

EMI TEST REPORT

On Model Name: Microwave Oven

Model Numbers: TC044NYYN,TF944EYY-S0NN

Brand Name: Midea

FCC ID Number: VG8TC044NYYN

Prepared for Guangdong Midea Kitchen Appliances

Manufacturing Co.,Ltd.

According to

FCC Part 18(2015)

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-1512-11393-FCC

ViVi Huang/Assistant Company Name

Jawen Yin/Senior Engineer Company Name

Swall Zhang/QC Manager Company Name

Test Report Released by: Swell Zhang January 11th, 2016 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	VG8TC044NYYN _Test Report.pdf
Operation Description	Technical Description	VG8TC044NYYN _Operation Description.pdf
External Photos	External Photos	VG8TC044NYYN _External Photos.pdf
Internal Photos	Internal Photos	VG8TC044NYYN _Internal Photos.pdf
Block Diagram	Block Diagram	VG8TC044NYYN _Block Diagram.pdf
Schematics	Circuit Diagram	VG8TC044NYYN _Schematics.pdf
ID Label/Location	Label and Location	VG8TC044NYYN _Label & Location.pdf
User Manual	User Manual	VG8TC044NYYN _User's Manual.pdf
Test set-up photos	Test set-up photos	VG8TC044NYYN _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 : TC044NYYN, TF944EYY-S0NN

Model Tested : TF944E6V-SONN

Brand Name : Midea

Receipt Date : December 11th, 2015

Date Tested : December 14th, 2015

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 TF944E6V-SONN (referred to as the EUT in this report) is a Microwave Oven.

The technical specifications of EUT are as below:

Power Supply	208&240V 60Hz
Rated Input Power (Microwave)	1750W
Rated Output Power (Microwave)	1000W
Frequency	2450 MHz(Class B/Group 2)
Magnetron Model	2М303Н
Magnetron Manufacturer	TOSHIBA

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

EUT Model Derived

TC044NYYN, TF944E6V-S0NN model designations as follows:

T: Touch type keypad electronic controller;

C: Indicate Microwave+ Grill+ Convection;;

044: "0" indicate the microwave output power is 1000W, "44" indicate cavity capacity is 44 liters;

First N: Indicate the design No.;

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

Second N: Stands for 208&240V 60Hz;

Model TF944EYY-SONN is identical to TC044NYYN except for model name.

Model TF944E6V-SONN was chosen for the final testing.

Test Summary

The electromagnetic compatibility requirements on model TF944E6V-SONN 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 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Input Power Measurement	Passed	AC Input Port	Attachment 2	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	RF Output power Measurement	Passed	EUT	Attachment 3	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Operating Frequency Measurement	Passed	EUT	Attachment 4	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	Conducted Emission	Passed	AC Input Port	Attachment 5	
FCC Part 18:2015 FCC/OST MP-5:1986 ANSI C63.4-2014	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 TF944E6V-SONN



