

EMI TEST REPORT

On Model Name: Microwave Oven
Model Number: AM925AYY-P1
Brand Name: Midea
Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
FCC ID Number: VG8AM925AYY
According to FCC Part 18(2014) 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-1410-11253-FCC
Tested by: <u>ECMG</u> Sewen Guo/Engineer Company Name
Reviewed by: <u>ECMG</u> Jawen Yin/Senior Engineer Company Name
QC Manager: <u>ECMG</u> Swall Zhang/QC Manager Company Name
Test Report Released by: December 5 th ,2014 Swall Zhang Date

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,GuangDong, 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	VG8AM925AYY_Test Report_rev01.pdf
Operation Description	Technical Description	VG8AM925AYY_Operation Description.pdf
External Photos	External Photos	VG8AM925AYY_External Photos.pdf
Internal Photos	Internal Photos	VG8AM925AYY_Internal Photos_rev01.pdf
Block Diagram	Block Diagram	VG8AM925AYY_Block Diagram.pdf
Schematics	Circuit Diagram	VG8AM925AYY_Schematics_rev01.pdf
ID Label/Location	Label and Location	VG8AM925AYY_Label & Location.pdf
User Manual	User Manual	VG8AM925AYY_User's Manual.pdf
Test set-up photos	Test set-up photos	VG8AM925AYY_Test Set-up Photos_rev01.pdf

Government Disclaimer Notice

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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	: AM925AYY-P1
Model Tested	: AM925A4P-P1
Brand Name	
Receipt Date	: November 30 th , 2014
Date Tested	: December 2 nd , 2014
Applicant	: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
Address	No.6, Yong An Road, Beijiao, Shunde,Foshan.
Telephone	: (86)-757-23306480
Fax	: (86)-757-22607341
Manufacturer	: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
Address	No.6, Yong An Road, Beijiao, Shunde,Foshan.
Telephone	: (86)-757-23306480
Fax	: (86)-757-22607341
Factory	: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
Address	No.6, Yong An Road, Beijiao, Shunde,Foshan.
Telephone	: (86)-757-23306480
Fax	: (86)-757-22607341

EUT Description

Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd., model tested AM925A4P-P1 (referred to as the EUT in this report) is an Microwave Oven.

Power Supply	120V AC/60Hz
Rated Input Power (Microwave)	1350W
Rated Output Power (Microwave)	900W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2М219Ј
Magnetron Manufacturer	WITOL

The technical specifications of EUT are as below:

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

EUT Model Derived

AM925AYY-P1 model designations as follows:

A: Electronic Controller Button type keypad;

M: Indicate microwave function;

925: "9" indicate the microwave output power is 900W, "25" indicate cavity capacity is 25 liters;

A: indicate Design No.;

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

P1: Indicate "With magnetron thermostat".

Model AM925A4P-P1 was selected for the final testing.

Test Summary

The electromagnetic compatibility requirements on model AM925A4P-P1 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 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1		
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Input Power Measurement	Passed	AC Input Port	Attachment 2		
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	RF Output power Measurement	Passed	ΕυΤ	Attachment 3		
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Operating Frequency Measurement	Passed	EUT	Attachment 4		
FCC Part 18:2014 FCC/OST MP-5:1986 ANSI C63.4-2009	Conducted Emission	Passed	AC Input Port	Attachment 5		
FCC Part 18:2014 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 Kitchen 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 -Front View



