

EMC TEST REPORT

For

Microwave Oven

Model Number: MEW60A-A, MEW60A-B
FCC ID: NRTSZJENSMWO30LA

Report Number : WT108001163

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TEST REPORT DECLARATION

Applicant : Shenzhen Jens Electric Co., Ltd.
Address : Block 71, Changxing Industrial Zone, Gongming Town, Baoan, Shenzhen, China.
Manufacturer : Shenzhen Jens Electric Co., Ltd.
Address : Block 71, Changxing Industrial Zone, Gongming Town, Baoan, Shenzhen, China.
EUT Description : Microwave oven
Model Number : MEW60A-A, MEW60A-B
FCC ID : NRTSZJENSMWO30LA

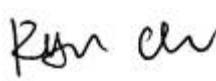
Test Standards:

FCC Part 18 18.301, 18.305, 18.307

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003), FCC MP-5 and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 18.301, 18.305, 18.307.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

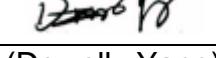
Tested by:


(Ryan Chen)

Date:

Aug.09.2010

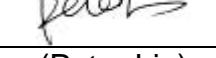
Checked by:


(Dewelly Yang)

Date:

Aug.09.2010

Approved by:


(Peter Lin)

Date:

Aug.09.2010

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

| Test Items | FCC Rules | Test Results |
|-----------------------|-----------|--------------|
| Conducted Disturbance | 18.307 | Pass |
| Radiated disturbance | 18.305 | Pass |
| Operating Frequency | 18.301 | Pass |

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 97379(open area test site) and 274801(semi anechoic chamber).

The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (VCCI), and the registration number are R-1974 (open area test site), R-1966 (semi anechoic chamber), C-2117 (mains ports conducted interference measurement) and T-180 (telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is IC4174.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

2.3. Measurement Uncertainty

Conducted Emission
9kHz~30MHz 3.5dB

Radiated Emission
30MHz~1000MHz 4.5dB
1GHz~18GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1. EUT Description

Description : Microwave oven
Applicant : MEW60A-A, MEW60A-B
Model Number : Shenzhen Jens Electric Co., Ltd.
Input : AC120V/60Hz
Rated Microwave Power : 1000W
Magnetron : JENS JM001

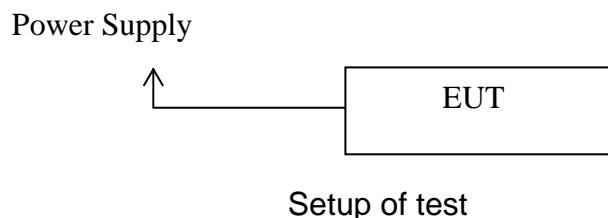
Remark: The sameness and differences between MEW60A-A and MEW60A-B are as follows:

- 1, Above two models belong to the same series products, most relevant parameter, such as microwave input power, output power, cavity capacity, interlock switch, and all safety component, are exactly the same.
- 2, Above two products are all digital controlled.
- 3, The difference between both models:
The model name, control board and oven door's appearance.

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: NRTSZJENSMWO30LA filing to comply with Section 18.301, 18.305, 18.307 of the FCC Part 18, Subpart C Rules.

3.3. Block Diagram of EUT Configuration



3.4. Operating Condition of EUT

Test mode 1: Full power microwave output

3.5. Support Equipment

N/A

3.6. Test Conditions

Date of test: Jul.08, 2010-Jul.20, 2010

Date of EUT Receive: Jul.05, 2010

Temperature: 22-27 °C

Relative Humidity: 46-61%

3.7. Modifications

No modification was made.

