

EMI TEST REPORT

On Model Name: Microwave Oven Model Number: XM048KYY
Brand Name: Midea
Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
FCC ID Number: VG8XM048KYY 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-1410-11254-FCC
Prepared by: ECMG Nancy Han/Assistant 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 January 26th, 2015 Swall Zhang 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, 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 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	VG8XM048KYY_Test Report.pdf
Operation Description	Technical Description	VG8XM048KYY_Operation Description.pdf
External Photos	External Photos	VG8XM048KYY_External Photos.pdf
Internal Photos	Internal Photos	VG8XM048KYY_Internal Photos.pdf
Block Diagram	Block Diagram	VG8XM048KYY_Block Diagram.pdf
Schematics	Circuit Diagram	VG8XM048KYY_Schematics.pdf
ID Label/Location	Label and Location	VG8XM048KYY_Label & Location.pdf
User Manual	User Manual	VG8XM048KYY_User's Manual.pdf
Test set-up photos	Test set-up photos	VG8XM048KYY_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 : XM048KYY

Model Tested : EM048KIV

Midea

Brand Name

Receipt Date : November 10th, 2014

Date Tested : November 11th, 2014

Applicant : Guangdong Midea Kitchen Appliances

Manufacturing Co.,Ltd.

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

Manufacturer : Guangdong Midea Kitchen Appliances

Manufacturing Co.,Ltd.

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

Telephone : (86)-757-23606480

Fax : (86)-757-22607341

Factory : Guangdong Midea Kitchen 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 Kitchen Appliances Manufacturing Co.,Ltd. model tested EM048KIV (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)	1550W
Rated Output Power (Microwave)	1000W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2M248J
Magnetron Manufacturer	TOSHIBA

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

EUT Model Derived

XM048KYY model designations as follow:

X = E or A; ("E" is electrical comtrol with touch pad, "A" is electrical control with keyboard).

M: Indicate Microwave Function;

048: "0" indicate the microwave output power is 1000W, "48" indicate cavity capacity is 48 liters;

K: indicate the design No.;

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

Note: model of EM048KIV was chosen for the final testing.

Test Summary

The electromagnetic compatibility requirements on model EM048KIV 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	EUT	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 Sample Photos for Model EM048KIV



EUT Front View



EUT Back View

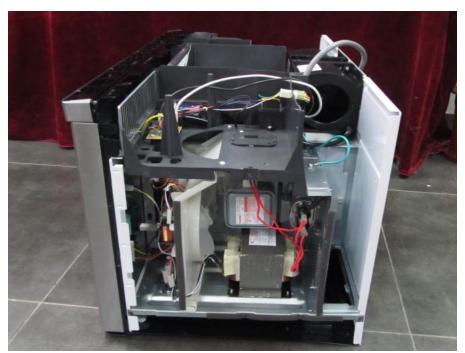


Door Opend View



EUT Uncovered Top View

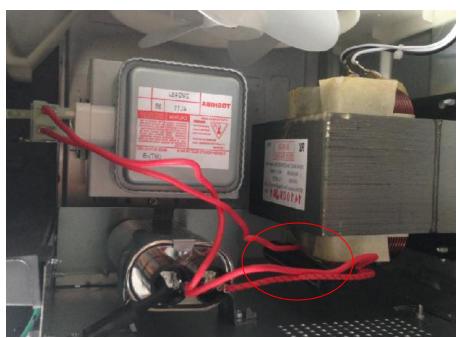
FCC Test Report #: GUA-1410-11254-FCC
Prepared for Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
Prepared by ECMG Electronic Technical Testing Corp (Shenzhen).



