

EMI TEST REPORT

On Model Name: Microwave Oven

Model Numbers: P110D48X -Y, RED(X)0(Y)H-(Z)

Trade Mark: Galanz

FCC ID Number: UHW10048001

Prepared for Guangdong Galanz Enterprises Co., Ltd.

According to

♦ FCC Part 18(2016)

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-1703-11652-FCC

Jawen Yin/Senior Engineer Company Name

Test Report Released by: Swell Zhang March 13th, 2017

Date

Verdict

| Test Result : Pass* |
|---------------------|
|---------------------|

^{*:}In the configuration,the EUT complied with the standard specified above.

Revision History

| Rev. | Issue date | Revision | Revised by |
|------|------------|----------|------------|
| 01 | 03/13/2017 | Initial | Jawen Yin |

Test Location

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

Test Site Location : EMC Laboratory of Guangdong Galanz

Enterprises Co., Ltd.

No.25 South Ronggui Rd., Shunde, Foshan,

Guangdong, China.

Tel : (86)-757-23612785

Fax : (86)-757- 23612537

Test Facility

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

In compliance with the site registration requirements of section 2.948 of the FCC rules to perform EMI measurements for the general public.

FCC Registration Number: 580210

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List Attached Files

| Exhibit Type | File Description | File Name |
|-----------------------|-----------------------|---------------------------------------|
| Test Report | Test Report | UHW10048001_Test Report.pdf |
| Operation Description | Technical Description | UHW10048001_Operation Description.pdf |
| External Photos | External Photos | UHW10048001_External Photos.pdf |
| Internal Photos | Internal Photos | UHW10048001 _Internal Photos.pdf |
| Block Diagram | Block Diagram | UHW10048001 _Block Diagram.pdf |
| Schematics | Circuit Diagram | UHW10048001_Schematics.pdf |
| ID Label/Location | Label and Location | UHW10048001_Label & Location.pdf |
| User Manual | User Manual | UHW10048001_User's Manual.pdf |
| Test set-up photos | Test set-up photos | UHW10048001 _Test Set-up Photos |

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Reproduction Clause

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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 : P100D48X-Y, RED(X)O(Y)H-(Z)

Model Tested : P100D48AL-JC

Brand Name : Galanz

Receipt Date : February 8th, 2017

Date Tested : February 9th, 2017

Applicant : Guangdong Galanz Enterprises Co., Ltd.

Address No.25 South Ronggui Rd., Shunde, Foshan,

Guangdong, China

Telephone : (86)-757-23612785

Fax : (86)-757-23612537

Manufacturer 01 : Guangdong Galanz Microwave Oven Electrical Appliance

Manufacture Co., Ltd.

Address 25 Ronggui Nan Rd., Shunde, Foshan,

Guangdong , China

Manufacturer 02 : Guangdong Galanz Microwave Electrical Appliances

Manufacturing Co., Ltd.

Address No.3, Xingpu Road, Maxin Industrial Zone,

Huangpu Town, Zhongshan City, Guangdong

Province, China

EUT Description

Guangdong Galanz Enterprises Co., Ltd. model tested P100D48AL-JC (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) | 1650W | | |
| Rated Output Power (Microwave) | 1000W | | |
| Frequency | 2450 MHz(Class B/Group 2) | | |
| Magnetron Model | M24FC-610A | | |
| Magnetron Manufacturer | Galanz | | |

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

EUT Model Derived

Model Numbers: RED(X)0(Y)H-(Z), P100D48X-Y

Model Tested: P100D48AL-JC or RED480JCH-PAHC0A

RED(X)O(Y)H-(Z):

RED(X)O(Y)H-(Z)model designations:

R: denotes "Over-The-Range" model..

E: denotes one of the electric controller.

D: denotes the type of the cavity.

0: denote the output power is 1000W or 950W

H: denotes the Pull-out type door

Variable (X): for sale area, including a combination of numbers, may be 42,45, 48,51 or 56, which don't affect the certification.