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

Table 2 Conducted Disturbance Test Equipment

| No. | Equipment | Manufacturer | Model No. | Last Cal. | Cal. Interval |
|--------|-------------------|-----------------|-----------|--------------|---------------|
| SB2603 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | Jan.22, 2010 | 1 Year |
| SB4357 | AMN | Rohde & Schwarz | ESH2-Z5 | Jan.22, 2010 | 1 Year |

4.2. Test Equipment Used to Measure Radiated Disturbance

Table 3 Radiated Disturbance Test Equipment

| No. | Equipment | Manufacturer | Model No. | Last Cal. | Cal. Interval |
|--------|-------------------|-----------------|-----------|--------------|---------------|
| SB3436 | EMI Test Receiver | Rohde & Schwarz | ESI26 | Jan.22, 2010 | 1 Year |
| SB3440 | Bilog Antenna | Chase | CBL6112B | Jan.22, 2010 | 1 Year |
| SB3435 | Horn Antenna | Rohde & Schwarz | HF906 | Jan.22, 2010 | 1 Year |

4.3. Test Equipment Used to Measure Input Power

Table 4 Input Power Test Equipment

| No. | Equipment | Manufacturer | Model No. | LAST CALIB | Period |
|-----------|--|--------------|-------------------|-------------|--------|
| SB2588 | Power | CI | 5001ix-CTS-400 | Jan.25,2010 | 1 Year |
| SB2588/01 | Three Phase Harmonic flicker test system | CI | PACS-3 | Jan.25,2010 | 1 Year |
| SB2588/02 | Power | CI | 5001ix-CTS-400-NO | Jan.25,2010 | 1 Year |
| SB2588/03 | Power | CI | 5001ix-CTS-400-NO | Jan.25,2010 | 1 Year |

5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1. Test Standard

FCC Part 18

5.1.2. Test Limit

Table 5 Conducted Disturbance Test Limit (Part 18 consumer device)

| Frequency | Limit (dB μ V) | |
|---------------|--------------------|---------------|
| | Quasi-peak Level | Average Level |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

* Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

The EUT was set up according to the guideline of ANSI C63.4: 2003 & FCC MP-5 for conducted emissions. The EUT is put on a table of non-conducting material that is 40cm high. The vertical conducting wall of shielding is located 80cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in below are too low against the limits, the test curves are shown in the APPENDIX I