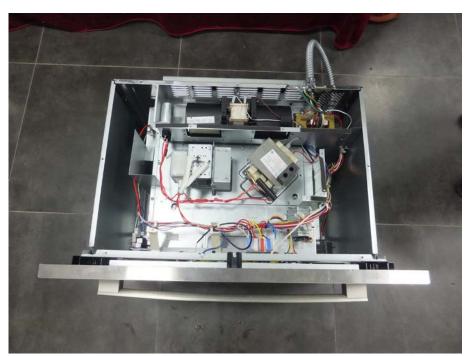
EUT Front View



EUT Back View



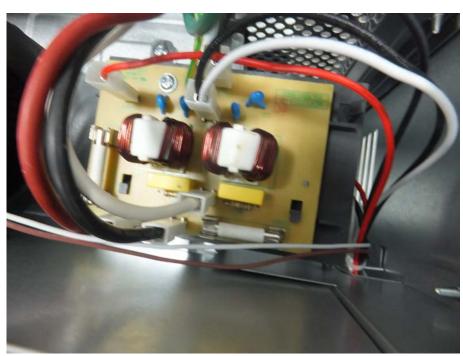
Door Opend View



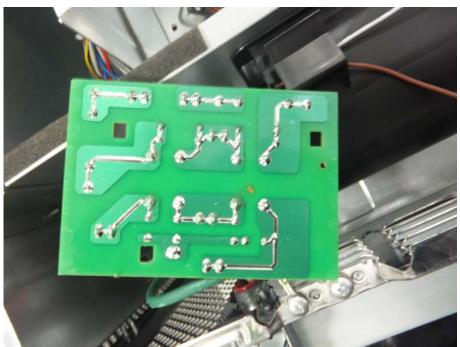
EUT Uncovered View



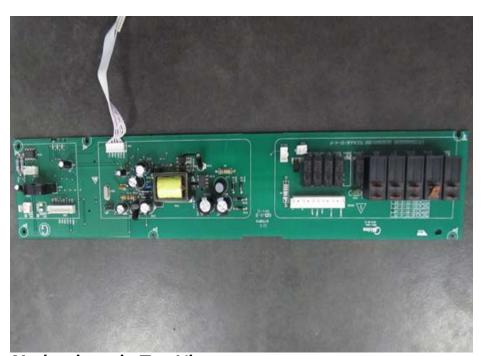
Magnetron Front View



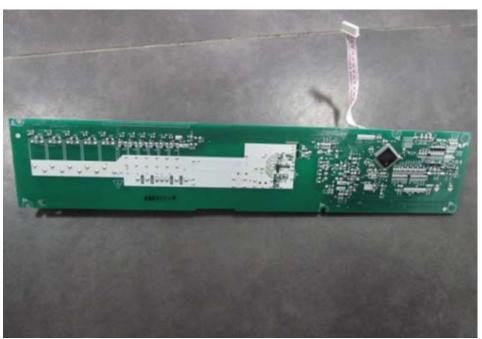
Power Filter Board Top View



Power Filter Board Bottom View



Mother board - Top View



Mother board - Bottom View

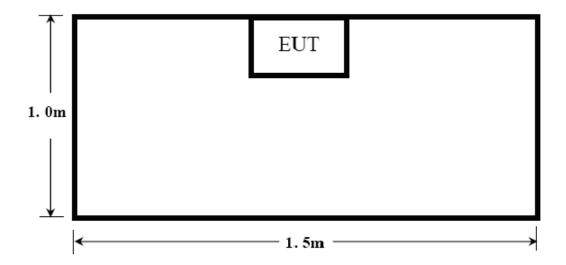
Test System Details

EUT						
Model Number.	: TC0441	NYYN, TF944	EYY-SONN		-	
Model Tested:	TF944E	6V-SONN				
Description:	Microw	ave Oven				
Input:	AC 208	V&240V 60I	Чz			
Manufacturer:	Guanga	long Midea I	Kitchen Applian	ces Mani	ufacturi	ng Co.,Ltd.
Support Equipment						
Description	Mode	Model Number Serial Number Manufacturer				
			N/A			
		Cable	Description			
Description	From	То	Length (Meters)	Shie (Y/		Ferrite (Y/N)
Power	EUT	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 Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	TC044NYYN, TF944EYY- S0NN	PRODUCT:	Microwave Oven	
MODEL TESTED:	TF944E6V-S0NN	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	23°C	HUMIDITY:	51%	
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Yang Dongmei	DATE OF TEST:	December 14 th ,2015	
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MI	P-5:1986		
TEST PROCEDURE:	The EUT was set-up according to the FCC MP-5 and FCC Part 18 for Radiation Hazard Measurement. The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed. A 700ml water load in a beaker was located in the center of the oven and the Microwave Oven was set to maximum power. While the oven operating, the microwavemeter will check the leakage and then record the maximum leakage.			
TESTED RANGE:	N/A			
TEST VOLTAGE:	AC208V&240V 60Hz			
RESULTS:	There was no microwave leakage exceeding a power level of 0.13mW/cm² at AC208V 60Hz, 0.14 mW/cm² at AC240V 60Hz 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	2016.3.10

TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

REVIEWED BY:

Radiation Hazard Test Set up:



Radiation Hazard Test Set-up -208V



Radiation Hazard Test Set-up -240V

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	TC044NYYN,TF944EYY- S0NN	PRODUCT:	Microwave Oven	
MODEL TESTED:	TF944E6V-S0NN	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22°C	HUMIDITY:	59%	
ATM PRESSURE:	103.1kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Yang Dongmei	DATE OF TEST:	December 14 th ,2015	
TEST REFERENCE:	ANSI C63.4-2014, 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:	AC208V&240V 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)
208.0	15.77	1776.0	1750
240.3	15.87	1801.0	1750

Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Power Meter	Ainuo	AN8726C	058704200	2016.2.6

TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

Input power Test Set up:



Input Power Test Set-Up (208V/60Hz)



Input Power Test Set-Up (240V/60Hz)

ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	TC044NYYN, TF944EYY- S0NN	PRODUCT:	Microwave Oven	
MODEL TESTED:	TF944E6V-S0NN	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22 °C	HUMIDITY:	60%RH	
ATM PRESSURE:	103kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Yang Dongmei	DATE OF TEST:	December 14 th ,2015	
TEST REFERENCE:	ANSI C63.4-2014, 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:	AC208V&240V 60Hz			
RESULTS:	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:

208V/60Hz:

Initial Temp	Final Temp	Measured Times	Measured out put
(°C)	(で)	(s)	Power(W)
20.6	40.6	120	700.0

RF Output Power (W) = $4.2 \times 1000 \times (Final\ Temp - Initial\ Temp) / 120 = 700 \text{watts}$

240V/60Hz:

Initial Temp (°C)	Final Temp (°C)	Measured Times (s)	Measured output Power (W)
20.6	40.9	120	710.5

RF Output Power (W) = $4.2 \times 1000 \times (Final\ Temp - Initial\ Temp) / 120 = 710.5$ watts

Test Equipments list:

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date	
Digit Thermometer	Fluke Corporation	Fluke 51 II	15940198	2016.07.17	
Stopwatch	CASIO	JS-510	CF-003	2015.10.10	

	FNGINEER		SENIOR ENGINEER
TESTED BY:	杨冬村	REVIEWED BY:	Samenfin

RF Output power Test Set up:



RF Output Power Test Set-Up (208V/60Hz)



RF Output Power Test Set-Up (240V/60Hz)

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	TC044NYYN, TF944EYY- S0NN	PRODUCT:	Microwave Oven			
MODEL TESTED:	TF944E6V-S0NN	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22°C	HUMIDITY:	60%RH			
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Yang Dongmei	DATE OF TEST:	December 14 th ,2015			
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST	MP-5:1986				
	The EUT was set up according Frequency Measurement.	ng to the FCC MP-5 and l	FCC Part 18 for Operating			
TEST PROCEDURE:	1) The variation of frequency with time. The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000n 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:	Pre-Scan has been conducted to determine the worst-case from combination between available input voltage. The worst case AC240V 60Hz was used for final testing.					
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)
2468.2	2469.8

Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)				
2463.1	2468.2				
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	11/18/2015	11/17/2016
Horn Antenna	R&S	HF906	100311	11/20/2015	11/21/2016

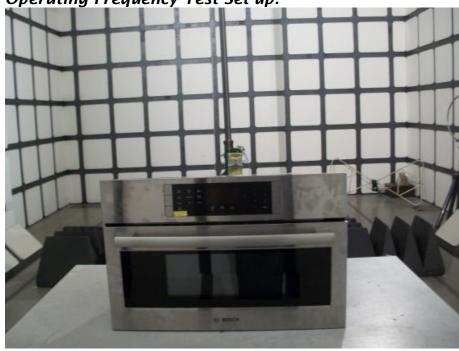
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

TESTED BY:

REVIEWED BY:

SENIOR ENGINEER

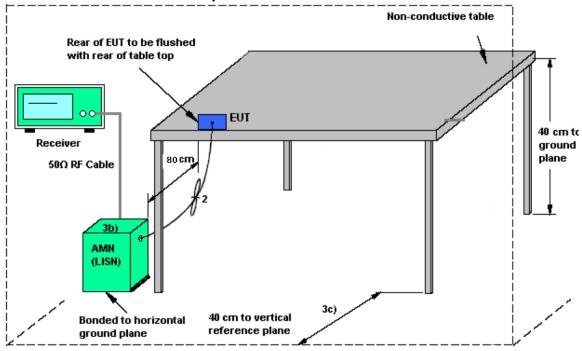
Operating Frequency Test Set-up:



ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	TC044NYYN, TF944EYY- S0NN	PRODUCT:	Microwave Oven			
MODEL TESTED:	TF944E6V-S0NN	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22°C	HUMIDITY:	60%RH			
ATM PRESSURE:	101.1kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Yang Dongmei DATE OF TEST:		December 14 th ,2015			
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MP-5:1986					
TEST PROCEDURE:	The EUT was set up according to the guideline of ANSI C63.4-2014 & 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:	Pre-Scan has been conducted to determine the worst-case from combination between available input voltage. The worst case AC240V 60Hz was used for final testing.					
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 (Shenzhen) test personnel.	installed by ECMG Electr	onic Technical Testing Corp			
M. UNCERTAINTY:	The maximum measurement 150KHz~ 30MHz: 3.0dB	uncertainty is evaluated	as:			

Conducted Emission Test Set up:

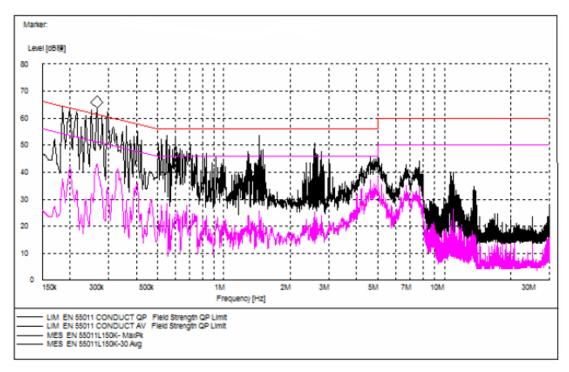


AMN = Artificial mains network (LISN)

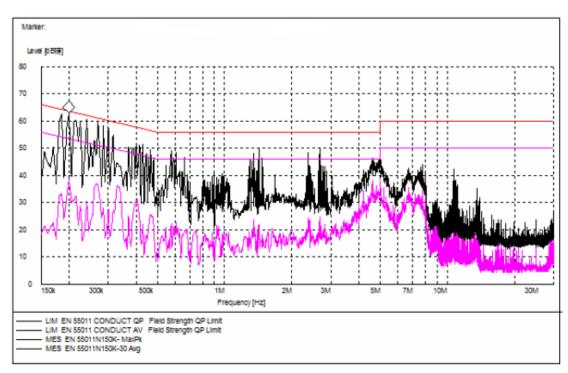
AE = Associated equipment

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	0.200	50.4	63.6	-13.2	0.200	31.3	53.6	-22.3
L	0.315	30.3	59.8	-9.5	0.315	27.4	49.8	-22.4
L	0.360	43.7	<i>58.7</i>	-15.0	0.360	28.7	48.7	-20.0
N	0.150	49.8	66	-16.2	0.150	34.9	56	-21.1
N	0.185	50.9	64.3	-13.4	0.185	27.8	54.3	-26.5
N	0.315	47.2	59.8	-12.6	0.315	36.9	49.8	-12.9

Note:

- All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not used. "QP" means "Quasi-Peak" values, "AV" means "Average" values.
- 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	11/19/2015	11/18/2016
LISN	R&S	ESH2-Z5	100091	11/19/2015	11/18/2016
Transient Limiter	Agilent	11947A	3107A03648	11/19/2015	11/18/2016
Shielding Room	TDK	8m×4m×3m	N/A	04/17/2015	04/16/2017

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).

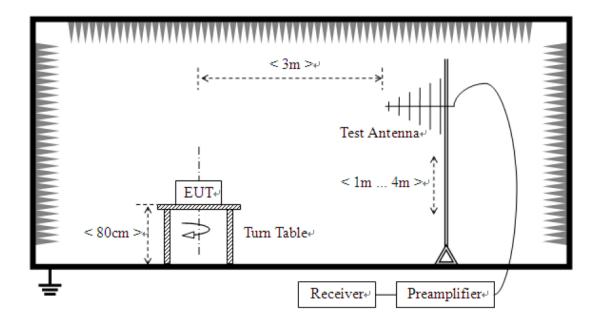
TESTED BY: _	初个13	REVIEWED BY:
	ENGINEER	SENIOR ENGINEER

Conducted Emission Test Set-up:

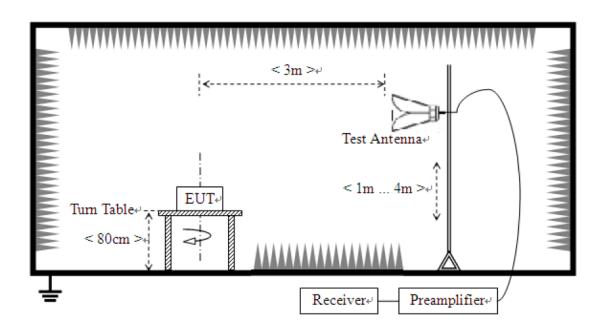


ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.	TEST STANDERD:	FCC Part 18		
MODEL NUMBERS:	TC044NYYN, TF944EYY- S0NN	PRODUCT:	Microwave Oven		
MODEL TESTED:	TF944E6V-S0NN	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	22 °C	HUMIDITY:	63%RH		
ATM PRESSURE:	103.0kPa	GROUNDING:	Through AC Power Cord		
TESTED BY:	Yang Dongmei	DATE OF TEST:	December 14 th ,2015		
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST	MP-5:1986			
TEST PROCEDURE:	The EUT was set up according 5 for radiated emissions. Michael nonconductive table. The top placed on a flush mounted made at the frequency meas Signal discrimination was the data was recorded in Quasi-paverage detector mode above. The following data lists the signary correction factors (including a 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 about a turntable. An EMI resurement range (pre-scan performed and the signoeak detection mode from a 1GHz. gnificant emission frequence limits. Explanation of the signory of the limits.	d on a 1m *1.5m eve the ground. The table is ceiver peak scan was in an Anechoic chamber. enificant peaks marked. All an 30 MHz to 1GHz and encies, measured levels, etion factors), and the		
TESTED RANGE:	30MHz to 24.5GHz				
TEST VOLTAGE:	Pre-Scan has been conducted to determine the worst-case from combination between available input voltage. The worst case AC240V 60Hz was used for final testing.				
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:	The maximum measurement 30~1000MHz: 4.76dB; 1~25GHz: 4.5dB	uncertainty is evaluated	as:		



For radiated emissions above 1GHz



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]
381.844	V	27.01	15.5	42.51	-26.99	69.5
267.154	V	8.63	12.9	21.53	-47.97	69.5
360.461	V	13.51	14.4	27.91	-41.59	69.5
745.351	Н	9.41	24.3	33.71	-35.79	69.5
366.293	Н	9.33	14.8	24.13	-45.37	69.5
424.609	Н	7.95	16.9	24.85	-44.65	69.5

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]
8.657	V	22.89	22.42	45.31	-24.19	69.5
9.914	V	29.49	28.07	57.56	-11.94	69.5
14.874	V	15.01	35.34	50.35	-19.15	69.5
8.471	Н	28.75	22.42	51.17	-18.33	69.5
9.914	Н	27.32	28.07	55.39	-14.11	69.5
14.904	Н	15.14	35.34	50.48	-19.02	69.5

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.

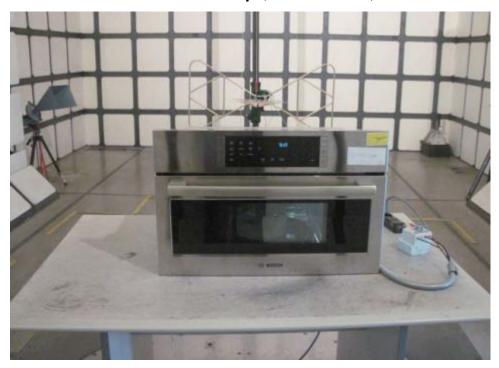
Test Equipments List:

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Test Receiver	R&S	ESIB-26	100174	11/19/2015	11/18/2016
Horn Antenna	R&S	HF906	100311	11/21/2015	11/20/2016
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130144	11/21/2015	11/20/2016
Loop Antenna	ETS	ETS-6152	24934	11/21/2015	11/20/2016
Anechoic Chamber	TDK	9m×6 m×5.7m	N/A	04/17/2015	04/16/2017

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: _	FNGINEER	REVIEWED BY:	SENIOR ENGINEER
	杨个43		Jamestin

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



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



*** End Of Report ***