Variable (Y): It represents the differences of the appearance, including combination of letters and/or numbers, which don't affect the certification.

Variable (Z): may compose by one to six characters from A to Z and/or numbers from 0 to 9. It denotes one of the cosmetics of the microwave oven, which don't affect the certification.

P100D48X-Y:

Variable (X) may be L,P,SL,SP,AL,AP,ASL,ASP,EL,EP, ESL,ESP,ALH

"L" is pull-out type door, "P" is push-button type door. When there is no letter before "L" and "P", denotes mechanical control model; When there are "A" or "E" denote the electrical control model. "S" denotes stainless steel cavity; When there is without "S" before "L" or "P", denotes the epoxy painted cavity. "H" denotes the humidity sensor.

Variable (Y) may compose by one to six characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.

RED(X)O(Y)H-(Z) are identical to P100D48X-Y except for model number. They only used for different client purpose.

Model tested P100D48AL-JC is identical to RED480JCH-PAHC0A except for model number. Model P100D48AL-JC is was selected for final testing.

Test Summary

The electromagnetic compatibility requirements on model P100D48AL-JC for this test are stated below. all results listed in this report relate exclusively to this abovementioned 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 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014 | Radiation Hazard Measurement | Passed | Enclosure | Attachment 1 | |
| FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014 | Input Power Measurement | Passed | AC Input Port | Attachment 2 | |
| FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014 | RF Output power Measurement | Passed | EUT | Attachment 3 | |
| FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014 | Operating Frequency Measurement | Passed | EUT | Attachment 4 | |
| FCC Part 18:2016 FCC/OST MP-5:1986 ANSI C63.4-2014 | Conducted Emission | Passed | AC Input Port | Attachment 5 | |
| FCC Part 18:2016 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 software support this test.

Equipment Modification

Any modifications installed previous to testing by Guangdong Galanz Enterprises 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 Back View