Table 6 Conducted Disturbance Test Data

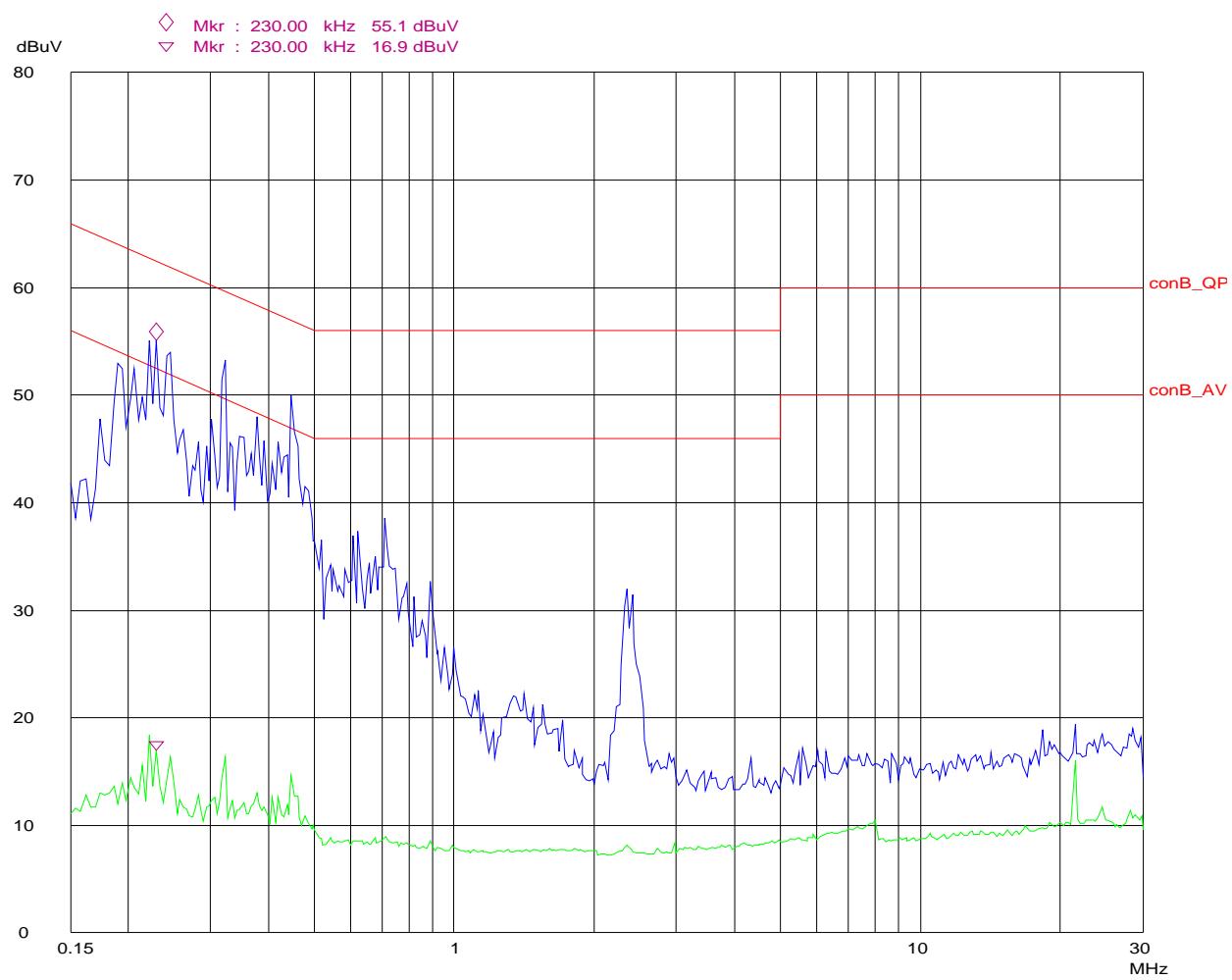
Model No.: MEW60A-A

Test Mode: 1

| Frequency (MHz) | Line | | | | Neutral | | | | |
|--------------------|-------------------------|-----------------------|-------------------------|-----------------------|--------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| | Quasi-Peak | | Average | | Frequency (MHz) | Quasi-Peak | | Average | |
| | Reading (dB μ V) | Limit (dB μ V) | Reading (dB μ V) | Limit (dB μ V) | | Reading (dB μ V) | Limit (dB μ V) | Reading (dB μ V) | Limit (dB μ V) |
| 0.194 | 42.4 | 63.9 | 12.7 | 53.9 | 0.162 | 47.2 | 65.4 | 13.5 | 55.4 |
| 0.246 | 47.3 | 61.9 | 17.1 | 51.9 | 0.174 | 45.7 | 64.8 | 16.0 | 54.8 |
| 0.322 | 42.9 | 59.7 | 14.7 | 49.7 | 0.20 | 239.8 | 63.5 | 12.0 | 53.5 |
| 0.378 | 38.6 | 58.3 | 11.2 | 48.3 | 0.246 | 34.1 | 61.9 | 11.8 | 51.9 |
| 0.446 | 39.1 | 56.9 | 12.8 | 46.9 | 0.450 | 39.3 | 56.9 | 13.0 | 46.9 |
| 0.710 | 28.2 | 56 | 8.7 | 46 | 0.906 | 24.6 | 56 | 9.1 | 46 |

Conducted Disturbance

EUT: M/N:MEW60A-A
Op Cond: Full power microwave output
Test Spec: L
Comment: AC 120V/60Hz



Conducted Disturbance

EUT: M/N:MEW60A-A
Op Cond: Full power microwave output
Test Spec: N
Comment: AC 120V/60Hz

