

EMI TEST REPORT

On Model Name: Microwave Oven
Model Number: XC042AYY-S
Brand Name: Midea
Prepared for Guangdong Midea Microwave and Electrical Appliances Manufacturing Co., Ltd
FCC ID Number: VG8XC042AYY
According to FCC Part 18(2012) 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-1210-10901-FCC
Tested by: Sewen Guo/Engineer Company Name
Reviewed by: ECMG Jawen Yin/Senior Engineer Company Name
QC Manager: ECMG Swall Zhang/QC Manager Company Name
Test Report Released by: Swall Zhang November 2 nd , 2012

Test Location

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

Test Site Location : GD WILOT VACUUM ELECTRONIC EMC

TEST LABORATORY

BeiJiao, ShunDe, FoShan, Guang Dong,

528311, China

Tel : (86)-757-26326917

Fax : (86)-757- 22607341

Test Facility

The test facility was recognized, certified, or accredited by the following organizations:

FCC - Registration No.: 910385

GD WILOT 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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List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	VG8XC042AYY _Test Report.pdf
Operation Description	Technical Description	VG8XC042AYY _Operation Description.pdf
External Photos	External Photos	VG8XC042AYY _External Photos
Internal Photos	Internal Photos	VG8XC042AYY _Internal Photos
Block Diagram	Block Diagram	VG8XC042AYY _Block Diagram.pdf
Schematics	Circuit Diagram	VG8XC042AYY _Schematics.pdf
ID Label/Location	Label and Location	VG8XC042AYY _Label & Location.pdf
User Manual	User Manual	VG8XC042AYY _User's Manual.pdf
Test set-up photos	Test set-up photos	VG8XC042AYY _Test Set-up Photos

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Opinions and Interpretations

This test report relates to the abovementioned equipment under test (EUT). Without the permission of ECMG Electronic Technical Testing Corp (Shenzhen). Test Lab 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 : XC042AYY-S

Model Tested : EC042AYY-S

Brand Name : Midea

Receipt Date : October 30th, 2012

Date Tested : October 30th, 2012 to November 1st, 2012

Applicant : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co.,Ltd

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

Manufacturer : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co.,Ltd

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

Factory : Guangdong Midea Microwave and Electrical

Appliances Manufacturing Co.,Ltd

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

EUT Description

Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd. model tested EC042AYY-S (referred to as the EUT in this report) is a Microwave Oven.

The technical specifications of EUT are as below:

Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1500W
Rated Output Power (Microwave)	1000W
Rated Input Power(Grill):	1300W
Rated Input Power(Convection):	1400W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2M319J
Magnetron Manufacturer	WITOL

NOTE: For more detailed information or features please refer to user's manual of EUT.

EUT Model Derived

XC042AYY-S model designations are as follows:

X: E or A;

C: Indicate Microwave and Grill and Convection;

042: "0" indicate the microwave output power is 1000W, "42" indicate cavity capacity is 42 liters;

A: indicate the design No.;

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

S: Steel cavity.

Test Summary

The electromagnetic compatibility requirements on model EC042AYY-S for this test are 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 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2009	Input Power Measurement	Passed	AC Input Port	Attachment 2
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2009	RF Output power Measurement	Passed	EUT	Attachment 3
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2009	Operating Frequency Measurement	Passed	EUT	Attachment 4
FCC Part 18:2012 FCC/OST MP-5:1986 ANSI C63.4-2009	Conducted Emission	Passed	AC Input Port	Attachment 5
FCC Part 18:2012 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.

EUT Exercise Software

No test sofware support this test.