Door Opend View



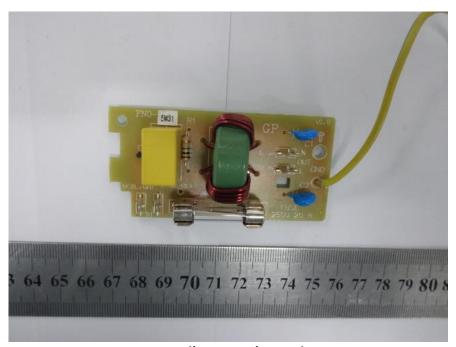
Uncovered View from right side



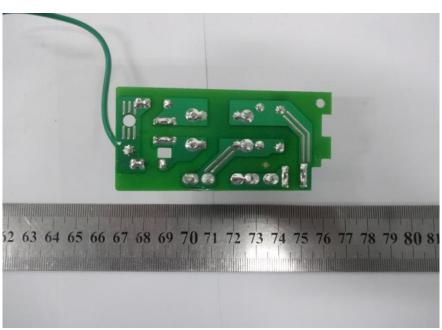
Uncovered View from top side



Magnetron Front View



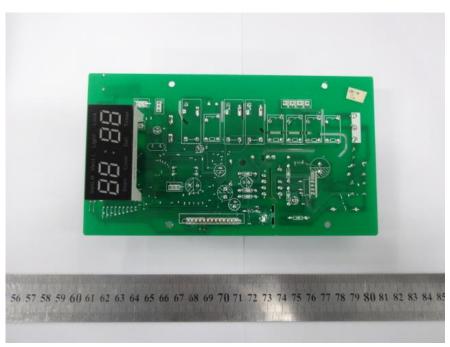
Power Filter Board Top View



Power Filter Board Bottom View



Mother board - Top View



Mother board - Bottom View



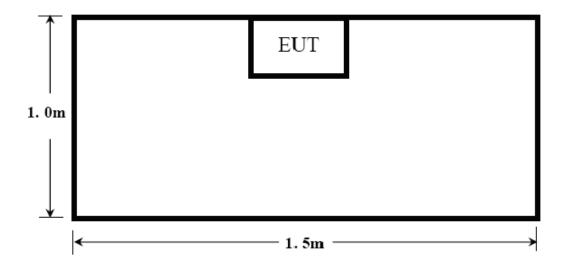
Transducer board - Top View

Test System Details

| EUT | | | | | |
|--|---------------------------------------|---|---|---|--|
| Model Number: P100D48X-Y, RED(X)0(Y)H-(Z) | | | | | |
| P100D48AL-JC | | | | | |
| Microwa | ve Oven | | | | |
| Input: AC 120V/60Hz | | | | | |
| Manufacturer: Guangdong Galanz Enterprises Co., Ltd. | | | | | |
| Support Equipment | | | | | |
| Description Model Number Serial Number Manufacturer | | | | | |
| N/A | | | | | |
| | Cable | Description | | | |
| From | То | Length (Meters) | | | Ferrite (Y/N) |
| EUT | Plug | 1.10 | ı | V | N |
| | P100D48 Microwa AC 120V, Guangda Mod | P100D48AL-JC Microwave Oven AC 120V/60Hz Guangdong Galanz Ente Suppor Model Number Cable From To | P100D48X-Y, RED(X)0(Y)H-(Z) P100D48AL-JC Microwave Oven AC 120V/60Hz Guangdong Galanz Enterprises Co., Ltd. Support Equipment Model Number Serial Numb N/A Cable Description From To Length (Meters) | P100D48X-Y, RED(X)0(Y)H-(Z) P100D48AL-JC Microwave Oven AC 120V/60Hz Guangdong Galanz Enterprises Co., Ltd. Support Equipment Model Number Serial Number N/A Cable Description From To Length (Meters) Shie (Y) | P100D48X-Y, RED(X)0(Y)H-(Z) P100D48AL-JC Microwave Oven AC 120V/60Hz Guangdong Galanz Enterprises Co., Ltd. Support Equipment Model Number Serial Number N/A Cable Description From To Length (Meters) Shielded (Y/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 Galanz Enterprises Co Ltd. | TEST STANDERD: | FCC Part 18 | |
|---------------------------|--|------------------|---------------------------------|--|
| MODEL NUMBERS: | P100D48X-Y,RED(X)0(Y)H- (Z) | PRODUCT: | Microwave Oven | |
| MODEL TESTED: | P100D48AL-JC | EUT DESIGNATION: | Home or Office | |
| TEMPERATURE: | 23°C | HUMIDITY: | 51% | |
| ATM PRESSURE: | 103kPa | GROUNDING: | Through AC Power Cord | |
| TESTED BY: | Daomen Guan | DATE OF TEST: | February 08 th ,2017 | |
| 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 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 0.19mW/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 system | HOLADAY | HI-1710 | 98370 | 2018.1.16 |

TESTED BY:

ENGINEER REV

REVIEWED BY:

SENIOR ENGINEER

Radiation Hazard Test Set up:



ATTACHMENT 2 – INPUT POWER MEASUREMENT

| CLIENT: | Guangdong Galanz Enterprises Co Ltd. | TEST STANDERD: | FCC Part 18 | |
|---------------------------|---|------------------|---------------------------------|--|
| MODEL NUMBERS: | P100D48X-Y,RED(X)0(Y)H- (Z) | PRODUCT: | Microwave Oven | |
| MODEL TESTED: | P100D48AL-JC | EUT DESIGNATION: | Home or Office | |
| TEMPERATURE: | 22℃ | HUMIDITY: | 59% | |
| ATM PRESSURE: | 103.1kPa | GROUNDING: | Through AC Power Cord | |
| TESTED BY: | Daomen Guan | DATE OF TEST: | February 08 th ,2017 | |
| 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: | 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 Power | Rated input Power |
|---------------|---------------|----------------------|-------------------|
| (V) | (A) | (W) | (W) |
| 120.5V/60Hz | 13.94 | 1611 | 1650 |

Test Equipments List:

| Test Equipment | Manufacturer | Model | Serial No. | Cal. Due Date |
|----------------|--------------|---------|------------|---------------|
| Power Meter | Ainuo | AN8720P | 058704074 | 2017.07.19 |

