

EMI TEST REPORT

On Model Name: Microwave Oven

Model Numbers: EM025FYY, AM025FYY

Brand Name: Midea

FCC ID Number: VG8XM025FXX-Y

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-1202-10780-FCC

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

Test Report Released by: Swell Zhang

February 22, 2012

Date

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, 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 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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List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	VG8XM025FXX-Y _Test Report.pdf
Operation Description	Technical Description	VG8XM025FXX-Y _Operation Description.pdf
External Photos	External Photos	VG8XM025FXX-Y _External Photos
Internal Photos	Internal Photos	VG8XM025FXX-Y _Internal Photos
Block Diagram	Block Diagram	VG8XM025FXX-Y _Block Diagram.pdf
Schematics	Circuit Diagram	VG8XM025FXX-Y _Schematics.pdf
ID Label/Location	Label and Location	VG8XM025FXX-Y _Label & Location.pdf
User Manual	User Manual	VG8XM025FXX-Y _User's Manual.pdf
Test set-up photos	Test set-up photos	VG8XM025FXX-Y _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 : EM025FYY, AM025FYY

Model Tested : EM025FTR

Brand Name : Midea

Receipt Date : February 13, 2012

Date Tested : February 14, 2012 to February 17, 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 EM025FTR (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
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2M392J
Magnetron Manufacturer	WITOL

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

EUT Model Derived

XM025FYY model designations as follow:

 $X=E \ or \ A$;

M: indicate microwave function;

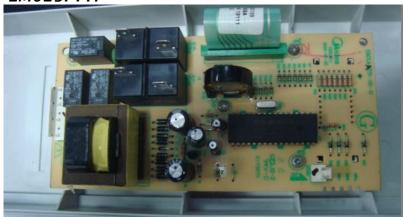
025: "0" indicate the microwave output power is 1000W, "25" indicate cavity capacity is 25 liters;

F: indicate the design No.;

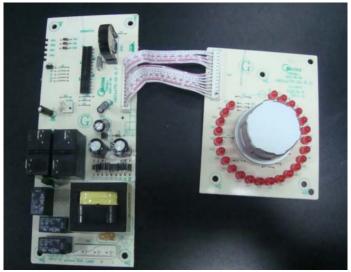
YY= 0-9 or A-Z, indicate different appearance;

EM025FYY is identical to AM025FYY except for electric controller, please see the below picture:

EM025FYY:



AM025FYY:



Note:

Pre-scan has been conducted to determine the worst-case model from all EUT model, model of EM025FTR was selected for the final testing.

Test Summary

The electromagnetic compatibility requirements on model EM025FTR 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 18:2010 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.

EUT Exercise Software

No test sofware support this test.

Equipment Modification

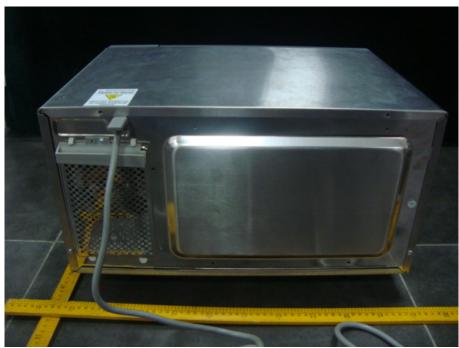
Any modifications installed previous to testing by Guangdong Midea Microwave and Electrical Appliances Manufacturing Co.,Ltd., will be incorporated in each production model sold or leased in United States.