Equipment Modification

Any modifications 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 EC042AYY-S



EUT Front View



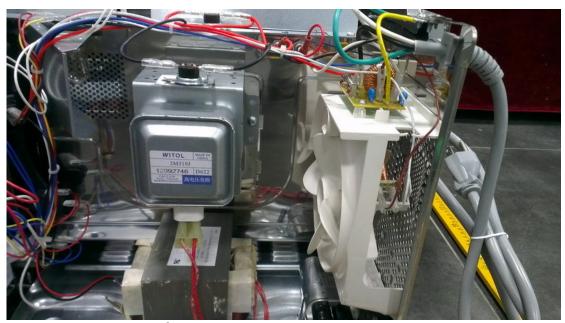
EUT Back View



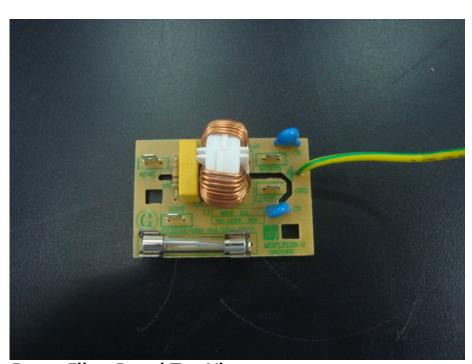
Door Opend View



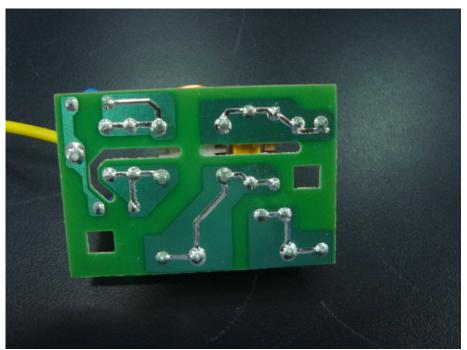
EUT Uncovered View



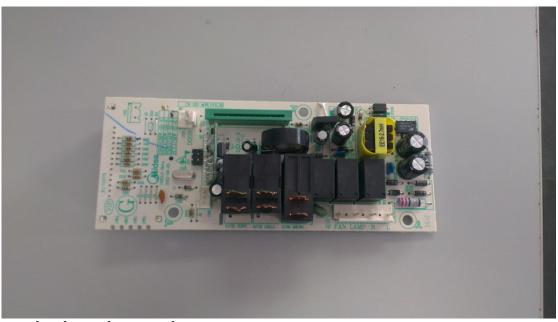
Magnetron Front View



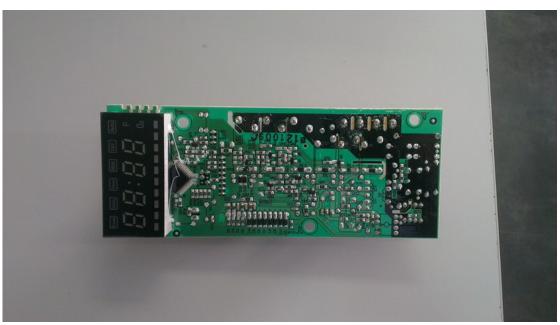
Power Filter Board Top View



Power Filter Board Bottom View



Motherboard Top View



Motherboard -Bottom View

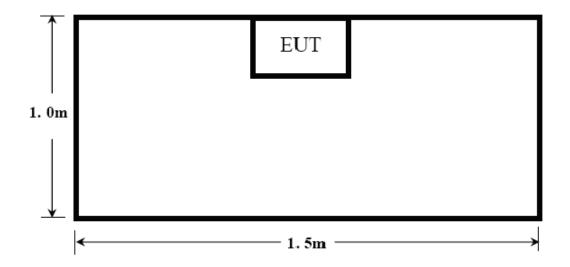
Test System Details

			EUT			
Model Number:	XC04	2AYY-S				
Model Tested:	EC04	2AYY-S				
Description:	Micro	owave Oven				
Input:	AC 1	20V/60Hz				
Manufacturer:		gdong Midea N Ifacturing Co.,	Microwave and Ltd	Electrica	al Applia	nces
		Suppor	t Equipment			
Description	М	odel Number	Serial Num	ıber	Ма	nufacturer
	1	,	N/A			
		Cable	Description			
Description	From	То	Length (Meters)		elded /N)	Ferrite (Y/N)
Power Cable	EUT Plug 1.2 N N					N

Note:

The EUT has been tested as an independent unit together with other necessary accessories or support units. The above support units or accessories were used to form a representative test configuration during the test tests.