EUT -Rear View



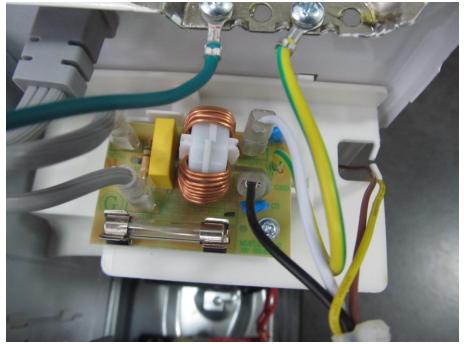
Door Opend View



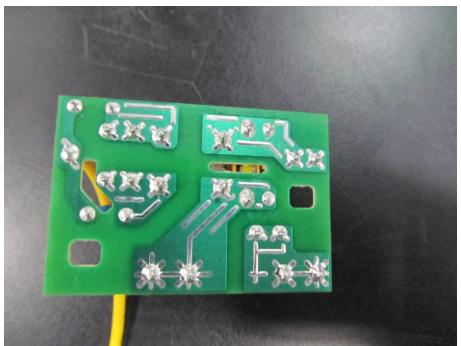
Inside View



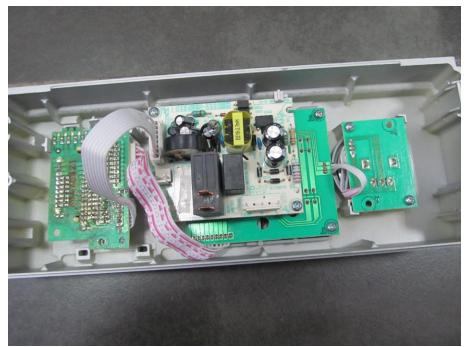
Magnetron Front View



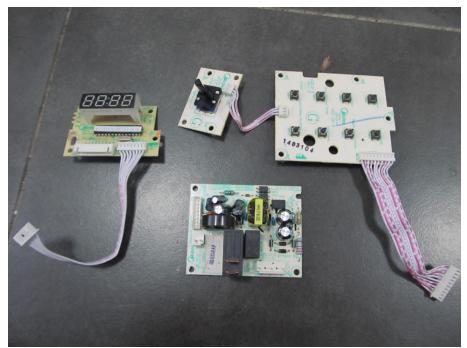
Power Filter Board Top View



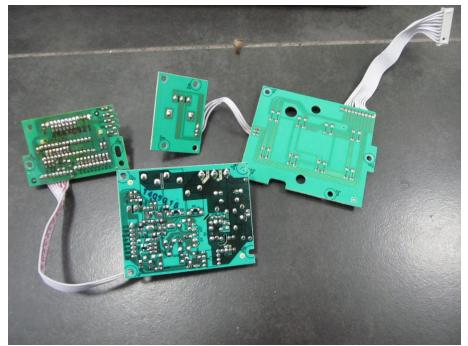
Power Filter Board Bottom View



Mother board&power boad view



Mother board+Power board – PCB Top View



Mother board+power board - PCB Bottom View

FCC Test Report #: GUA-1410-11253-FCC Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).

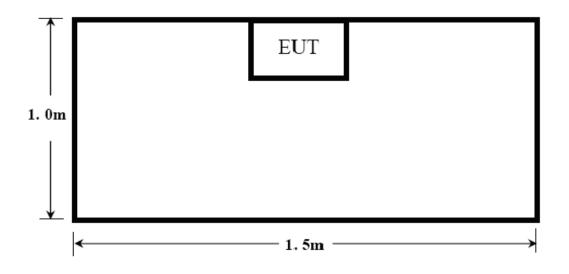
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Test System Details

EUT							
Model Number	: A	M925A)	′Y-P1				
Model Tested:	4	M925A4	IP-P1				
Description:	٨	<i>Aicrowa</i> v	re Oven				
Input:	4	AC 120V	/60Hz				
Manufacturer:	0	Guangdo	ng Midea I	Kitchen Appliand	es Manı	ıfacturir	ng Co.,Ltd.
Support Equipment							
Descriptio	n	Model Number Serial Number Manufacturer					
				N/A			
			Cable	Description			
Description	Erom To				Ferrite (Y/N)		
Power Cable	E	UT	Plug	1.2	1	V	Ν
Note:The "EUT" n	neans "N	1icrowav	e Oven".		I		

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.



ATTACHMENT 1 - RADIATION HAZARD TEST

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM925AYY-P1	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM925A4P-P1	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:	December 2 nd ,2014		
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 0.14 mW/cm ² observed at any point 5cm or more from the external surface of the oven. A maximum of 1.0 mW/cm ² 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	2014.10.24	2015.10.23	
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:

Sevencius ENGINEER

ECMG COMPANY NAME

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ECMG COMPANY NAME



Radiation Hazard Test Set-up

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM925AYY-P1	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM925A4P-P1	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:	December 2 nd ,2014		
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. An 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)
120.7	11.89	1369	1350

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due	
Power Meter	Ainuo	AN8726C	058704200	04/09/2014	04/08/2015	
Note: All testing were nerformed using internationally recognized standards. All test instruments were						

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:

Seventrus ENGINEER

ECMG COMPANY NAME

Vino **REVIEWED BY:**

SENIOR ENGINEER

ECMG COMPANY NAME



Input Power Test Set-Up

ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM925AYY-P1	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM925A4P-P1	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 °C	HUMIDITY:	60%RH		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	December 2 nd ,2014		
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)				
TESTED RANGE:	N/A				
TEST VOLTAGE:	120VAC / 60Hz				
RESULTS:	RF Output Power = 763.0 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) test personnel.				
M. UNCERTAINTY:	±0.3℃				

Test Result:

Quality of	Starting	Final	Elapsed Time	RF Output
Water(ml)	Temperature (℃)	Temperature (で)	(Seconds)	Power(watts)
1000	20.0	41.8	120s	763.0