EUT Uncovered side View



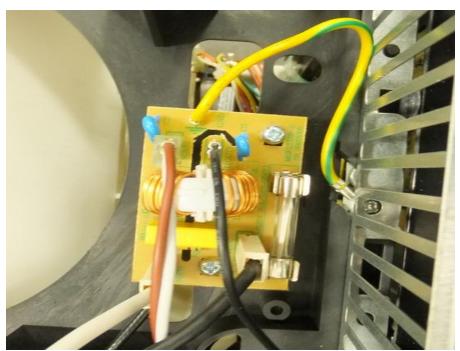
Magnetron Front View



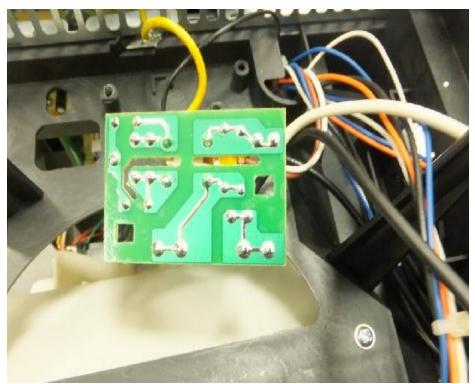
High-voltage Transformer with fuse View



High-voltage Transformer without fuse View



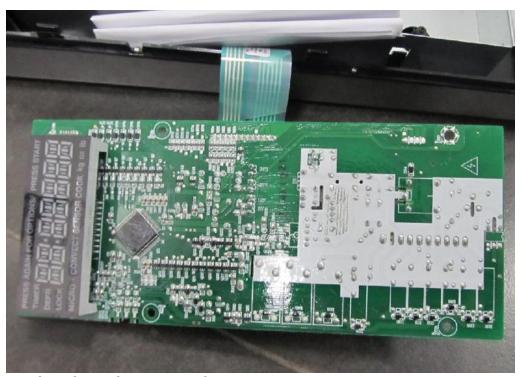
Power Filter Board- Top View



Power Filter Board- Bottom View



Mother board Top View



Mother board Bottom View

FCC Test Report #: GUA-1410-11254-FCC
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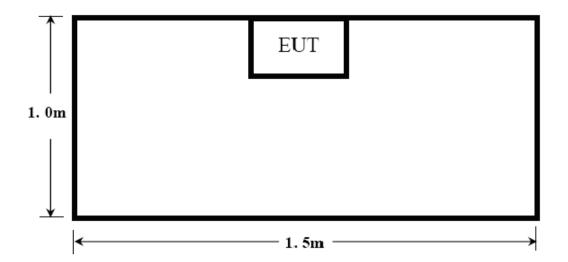
Test System Details

				EUT			
Model Number:	X	M048KY	ΥY				
Model Tested:	EI	M048KI\	V				
Description:	М	licrow av	re Oven				
Input:	A	C 120V,	/60Hz				
Manufacturer:		uangdoi o.,Ltd.	ng Guangdo	ong Midea Kitch	en Applio	ances Ma	nufacturing
	•		Suppor	t Equipment			
Description		Mode	l Number	Serial Num	iber	Ма	nufacturer
	<u>'</u>			N/A			
			Cable	Description			
Description	Fro	m	То	Length (Meters)		elded /N)	Ferrite (Y/N)
Power Cable	EU	π	Plug	1.2	,	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 Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM048KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM048KIV	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	23°C	HUMIDITY:	51%		
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	DATE OF TEST:	November 11 th ,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 0.3mW/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:	0.0001 mW/cm ²				

Test Equipment List:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Microwave Measurement	HOLADAY	HI-1710A	00022150	2015.03.04

SIGNED BY:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XM048KYY	PRODUCT:	Microwave Oven	
MODEL TESTED:	EM048KIV	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22℃	HUMIDITY:	59%	
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Sewen Guo	DATE OF TEST:	November 11 th ,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. 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 (V)	Input Current (A)	Measured Input Power (W)	Rated input Power (W)
120	11.82	1357	1550

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Power Meter	Ainuo	AN8726C	058704200	2015.2.25

SIGNED BY:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	XM048KYY	PRODUCT:	Microwave Oven	
MODEL TESTED:	EM048KIV	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:	November 11 th ,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) = 4.2 joules/calorie × 1000 × (Final Temp - Initial Temp)/120			
TESTED RANGE:	N/A			
TEST VOLTAGE:	120VAC / 60Hz			
RESULTS:	RF Output Power = 829.5 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) test personnel.			
M. UNCERTAINTY:	± 0.3℃			

Test Result:

Initial Temp (で)	Final Temp (で)	Measured Times (s)	Measured output Power (W)
20.0	43.7	120s	829.5

RF Output Power (W) = $4.2 \times 1000 \times (\text{Final Temp} - \text{Initial Temp}) / 120$ = $4.2 \times 1000 \times 13.7 / 120 = 829.5 \text{ watts}$

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date	
Digit Thermometer	Digit Thermometer Fluke Corporation		87500204	2015.03.26	
Stopwatch	CASIO	HS-3	05Q07R	2015.08.06	