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:	XC042AYY-S	PRODUCT:	Microwave Oven	
MODEL TESTED:	EC042AYY-S	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22°C	HUMIDITY:	51%	
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	October 30 nd ,2012	
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-	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 microwavemeter will check the leakage and then record the maximum leakage.			
TESTED RANGE:	N/A			
TEST VOLTAGE:	AC 120V/60Hz			
RESULTS:	There was no microwave leakage exceeding a power level of 0.11mW/cm² observed at any point 5cm or more from the external surface of the oven. A maximum of 1.0 mW/cm² 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) test personnel.			
M. UNCERTAINTY:	0.0001mW/cm ²			

Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
Microwave Measurement	HOLADAY	HI-1710A	00122261	2012.08.20	2013.08.21

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).

TESTED BY: Severaus ECMG
ENGINEER COMPANY NAME

REVIEWED BY: ECMG
SENIOR ENGINEER COMPANY NAME



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:	XC042AYY-S	PRODUCT:	Microwave Oven	
MODEL TESTED:	EC042AYY-S	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	21℃	HUMIDITY:	69%	
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	October 30 th ,2012	
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986			
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 for input power measurement. The input power and current was measured using a power analyzer. 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 is operating, use a voltmeter and an ampmeter to test the AC input voltage and current.			
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) test personnel.			
M. UNCERTAINTY:	± 5W			

Test Data:

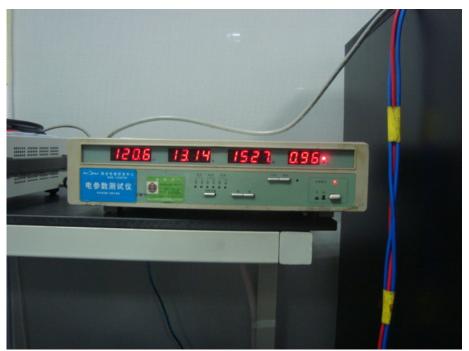
Input Voltage	Input Current	Measured Input	Rated Input
(Vac/Hz)	(amps)	Power(watts)	Power(watts)
120.6	13.14	1527	1500

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8726C	058704195	10/10/2011	10/11/2012

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).

TESTED BY:	Soverano	ECMG
	ENGINEER	COMPANY NAME
	Y: SENIOR ENGINEER	
REVIEWED B	Y:	ECMG
	SENIOR ENGINEER	COMPANY NAME



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:	XC042AYY-S	PRODUCT:	Microwave Oven			
MODEL TESTED:	EC042AYY-S	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22℃	HUMIDITY:	60%RH			
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Sewen Guo	DATE OF TEST:	October 30 th ,2012			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-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 =843.5watts. 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) test personnel.					
M. UNCERTAINTY:	± 0.3℃					

Test Result:

Quality of	Starting	Final	Elapsed Time	RF Output
Water(ml)	Temperature (${\mathcal C}$)	Temperature (${\mathcal C}$)	(Seconds)	Power(watts)
1000	20.0	44.1	1205	843.5

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	5/21/2012	5/22/2013
Stopwatch	JUNSD	JS-306	080303	8/5/2012	8/6/2013

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).

TESTED BY:	Severano	ECMG
_	ENGINEER	COMPANY NAME
	Janenym	
REVIEWED BY: _	0 •	<u>ECMG</u>
	SENIOR ENGINEER	COMPANY NAME



RF Output Power Test Set-Up

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co., Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	XC042AYY-S	PRODUCT:	Microwave Oven			
MODEL TESTED:	EC042AYY-S	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:	November 1 th ,2012			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-	5:1986				
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18 for Operating Frequency Measurement. 1) 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. 2) 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.					
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 installed by ECMG Electronic Technical Testing Corp (Shenzhen) test personnel.					
M. UNCERTAINTY:	Freq. ±10kHz					

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2450.6	2485.8

Variation in Operating Frequency with Line Voltage:

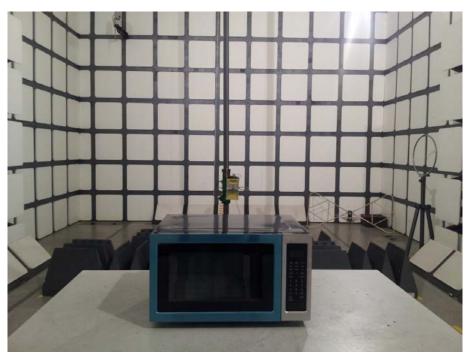
Minimum Frequency (MHz)	Maximum Frequency (MHz)
2438.9	2486.2
Note: Line voltage varied from 96Vac to 150Vac.	

