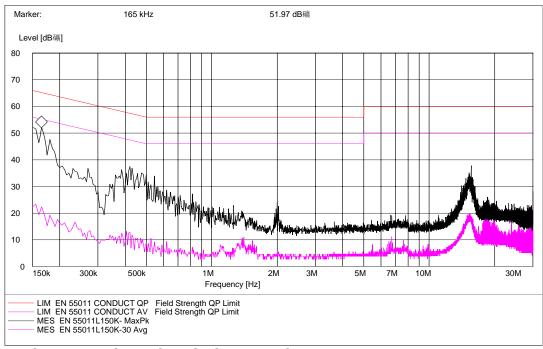
**REVIEWED BY:** 

**SENIOR ENGINEER** 

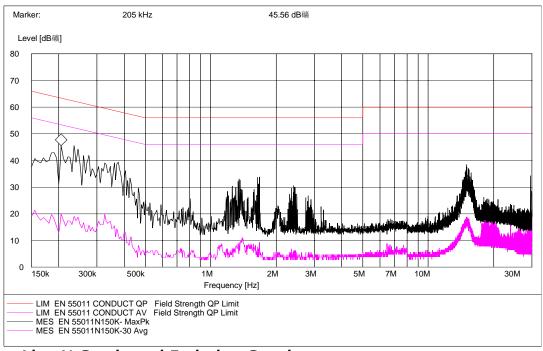
Operating Frequency Test Set-up:

## **ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS**

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	XM720CYY-PM	PRODUCT:	Microwave Oven			
MODEL TESTED:	EM720CWL-PM	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22℃	HUMIDITY:	60%RH			
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Sewen Guo	DATE OF TEST:	January 10, 2012			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986					
TEST PROCEDURE:	The EUT was set up according to conducted emissions. The meas receiver peak scan was made at significant peaks were then mark averaged. The frequency range in	urement was using a the frequency measu ed, and these signa	a AMN on each line and an EMI urement range. The six highest is were then quasi-peaked and			
TESTED RANGE:	150kHz to 30MHz					
TEST VOLTAGE:	120VAC / 60Hz					
RESULTS:	The EUT meets the requirements of test reference for conducted emissions. The test results relate only to the equipment under test provided by client.					
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen). (China) test personnel.					
M. UNCERTAINTY:	±2.5 dB					



Line L Conducted Emission Graph



Line N Conducted Emission Graph

#### Test Data:

Lines (L/N)	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Margin QP(dB)	Corrected AV Level (dBuV)	Limits AV (dBuV)	Margin QP (dB)
L	0.165	39.8	65.2	-25.4	15.4	55.2	-39.8
L	0.180	38.4	64.5	-26.1	13.1	54.5	-41.4
L	0.479	29.0	56.4	-27.4	6.3	46.4	-40.1
N	0.205	35.1	63.4	-28.3	13.4	53.4	-40.0
N	0.235	35.0	62.3	-27.3	13.4	52.3	-38.9
N	0.375	30.8	58.4	-27.6	8.3	48.4	-40.1

## Note:

<sup>1)</sup> All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not use.

<sup>2) &</sup>quot;QP" means "Quasi-Peak" values, "AV" means "Average" values.

<sup>3)</sup> The other reading are too low against official limits that are not be recorded.

**Test Equipments List:** 

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/19/2011	11/18/2012
LISN	R&S	ESH2-Z5	100091	11/19/2011	11/18/2012
Transient Limiter	Agilent	11947A	3107A0364 8	11/19/2011	11/18/2012
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2011	04/16/2012

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:

Jenerans

**ENGINEER** 

REVIEWED BY:

**SENIOR ENGINEER** 

**Conducted Emission Test Set-up:** 



## **ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS**

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM720CYY-PM	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM720CWL-PM	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	January 10, 2012		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP	2-5:1986			
TEST PROCEDURE:	radiated emissions. Microwave The top of the table is 1.0 m about metal turntable. An EMI receive range (pre-scan) in an Anechoic the significant peaks marked. All 30 MHz to 1GHz and average de The following data lists the significant peaks.	Oven was placed on ove the ground. The transport peak scan was made chamber. Signal discount data was recorded interested in the state of the state	ncies, measured levels, correction tors), and the corrected readings		
TESTED RANGE:	30MHz to 24.5GHz				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	The EUT meets the requirements of test reference for radiated emissions. The test results relate only to the equipment under test provided by client.				
CHANGES OR MODIFICATIONS:	There were no modifications ir (Shenzhen) (China) test personn		lectronic Technical Testing Corp		
M. UNCERTAINTY:	± 3.2 dB				

## Field strength limits for out-of-band emissions:

For RF output power <500W, Limit at 300m = 27.96dBuV/mFor RF output power>500W, Limit at 300m = 20log[25\*SQRT(Power/500)]dBuV/m

Test Data:

	30MHz - 1GHz							
Frequency [MHz]	Antenna Polarization [V/H]	Reading Level [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]		
224.389	н	5.4	14.6	20.0	-48.2	68.2		
369.236	Н	5.4	14.8	20.2	-48.0	68.2		
432.385	Н	6.2	16.7	22.9	-45.3	68.2		
173.848	V	7.9	11.2	19.1	-49.1	68.2		
245.722	V	<i>5.7</i>	13.7	19.4	-48.8	68.2		
508.196	V	<i>5.7</i>	17.8	23.5	-44.7	68.2		

Note: 1) All readings are quasi-peak unless stated otherwise, using a bandwidth of 120kHz, with a 60s sweep time. A video filter was not used. 2) Field Strength = Reading Level + Factor, Factor = Antenna Factor + Cable Loss

1 GHz - 25 GHz								
Frequency [GHz]	Antenna Polarization [V/H]	Reading Level [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]		
9.924	н	21.3	28.1	49.4	-18.8	68.2		
14.884	Н	19.2	35.3	54.5	-13.7	68.2		
17.329	Н	12.7	44.2	56.9	-11.3	68.2		
9.924	V	19.1	28.1	47.2	-21.0	68.2		
14.894	V	21.0	35.3	56.3	-11.9	68.2		
17.739	V	10.4	46.8	57.2	-11.0	68.2		

Note: 1) All readings are average unless stated otherwise, using a bandwidth of 1MHz, with a 60s sweep time. A video filter was not used. 2) Field Strength = Reading Level + Factor, Factor = Antenna Factor + Cable Loss - Preamp Factor.

**Test Equipments List:** 

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/19/2011	11/18/2012
Horn Antenna	R&S	HF906	100311	11/21/2011	11/20/2012
Amplifiler	Agilent	83017A	N/A	11/21/2011	11/20/2012
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130144	11/21/2011	11/20/2012
Anechoic Chamber	TDK	9m×6 m×5.7m	N/A	04/17/2011	04/16/2012

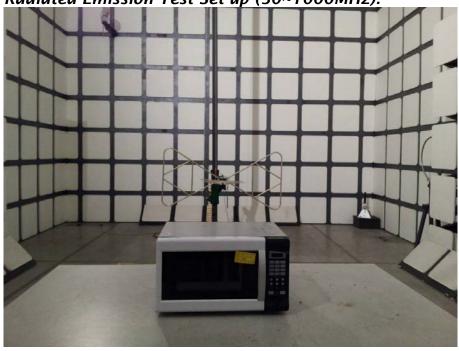
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

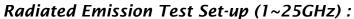
SIGNED BY:

REVIEWED BY:

SENIOR ENGINEER

Radiated Emission Test Set-up (30~1000MHz):







Test Report #: GUA-1112-10765-FCC
Prepared for Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd
Prepared by ECMG Electronic Technical Testing Corp (Shenzhen). Page 30 of 30