TESTED BY:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

Input power Test Set up:



ATTACHMENT 3 – RF OUTPUT POWER MEASUREMENT

| CLIENT: | Guangdong Galanz Enterprises Co Ltd. TEST STANDERD: | | FCC Part 18 | | |
|------------------------------|---|------------------|---------------------------------|--|--|
| MODEL NUMBERS: | P100D48X-Y,RED(X)0(Y)H- (Z) | PRODUCT: | Microwave Oven | | |
| MODEL TESTED: | P100D48AL-JC | EUT DESIGNATION: | Home or Office | | |
| TEMPERATURE: | 22°C | HUMIDITY: | 60%RH | | |
| ATM PRESSURE: | 103kPa | GROUNDING: | Through AC Power Cord | | |
| TESTED BY: | Daomen Guan | DATE OF TEST: | February 08 th ,2017 | | |
| TEST REFERENCE: | ANSI C63.4-2014, FCC/OST | MP-5:1986 | 1 | | |
| TEST PROCEDURE: | power Measurement. The Ca output power. The initial temp water load in a beaker was lo operated at maximum output water was re-measured. RF Output Power | | | | |
| | = (4.2joules/calorie)(volume i = 4.2 joules/calorie × 1000 × | | | | |
| TESTED RANGE: | N/A | | | | |
| TEST VOLTAGE: | 120VAC / 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:

| Initial Temp (${\mathcal C}$) | Final Temp $({}^{\!$ | Measured Times (s) | Measured out put Power(W) |
|---------------------------------|--|--------------------|---------------------------|
| 19.9 | 46.7 | 1235 | 938 |

RF Output Power (W) = $4.2 \times 1000 \times (Final Temp - Initial Temp) / 120 = 938 watts$

Test Equipments list:

| Test Equipment Manufacturer | | Model | Serial No. | Cal. Due Date |
|-------------------------------|-------------------|---------|------------|---------------|
| Digit Thermometer | TES | TES1310 | 021108782 | 2017.08.12 |
| Electronic scale USA.HZ&HUAZI | | 5kg | 11038 | 2017.03.24 |
| Power Meter | Power Meter Ainuo | | 058704074 | 2017.07.19 |

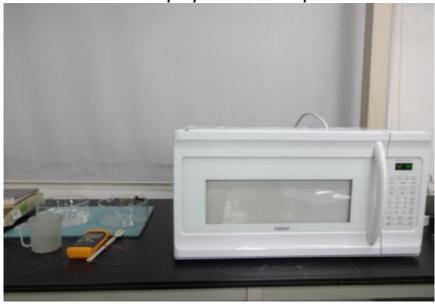
TESTED BY:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

RF Output power Test Set up:



ATTACHMENT 4 – OPERATING FREQUENCY MEASUREMENT

| CLIENT: | Guangdong Galanz Enterprises Co Ltd. | TEST STANDERD: | FCC Part 18 | |
|---------------------------|---|------------------|----------------------------------|--|
| MODEL NUMBERS: | P100D48X-Y,RED(X)0(Y)H- (Z) | PRODUCT: | Microwave Oven | |
| MODEL TESTED: | P100D48AL-JC | EUT DESIGNATION: | Home or Office | |
| TEMPERATURE: | 22°C | HUMIDITY: | 60%RH | |
| ATM PRESSURE: | 101.1kPa | GROUNDING: | Through AC Power Cord | |
| TESTED BY: | Daomen Guan | DATE OF TEST: | February 08 th , 2017 | |
| 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 Operating Frequency Measurement. 1) The variation of frequency with time. The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000ml water load in a beaker was located in the center of the oven. Set a spectrum analyzer with antenna at 3 meters distance form the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load. 2) The variation of frequency with Line Voltage. The operating frequency was measured using a spectrum analyzer. The EUT was operated/warmed by at least 10 minutes of use with a 1000ml water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating. | | | |
| TESTED RANGE: | 2450 ± 50MHz | | | |
| TEST VOLTAGE: | 120VAC / 60Hz | | | |
| RESULTS: | Please refer to following pages for details of the variation in operating frequency with time & line voltage measurement. The test results relate only to the equipment under test provided by client. | | | |
| CHANGES OR MODIFICATIONS: | There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen) test personnel. | | | |
| M. UNCERTAINTY: | Freq. ±10kHz | | | |