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	5/21/2014	5/22/2015
Stopwatch	CASIO	HS-3	312Q01	5/21/2014	5/22/2015

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:

Sever Gross ENGINEER

ECMG COMPANY NAME

REVIEWED BY:

SENIOR ENGINEER

ECMG COMPANY NAME



RF Output Power Test Set-Up

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	AM925AYY-P1	PRODUCT:	Microwave Oven	
MODEL TESTED:	AM925A4P-P1	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:	December 2 nd ,2014	
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST	MP-5:1986		
TEST PROCEDURE:	The EUT was set up accordir Frequency Measurement. 1) The variation of frequency us ing a spectrum analyzer. S water load in a beaker was lo analyzer with antenna at 3 m operated at maximum output monitored until the water load 2) The variation of frequency measured using a spectrum a 10 minutes of use with a 100 of the test. Then the operatin varied between 80 and 125 p	with time. The operating from Starting with the EUT at rock to ated in the center of the operation eters distance form the over power. The fundamental of d was reduced to 20 percert with Line Voltage. The operation analyzer. The EUT was operation om I water load at room terr g frequency was monitored	equency was measured im temperature, a 1000ml iven. Set a spectrum in and the oven was perating frequency was not of the original load. erating frequency was erated/warmed by at least inperature at the beginning d as the input voltage was	
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)
2452.2	2453.8

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2450.2	2453.4
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	11/18/2014	11/17/2015	
Horn Antenna	R&S	HF906	100311	11/20/2014	11/21/2015	
Note: All testing were performed using internationally recognized standards. All test instruments						

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:

Jener Grus ENGINEER

ECMG COMPANY NAME

REVIEWED BY:

SENIOR ENGINEER

ECMG COMPANY NAME

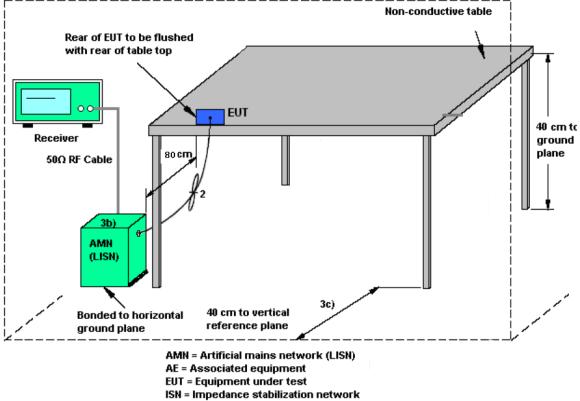


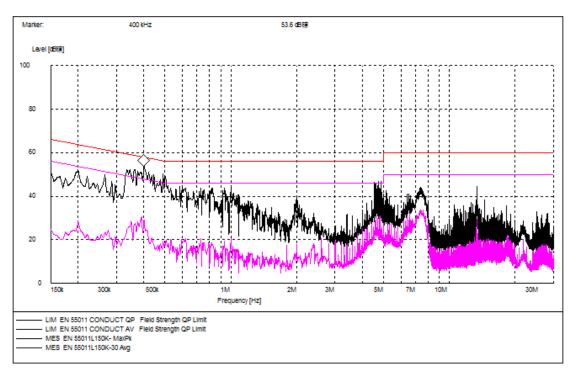
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

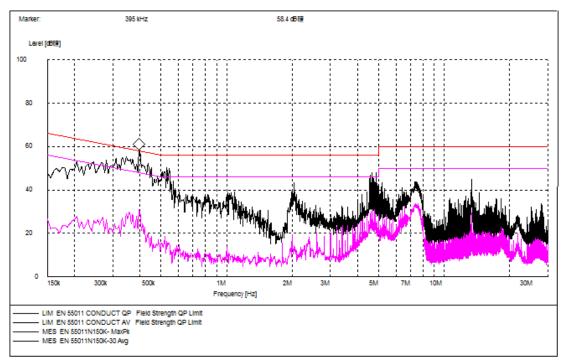
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM925AYY-P1	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM925A4P-P1	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 °C	HUMIDITY:	64%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	December 2 nd ,2014		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up accordir for conducted emissions. The an EMI receiver peak scan w six highest significant peaks quasi-peaked and averaged. 150kHz to 30MHz.	e measurement was usin as made at the frequency were then marked, and th	g a AMN on each line and measurement range. The lese signals were then		
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

FCC Test Report #: GUA-1410-11253-FCC Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).