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/18/2011	11/17/2012
Horn Antenna	R&S	HF906	100311	11/20/2011	11/21/2012

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).

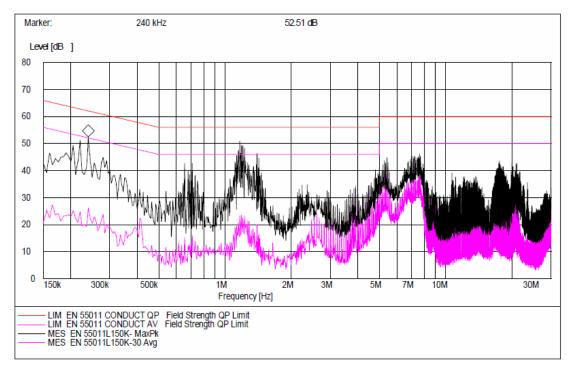
TESTED BY:	Severano	ECMG
	ENGINEER	COMPANY NAME
	Jamenym SENIOR ENGINEER	
REVIEWED BY: _		ECMG
S	SENIOR ENGINEER	COMPANY NAME



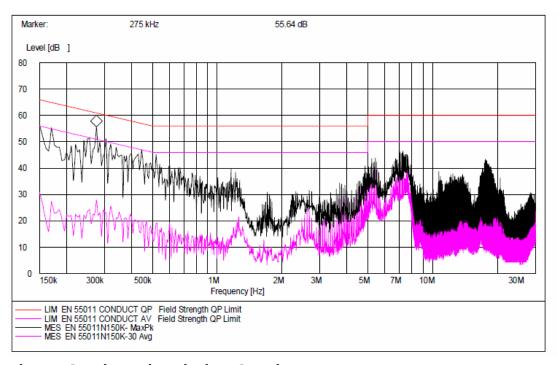
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co., Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	XC042AYY-S	PRODUCT:	Microwave Oven			
MODEL TESTED:	EC042AYY-S	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22℃	HUMIDITY:	64%RH			
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Sewen Guo DATE OF TEST:		November 1 st ,2012			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986					
TEST PROCEDURE:	The EUT was set up according to for conducted emissions. The meaning the EMI receiver peak scan was made highest significant peaks were the ked and averaged. The frequency	asurement was using a e at the frequency meas on marked, and these si	AMN on each line and an surement range. The six gnals were then quasi-pea			
TESTED RANGE:	150kHz to 30MHz					
TEST VOLTAGE:	120VAC / 60H					
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) 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)	Frequency (MHz)	Corrected AV Level (dBuV)	Limits AV (dBuV)	Margin QP (dB)
L	0.240	44.3	62.1	-17.8	0.240	18.7	52.1	-33.4
L	0.220	42.5	62.8	-20.3	0.220	19.2	52.8	-33.6
L	1.160	<i>35.7</i>	56	-20.3	1.160	15.3	46	-30.7
N	0.155	46.5	<i>65.7</i>	-19.2	0.155	21.5	<i>55.7</i>	-34.2
N	0.173	44.3	64.8	-20.5	0.173	19.2	54.8	-35.6
N	0.325	<i>45.7</i>	59.6	-13.9	0.325	20.5	49.6	-29.1

Note:

- All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not use.
 "QP" means "Quasi-Peak" values, "AV" means "Average" values.
- 3) 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	3107A03648	11/19/2011	11/18/2012
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2012	04/16/2013

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).