SIGNED BY: σ

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

	T		I			
CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	ppliances Manufacturing TEST STANDERD:				
MODEL NUMBERS:	XM048KYY	PRODUCT:	Microwave Oven			
MODEL TESTED:	EM048KIV	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 11 th ,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 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 1050ml 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 1050ml 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 in Corp (Shenzhen) test personnel.	stalled by ECMG Electro	nic Technical Testing			
M. UNCERTAINTY:	Freq. ±10kHz					

Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2449.0	2452.2

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2447.8	2448.9
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 were calibrated and traceable to the National Institute of Standards and Technology (NIST).

SIGNED BY:

REVIEWED BY:

SENIOR ENGINEER

SENIOR ENGINEER

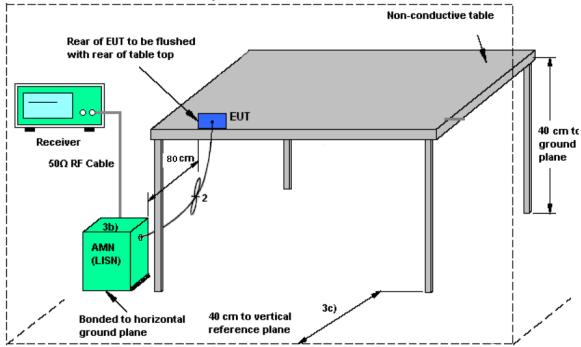


Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM048KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM048KIV	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22℃	HUMIDITY:	60%RH		
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Sewen Guo	wen Guo DATE OF TEST:			
TEST REFERENCE:	ANSI C63.4-2009, FCC/OST MP-	5:1986			
TEST PROCEDURE:	The EUT was set up according to for conducted emissions. The me EMI receiver peak scan was mad highest significant peaks were the peaked and averaged. The frequence 30MHz.	asurement was using a e at the frequency meas en marked, and these si	AMN on each line and an surement range. The six gnals were then quasi-		
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) test personnel.				
M. UNCERTAINTY:	±2.5 dB				

Conducted Emission Test Set up:

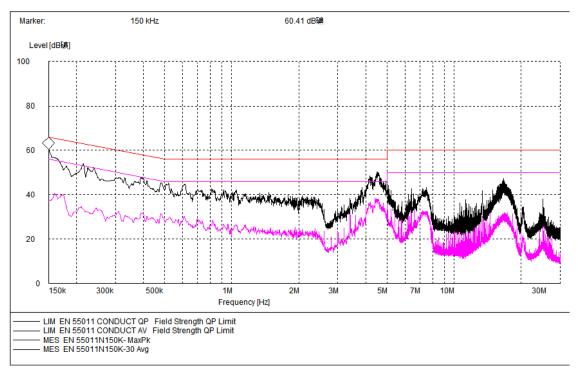


AMN = Artificial mains network (LISN)

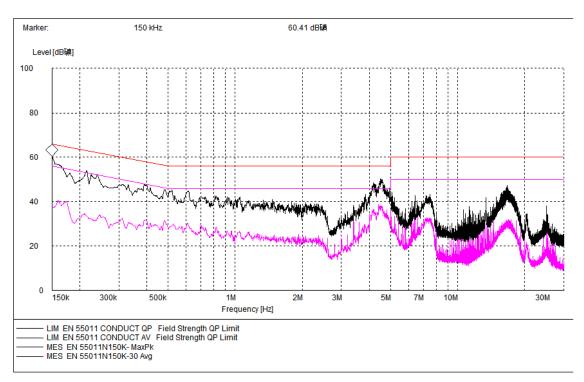
AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network



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	0.450	50.1	56.9	-6.8	0.450	32.1	46.9	-14.8
L	0.500	47.2	56	-8.8	0.500	30.4	46	-15.6
L	0.625	46.1	56	-9.9	0.625	29.7	46	-16.3
N	0.485	45.4	56.3	-10.9	0.485	27.3	46.3	-19.0
N	0.550	42.1	56	-13.9	0.550	28.1	46	-17.9
N	0.680	40.1	56	-15.9	0.680	27.4	46	-18.6

Note:

- 1) All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not used.
- 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.