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	0.245	43.2	61.4	-18.2	0.245	24.2	51.4	-27.2
L	0.405	48.7	57.8	-9.1	0.405	28.6	47.8	-19.2
L	4.985	37.6	56	-18.4	4.985	21.4	46	-24.6
N	0.190	39.2	61.6	-22.4	0.190	20.8	51.6	-30.8
N	0.405	47.6	57.8	-10.2	0.405	28.2	47.8	-19.6
Ν	4.985	37.3	56	-18.7	4.985	21.1	46	-24.9

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. 1)

2)

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	11/19/2014	11/18/2015
LISN	R&S	ESH2-Z5	100091	11/19/2014	11/18/2015
Transient Limiter	Agilent	11947A	3107A03648	11/19/2014	11/18/2015
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2014	04/16/2015
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 ENGINEER

ECMG COMPANY NAME

REVIEWED BY: (

SENIOR ENGINEER

ECMG COMPANY NAME

FCC Test Report #: GUA-1410-11253-FCC Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd. Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).

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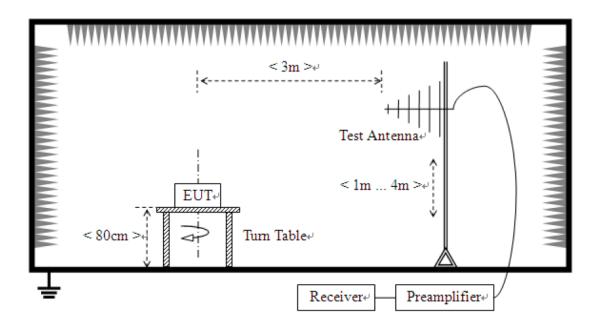


Conducted Emission Test Set-up

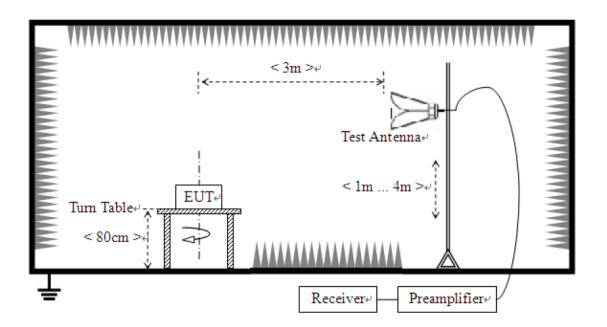
ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

		Ι			
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	AM925AYY-P1	PRODUCT:	Microwave Oven		
MODEL TESTED:	AM925A4P-P1	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 °C	HUMIDITY:	63%RH		
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	December 2 nd ,2014		
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according 5 for radiated emissions. Mich nonconductive table. The top placed on a flush mounted m made at the frequency meas Signal discrimination was the data was recorded in Quasi- average detector mode above The following data lists the si- correction factors (including of corrected readings against the 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	rowave Oven was placed of the table is 1.0 m abo netal turntable. An EMI re surement range (pre-scar en performed and the sig peak detection mode from e 1GHz. ignificant emission freque cable and antenna correct ne limits. Explanation of th	d on a 1m *1.5m ove the ground. The table is ceiver peak scan was n) in an Anechoic chamber. nificant peaks marked. All n 30 MHz to 1GHz and encies, measured levels, ction factors), and the		
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				

For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



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Field strength limits for out-of-band emissions :

For RF output power <500W, Limit at 300m = 27.96dBuV/m For 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]	
278.818	Н	18.8	13.2	32.0	-37.8	69.8	
325.471	Н	15.9	13.5	29.4	-40.4	69.8	
445.192	Н	16.2	21.6	37.8	-32.0	69.8	
405.170	V	14.5	15.9	30.4	-39.4	69.8	
531.523	V	10.9	18.8	29.7	-40.1	69.8	
615.371	V	12.6	21.5	34.1	-35.7	69.8	

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]
8.824	Н	29.10	24.6	53.7	-16.1	69.8
9.824	Н	22.03	28.07	50.1	-19.7	69.8
17.098	Н	13.40	39.7	53.1	-16.7	69.8
8.321	V	32.76	22.24	55.0	-14.8	69.8
9.854	V	27.10	28.1	55.2	-14.6	69.8
17.580	V	11.4	44.2	55.6	-14.2	69.8

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	11/19/2014	11/18/2015
Horn Antenna	R&S	HF906	100311	11/19/2014	11/18/2015
Hybrid Log Periodic Antenna	ΤDΚ	HLP-3003C	130144	11/19/2014	11/18/2015
Loop Antenna	ETS	ETS-6152	24934	11/19/2014	11/18/2015
Anechoic Chamber	ΤDΚ	9m×6 m×5.7m	N/A	04/17/2014	04/16/2015

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:

Jener Guer ENGINEER

ECMG COMPANY NAME

REVIEWED BY: SENIOR ENGINEER

ECMG COMPANY NAME



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



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

***** End Of Report ****

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