TESTED BY:	ECMG	
ENGINEER	COMPANY NAME	
REVIEWED BY:		
REVIEWED BY:	ECMG	
SENIOR ENGINEER	COMPANY NAME	



Conducted Emission Test Set-up

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

	0 1 14:1			
CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XC042AYY-S PRODUCT:		Microwave Oven	
MODEL TESTED:	EC042AYY-S EUT DESIGNATION		Home or Office	
TEMPERATURE:	22 ℃	HUMIDITY:	63%RH	
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	November 1 st ,2012	
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-5:1986			
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4-2009& FCC MP-5 for radiated emissions. Microwave Oven was placed on a 1m *1.5m nonconductive table. The top of the table is 1.0 m above the ground. The table is placed on a flush mounted metal turntable. An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked. All data was recorded in Quasipeak detection mode from 30 MHz to 1GHz and average detector mode above 1GHz. The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows: FS= RA + AF + CF - AG Where: FS = Field Strength RA = Receiver Amplitude AF = Antenna Factor CF = Cable Attenuation Factor AG = Amplifier Gain			
TESTED RANGE:	30MHz to 24.5GHz			
TEST VOLTAGE:	120VAC / 60Hz			
RESULTS:	The EUT meet 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 installed by ECMG Electronic Technical Testing Corp (Shenzhen) test personnel.			
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]	Corrected Reading [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]
500.421	V	12.9	17.5	30.4	-39.8	70.2
685.090	V	9.7	23.4	33.1	-37.1	70.2
735.631	V	10.6	23.7	34.3	-35.9	70.2
259.379	Н	12.8	12.9	25.7	-44.5	70.2
224.389	Н	10.2	14.6	24.8	-45.4	70.2
675.371	Н	8.6	22.9	31.5	-38.7	70.2

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 = Read Level + Factor, Factor = Antenna Factor + Cable Loss - Preamp Factor.

1GHz - 25GHz						
Frequency [GHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, AV [dB]	3 Meters Limits [dBµV/m]
4.924	V	29.45	18.75	48.2	-22.0	70.2
7.359	V	19.07	21.73	40.8	-29.4	70.2
8.321	V	29.88	22.42	52.3	-17.9	70.2
4.894	Н	20.68	18.52	39.2	-31.0	70.2
7.359	Н	18.37	21.73	40.1	-30.1	70.2
8.351	Н	28.28	22.42	50.7	-19.5	70.2

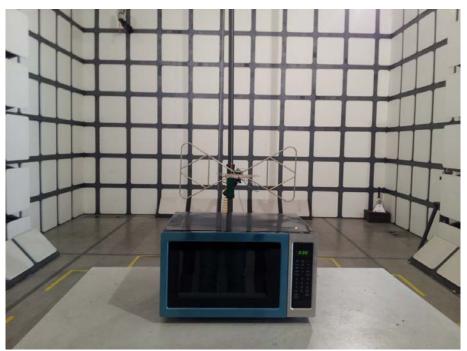
Note: 1) All readings are average unless stated otherwise, using a bandwidth of 1MHz, with a 60s sweep time. A video filter was not used. 2) Field Strength = Read Level + Factor, Factor = Antenna Factor + Cable Loss - Preamp Factor.

Test Equipments List:

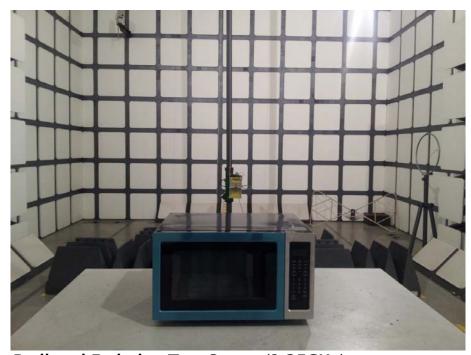
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26	100174	11/19/2011	11/18/2012
Horn Antenna	R&S	HF906	100311	11/21/2011	11/20/2012
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130144	11/21/2011	11/20/2012
Loop Antenna	ETS	ETS-6152	24934	11/21/2011	11/20/2012
Anechoic Chamber	TDK	9m×6 m×5.7m	N/A	04/17/2012	04/16/2013

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).

TESTED BY:	Soverano	ECMG		
	ENGINEER	COMPANY NAME		
	y Janemym			
REVIEWED B	Y:	ECMG		
	SENIOR ENGINEER	COMPANY NAME		



Radiated Emission Test Set-up (30 -1,000MHz)



Radiated Emission Test Set-up (1-25GHz)