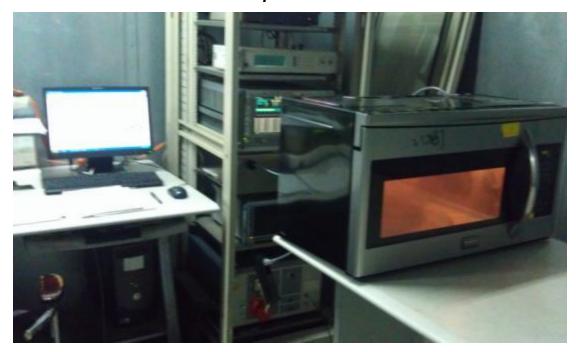
Test Equipments List:

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
EMI test receiver	R&S	ESIB-26 100174		11/19/2014	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).

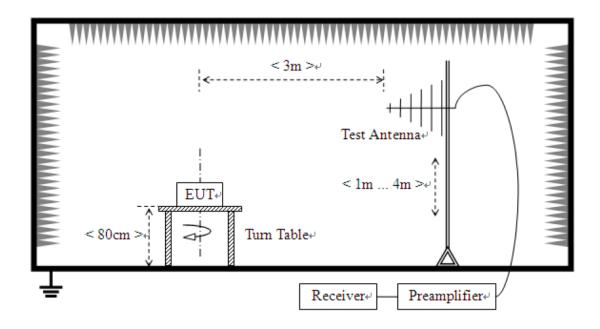
_	ENGINEER	•	SENIOR ENGINEER
SIGNED BY:	Senerano	REVIEWED BY:	Samenfin

Conducted Emission Test Set-up:

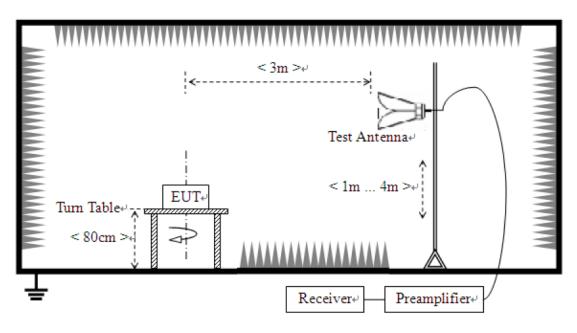


ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	XM048KYY	PRODUCT:	Microwave Oven		
MODEL TESTED:	EM048KIV	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:	November 11 th ,2014		
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				
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) test personnel.	installed by ECMG Elect	ronic Technical Testing Corp		
M. UNCERTAINTY:	± 3.2 dB		-		



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

Test Data:

	30MHz - 1 <i>GHz</i>						
Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dBµV/m]	Factor (dB)	Field Strength [dBµV/m]	Delta, QP [dB]	3 Meters Limits [dB _P V/m]	
327.415	V	11.6	13.8	25.4	-44.8	70.2	
473.106	V	12.3	16.3	28.6	-41.6	70.2	
972.786	V	12.2	27.9	40.1	-30.1	70.2	
271.442	Н	11.8	12.9	24.7	-45.5	70.2	
612.166	Н	11.5	20.9	32.4	-37.8	70.2	
963.066	Н	10.7	28.0	38.7	-31.5	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	Corrected Reading	Factor (dB)	Field Strength	Delta, AV [dB]	3 Meters Limits
[GIIZ]	[V/H]	[dB _µ V/m]	(45)	[dBµV/m]	[0.0]	[dBµV/m]
8.3807	V	24.98	22.42	47.4	-22.8	70.2
9.883 <i>7</i>	V	20.03	28.07	48.1	-22.1	70.2
15.8356	V	11.23	40.77	52.0	-18.2	70.2
9.2525	Н	16.08	27.32	43.4	-26.8	70.2
10.9058	Н	15.25	29.55	44.8	-25.4	70.2
14.8136	Н	16.46	35.34	51.8	-18.4	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	11/19/2014	11/18/2015
Horn Antenna	R&S	HF906	100311	11/21/2014	11/20/2015
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130144	11/21/2014	11/20/2015
Loop Antenna	ETS	ETS-6152	24934	11/21/2014	11/20/2015
Anechoic Chamber	TDK	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).

SIGNED BY:	ENGINEER	REVIEWED BY:	SENIOR ENGINEER
OIONED DV	Senerans		Samerijas

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





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

** * End Of Report ** **