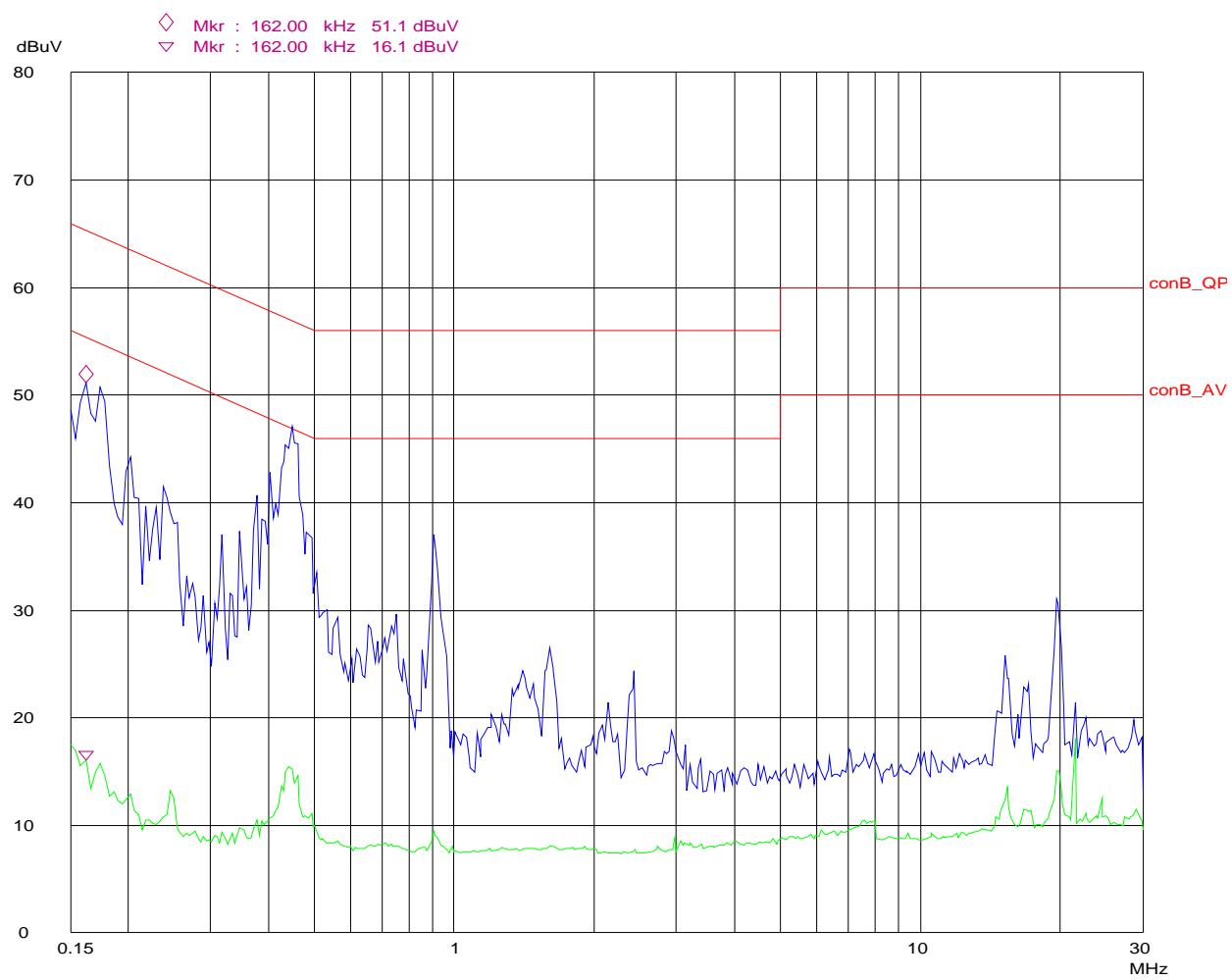


Table 7 Conducted Disturbance Test Data

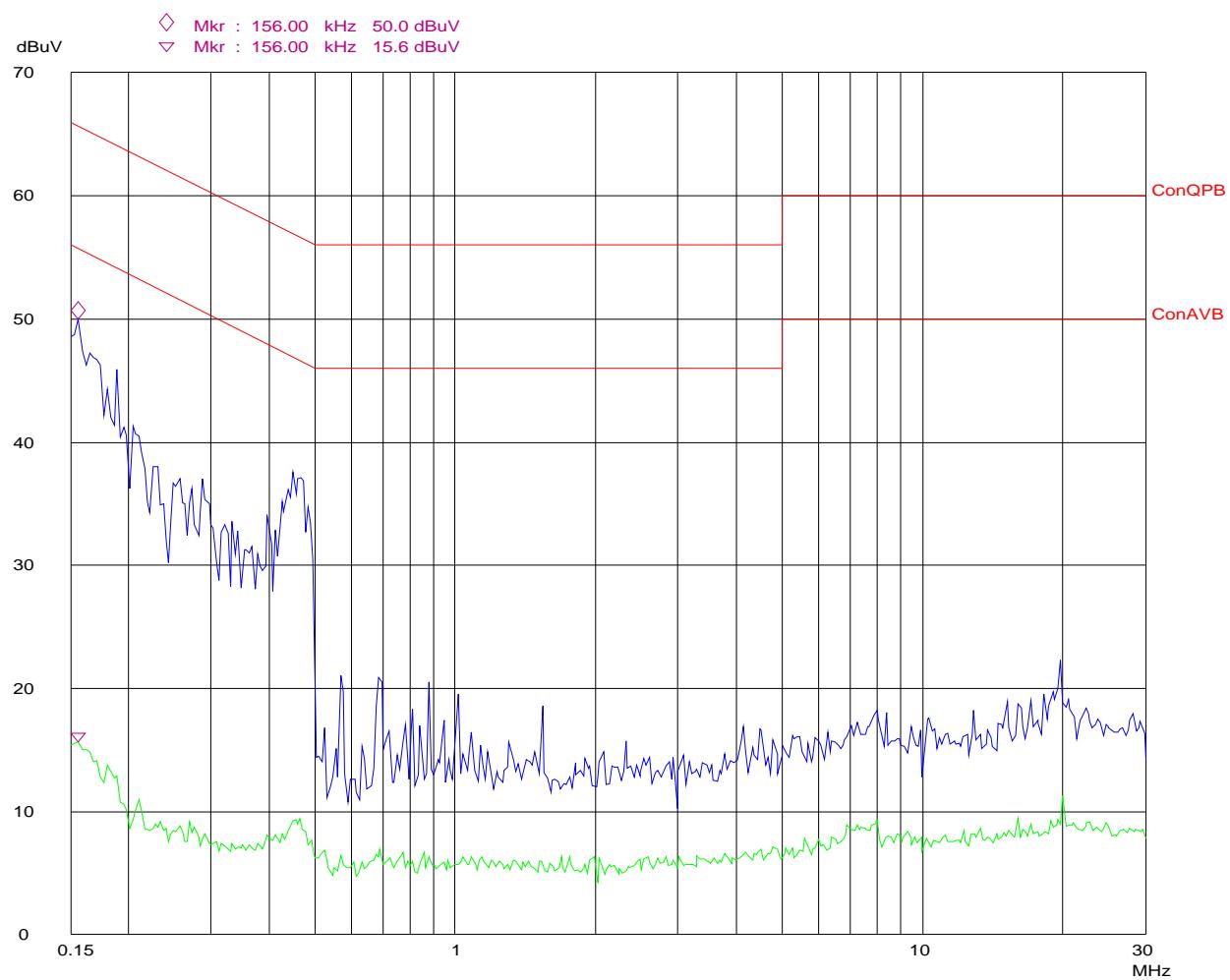
Model No.: MEW60A-B

Test Mode: 1

| Frequency (MHz) | Line | | | | Neutral | | | | |
|--------------------|-------------------------|-----------------------|-------------------------|-----------------------|--------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| | Quasi-Peak | | Average | | Frequency (MHz) | Quasi-Peak | | Average | |
| | Reading (dB μ V) | Limit (dB μ V) | Reading (dB μ V) | Limit (dB μ V) | | Reading (dB μ V) | Limit (dB μ V) | Reading (dB μ V) | Limit (dB μ V) |
| 0.156 | 39.8 | 65.7 | 15.6 | 55.7 | 0.153 | 31.1 | 65.8 | 11.8 | 55.8 |
| 0.171 | 38.2 | 64.9 | 16.5 | 54.9 | 0.192 | 32.1 | 63.9 | 9.6 | 53.9 |
| 0.189 | 35.3 | 64.1 | 15.7 | 54.1 | 0.225 | 32.5 | 62.6 | 9.9 | 52.6 |
| 0.210 | 33.5 | 63.2 | 14.5 | 53.2 | 0.331 | 27.9 | 59.4 | 8.3 | 49.4 |
| 0.450 | 32.3 | 56.9 | 13.9 | 46.9 | 0.399 | 28.1 | 57.9 | 8.2 | 47.9 |
| 0.483 | 25.5 | 56.3 | 12.4 | 46.3 | 0.456 | 28.5 | 56.8 | 8.1 | 46.8 |