Variation in Operating Frequency with Time:

| Minimum Frequency (MHz) | Maximum Frequency (MHz) |
|-------------------------|-------------------------|
| 2416.4 | 2483.6 |

Variation in Operating Frequency with Line Voltage:

| Minimum Frequency (MHz) | Maximum Frequency (MHz) | | |
|---|-------------------------|--|--|
| 2418.8 | 2491.6 | | |
| Note: Line voltage varied from 96Vac to 150Vac. | | | |

Test Equipments List:

| Test Equipment Manufacturer | | Model | Serial No. | Last Cal. | Cal. Due |
|-----------------------------|-----|-------|------------|------------|------------|
| Spectrum Analyzer | R&S | FSP30 | 100755 | 11/20/2016 | 11/19/2017 |
| Horn Antenna | ETS | 3115 | 6587 | 10/24/2016 | 10/23/2017 |

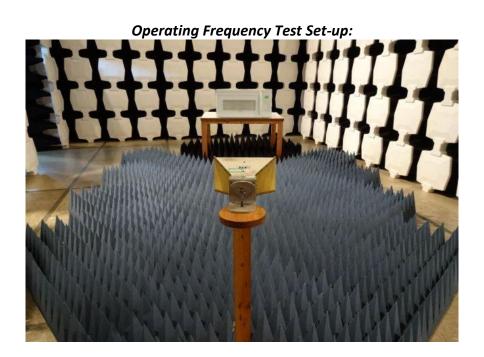
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).

TESTED BY:

ENGINEER

REVIEWED BY:

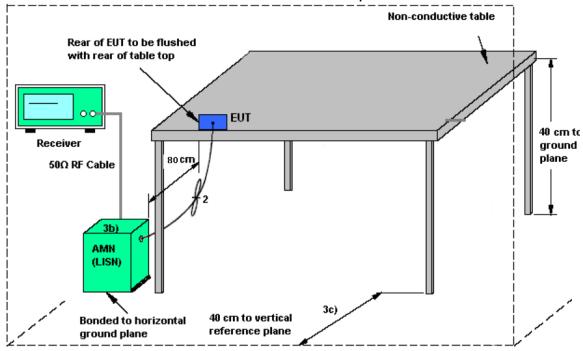
SENIOR ENGINEER



ATTACHMENT 5 – CONDUCTED EMISSION TEST RESULTS

| CLIENT: | Guangdong Galanz Enterprises Co Ltd. | TEST STANDERD: | FCC Part 18 | |
|---------------------------|---|---|--|--|
| MODEL NUMBERS: | P100D48X-Y,RED(X)0(Y)H- (Z) | PRODUCT: | Microwave Oven | |
| MODEL TESTED: | P100D48AL-JC | EUT DESIGNATION: | Home or Office | |
| TEMPERATURE: | 22°C | HUMIDITY: | 60%RH | |
| ATM PRESSURE: | 101.1kPa | GROUNDING: | Through AC Power Cord | |
| TESTED BY: | Daomen Guan | DATE OF TEST: | February 08 th ,2017 | |
| TEST REFERENCE: | ANSI C63.4-2014, FCC/OST MP-5:1986 | | | |
| TEST PROCEDURE: | The EUT was set up according for conducted emissions. The an EMI receiver peak scan was six highest significant peaks was quasi-peaked and averaged. 150kHz to 30MHz. | e measurement was using 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 / 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: | The maximum measurement 150KHz~ 30MHz: 3.0dB | uncertainty is evaluated | as: | |

Conducted Emission Test Set up:



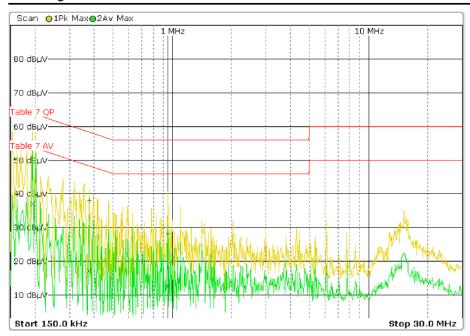
AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

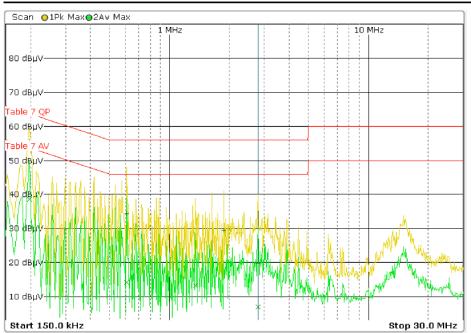
ISN = Impedance stabilization network

Scan Diagram



Line L Conducted Emission Graph

Scan Diagram



Line N Conducted Emission Graph

Test Data:

| Lines (L/N) | Frequency (MHz) | Corrected QP Level (dBuV) | Limits QP (dBuV) | Over Limit QP (dB) | Frequency (MHz) | Corrected AV Level (dBuV) | Limits AV (dBuV) | Over Limit QP (dB) |
|-------------|--------------------|---------------------------------|---------------------|-----------------------|--------------------|------------------------------|---------------------|-----------------------|
| L | 0.194 | 55.3 | 63.9 | -8.5 | 0.194 | 37.1 | 53.9 | -16.8 |
| L | 0.378 | 38.1 | 58.3 | -20.2 | 0.378 | 17.2 | 48.3 | -31.2 |
| L | 0.946 | 28.2 | 56.0 | -27.8 | 0.946 | 12.6 | 46.0 | -33.4 |
| / | / | / | / | / | / | / | / | / |
| / | / | / | / | / | / | / | / | / |
| N | 0.198 | 55.5 | 63.7 | -8.2 | 0.198 | 38.6 | 53.7 | -15.1 |
| N | 0.610 | 34.4 | 56.0 | -21.7 | 0.610 | 14.2 | 46.0 | -31.8 |
| N | 1.346 | 28.4 | 56.0 | -27.6 | 1.346 | 13.2 | 46.0 | -32.8 |
| / | / | / | / | / | / | / | / | / |
| / | / | / | / | / | / | / | / | / |

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 | SCHAFFNER | SMR4503 | 44 | 10/26/2016 | 10/25/2017 |
| AMN | R&S | ESH2-Z5 | 0338.5219.53- 100396-vj | 03/31/2016 | 03/30/2017 |
| Shielding Room | ETS | 8m×4m×3m | N/A | 05/13/2016 | 05/12/2017 |

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:

ENGINEER

REVIEWED BY:

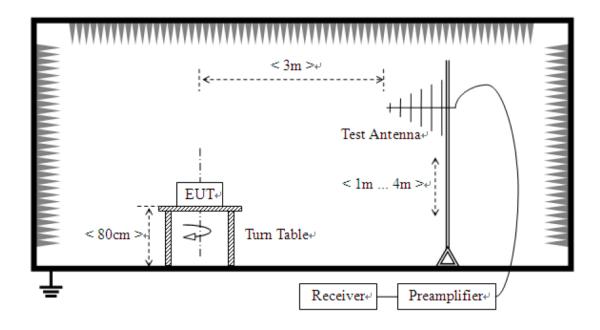
SENIOR ENGINEER

Conducted Emission Test Set-up:

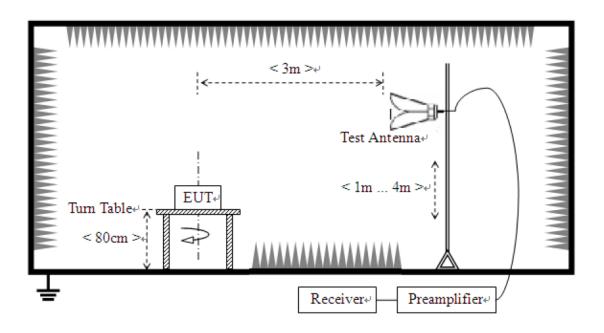


ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

| CLIENT: | Guangdong Galanz Enterprises Co Ltd. | FCC Part 18 | | |
|---------------------------|--|--|--|--|
| MODEL NUMBERS: | P100D48X- Y,RED(X)0(Y)H-(Z) | PRODUCT: | Microwave Oven | |
| MODEL TESTED: | P100D48AL-JC | EUT DESIGNATION: | Home or Office | |
| TEMPERATURE: | 22°C | HUMIDITY: | 63%RH | |
| ATM PRESSURE: | 103.0kPa | GROUNDING: | Through AC Power Cord | |
| TESTED BY: | Daomen Guan | DATE OF TEST: | February 08th,2017 | |
| 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 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 requirement range (pre-scanger) performed and the sign performed and the sign peak detection mode from a 1GHz. gnificant emission frequentable and antenna correct in limits. Explanation of the sign performed and antenna correct in limits. | on a 1m *1.5m ve the ground. The table is ceiver peak scan was in an Anechoic chamber. ificant peaks marked. All in 30 MHz to 1GHz and incies, measured levels, tion factors), and the | |
| TESTED RANGE: | 30MHz to 24.5GHz | | | |
| TEST VOLTAGE: | 120VAC / 60Hz | | | |
| RESULTS: | The EUT meet the requirement test results relate only to the | | | |
| CHANGES OR MODIFICATIONS: | There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen) test personnel. | | | |
| M. UNCERTAINTY: | The maximum measurement 30~1000MHz: 3.20dB; 1~25GHz: 3.52dB | 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/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] | | |
| 44.04 | V | / | / | 30.02 | -40.67 | 70.69 | | |
| 65.80 | V | / | / | 21.95 | -48.74 | 70.69 | | |
| 112.48 | V | / | / | 20.84 | -49.85 | 70.69 | | |
| 43.68 | Н | / | / | 28.80 | -41.89 | 70.69 | | |
| 74.92 | Н | / | / | 20.58 | -50.11 | 70.69 | | |
| 549.36 | Н | / | / | 18.91 | -51.78 | 70.69 | | |

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] |
|--------------------|----------------------------------|----------------------------------|----------------|-------------------------------|-------------------|--------------------------------|
| 2.199 | V | / | / | 36.21 | -34.48 | 70.69 |
| 4.955 | V | / | / | 50.00 | -20.49 | 70.69 |
| 7.431 | V | / | / | 53.83 | -16.86 | 70.69 |
| 9.912 | V | / | / | 55.55 | -15.14 | 70.69 |
| 2.210 | Н | / | / | 37.60 | -33.09 | 70.69 |
| 4.954 | Н | / | / | 51.09 | -19.60 | 70.69 |
| 7.426 | Н | / | / | 50.93 | -19.76 | 70.69 |
| 8.643 | Н | / | / | 49.34 | -21.35 | 70.69 |

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 Receiver | SCHAFFNER | SMR4503 | 44 | 2016-10-26 | 2017-10-26 |
| Horn Antenna | ETS | 3115 | 6587 | 2016-10-24 | 2017-10-24 |
| Broadband Antenna | ETS | 3142C | 00042672 | 2016-10-24 | 2017-10-24 |
| Band-pass Filter | Micro-Tronic | BRM50702 | 030 | 2016-12-22 | 2017-12-22 |
| Spectrum Analyzer | R&S | FSP30 | 100755 | 2016-11-20 | 2017-11-20 |
| 3m Anechoic chamber | ETS | RFD-F-100 | 3187 | 2016-05-20 | 2017-05-20 |

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:

ENGINEER

REVIEWED BY:

SENIOR ENGINEER

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



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