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

EUT Sample Photos for Model EM025FTR



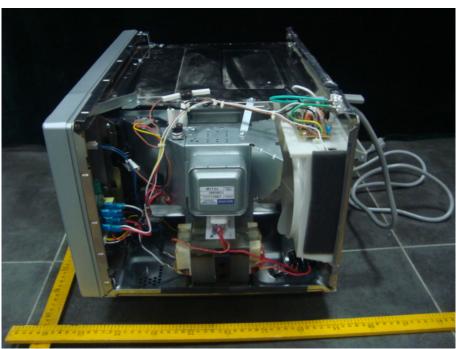
EUT Front View



EUT Rear View



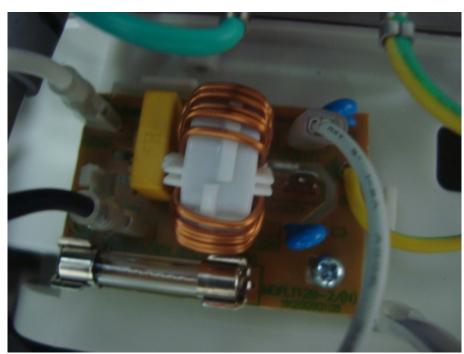
Door Opend View



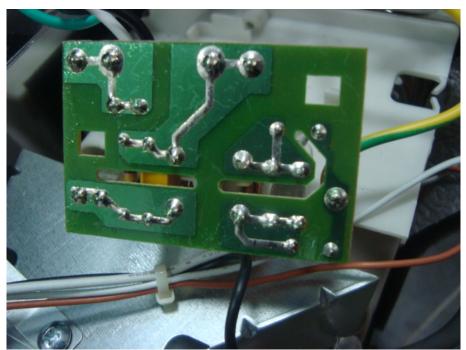
EUT Uncovered View



Magnetron Front View



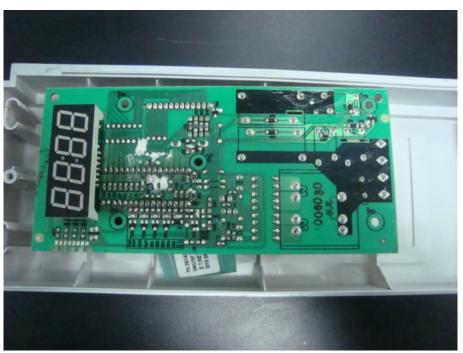
Power Filter Board Top View



Power Filter Board Bottom View



Control Board Top View



Control Board Bottom View

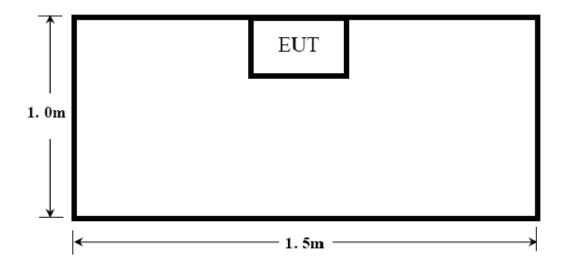
Test System Details

				EUT			
Model Number:	EI	M025F\	Y,AM025FY	Υ			
Model Tested:	EI	M025F7	ΓR				
Description:	М	icrowa	ve Oven				
Input:	A	C 120V	//60Hz				
Manufacturer:			ong Midea M turing Co., I	icrowave and El Ltd	ectrical i	Appliance	es
			Suppor	t Equipment			
Description		Mode	l Number	Serial Num	ber	Ма	nufacturer
	1		,	N/A			
			Cable	Description			
Description	Fro	m	То	Length (Meters)		lded /N)	Ferrite (Y/N)
Power Cable	EU	Т	Plug	1.2	1	V	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:	EM025FYY,AM025FYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM025FTR	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22°C	HUMIDITY:	51%		
ATM PRESSURE:	101kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	February 14, 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 0.21mW/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).				
M. UNCERTAINTY:	0.0001 mW/cm2				

Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
Microwave Measurement	HOLADAY	HI-1710A	00122261	2011.08.22	2012.08.21

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).

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:	EM025FYY,AM025FYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM025FTR	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	21°C	HUMIDITY:	69%		
ATM PRESSURE:	102kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	February 14, 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).				
M. UNCERTAINTY:	± 5W				

Test Data:

Input Voltage	Input Current	Measured Input	Rated Input
(Vac/Hz)	(amps)	Power(watts)	Power(watts)
120.0	14	1527	1500

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power Meter	Ainuo	AN8726C	058704195	10/12/2011	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).

SIGNED BY:

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:	EM025FYY,AM025FYY	PRODUCT:	Microwave Oven	
MODEL TESTED:	EM025FTR	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	21℃	HUMIDITY:	60%RH	
ATM PRESSURE:	101kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	February 16, 2012	
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MF	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 =850.5 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).			
M. UNCERTAINTY:	± 0.3℃			

Test Result:

Quality of	Starting	Final Temperature (${\cal C}$)	Elapsed Time	RF Output
Water(ml)	Temperature (${\mathcal C}$)		(Seconds)	Power(watts)
1000	20.3	44.6	1205	850.5

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Digit Thermometer	Fluke Corporation	Fluke 51 II	87500204	05/15/2011	05/15/2012
Stopwatch	CASIO	HS-3	511Q038	05/22/2011	05/15/2012

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:

FNGINFFR

REVIEWED BY:

SENIOR ENGINEER



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:	EM025FYY,AM025FYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM025FTR	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	21℃	HUMIDITY:	60%RH		
ATM PRESSURE:	102kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	February 16, 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)				
M. UNCERTAINTY:	Freq. ±10kHz				

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)		
2456.60	2459.00		

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2456.60	2460.20
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

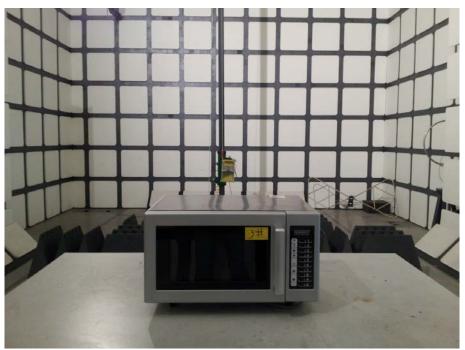
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:

ENGINEER

REVIEWED BY:

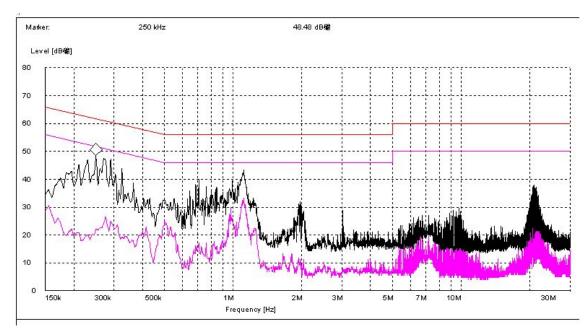
SENIOR ENGINEER



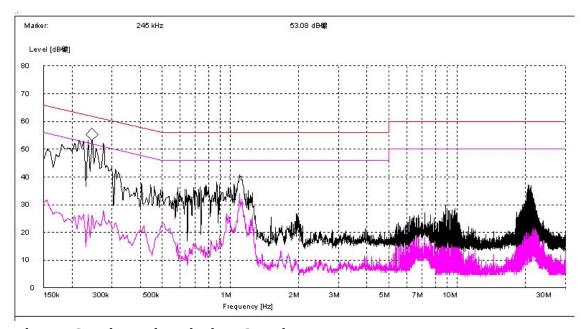
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Microwave and Electrical Appliances Manufacturing Co Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	EM025FYY,AM025FYY	PRODUCT:	Microwave Oven			
MODEL TESTED:	EM025FTR	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	21℃	HUMIDITY:	60%RH			
ATM PRESSURE:	101kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Sewen Guo	DATE OF TEST:	February 17, 2012			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-	ANSI C63.4-2009, FCC/OST MP-5:1986				
TEST PROCEDURE:	The EUT was set up according to the guideline of ANSI C63.4-2009 & FCC MP-5 for conducted emissions. The measurement was using a AMN on each line and an EMI receiver peak scan was made at the frequency measurement range. The six highest significant peaks were then marked, and these signals were then quasi-peaked and averaged. The frequency range investigated was from 150kHz to 30MHz.					
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)					
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	0.250	33.8	61.8	-28.0	0.250	17.5	51.8	-34.3
L	0.290	31.3	60.5	-29.2	0.290	20.5	50.5	-30
L	1.115	38.5	56.0	-17.5	1.115	29.3	46.0	-16.7
N	0.275	42.6	61.0	-18.4	0.275	24.5	51.0	-26.5
N	0.235	43.8	62.3	-18.5	0.235	18.9	52.3	-33.4
N	0.350	37.5	59.0	-21.5	0.350	20.1	49.0	-28.9

Note:

- 1) All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not use.
- 2) "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	04/17/2011	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:	Jones Grus	REVIEWED BY:	Jamenym
_	ENGINEER		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:	EM025FYY,AM025FYY	PRODUCT:	Microwave Oven	
MODEL TESTED:	EM025FTR	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:	February 17, 2012	
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST	MP-5:1986		
TEST PROCEDURE:	radiated emissions. Microwa table. The top of the table is mounted metal turntable. Ar measurement range (pre-scathen performed and the sign peak detection mode from 1GHz. The following data lists the correction factors (including of	ave Oven was placed of 1.0 m above the ground in EMI receiver peak scan) in an Anechoic chan difficant peaks marked. A solution MHz to 1GHz and the significant emission cable and antenna correct explanation of the Correct	NSI C63.4-2009& FCC MP-5 for on a 1m *1.5m nonconductive. The table is placed on a flush an was made at the frequency of the region of the reg	
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 (Shenzhen)	installed by ECMG Ele	ctronic 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]	Corrected Reading [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dBµV/m]	
564.569	V	18.6	10.8	29.4	-40.9	70.3	
655.932	V	20.0	3.1	23.1	-47.2	70.3	
461.543	V	14.9	4.3	19.2	-51.1	70.3	
683.146	Н	20.7	9.9	30.6	-39.7	70.3	
241.884	Н	13.3	6.3	19.6	-50.7	70.3	
113.587	Н	9.3	8.8	18.1	-52.2	70.3	

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.

	1 GHz - 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]		
14.754	V	41.8	10.6	52.4	-17.9	70.3		
17.218	V	42.5	11.7	54.2	-16.1	70.3		
4.263	V	36.1	4.5	40.6	-29.7	70.3		
14.754	Н	41.8	8.9	50.7	-19.6	70.3		
17.218	Н	42.5	13.8	56.3	-14.0	70.3		
9.824	Н	38.5	3.2	41.7	-28.6	70.3		

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	04/17/2011	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:	Somerano	REVIEWED BY:	Jamenym
	ENGINEER		SENIOR ENGINEER



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



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