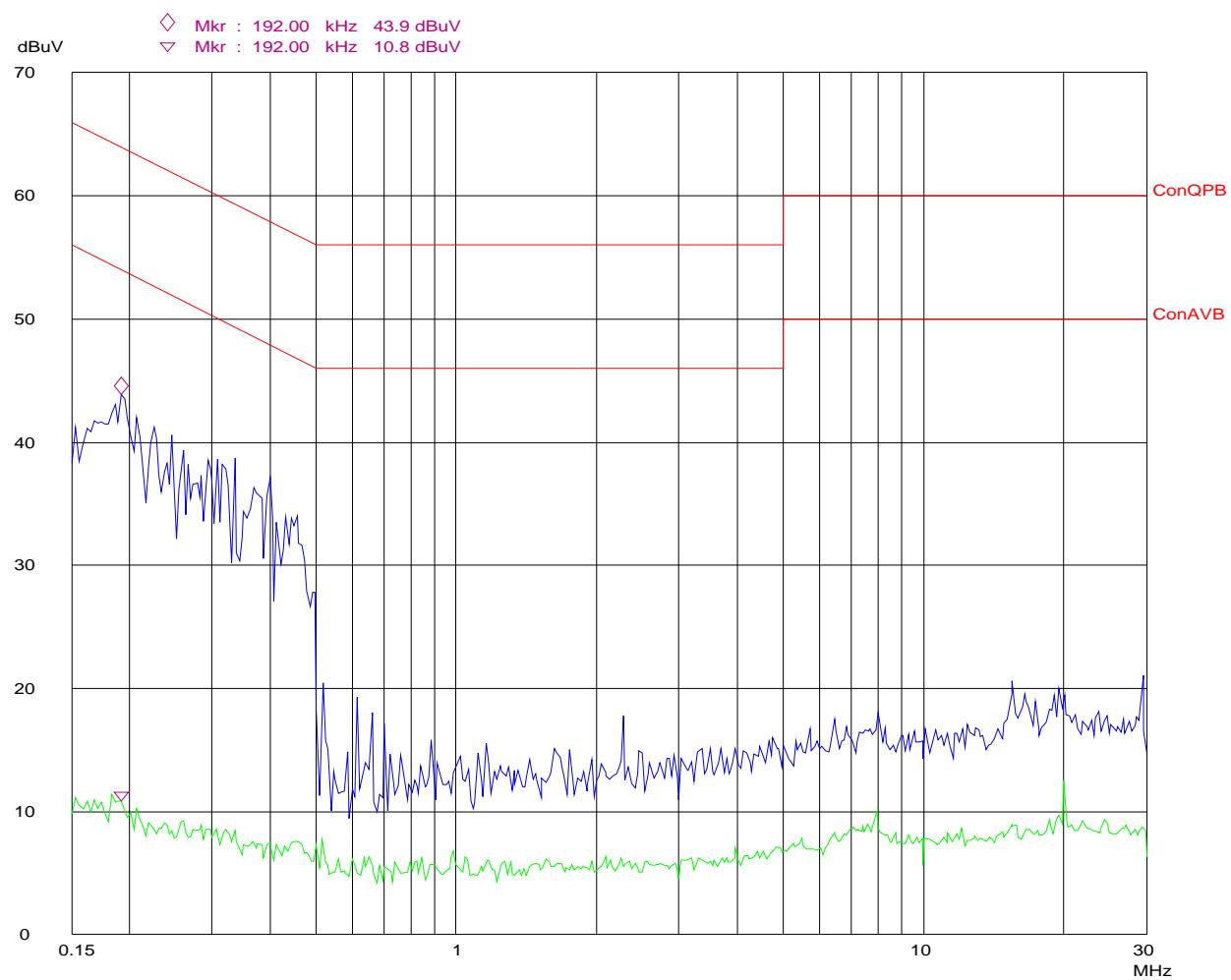
Conducted Disturbance

EUT: M/N:MEW60A-B
Op Cond: Full power microwave output
Test Spec: L
Comment: AC 120V/60Hz



Conducted Disturbance

EUT: M/N:MEW60A-B
Op Cond: Full power microwave output
Test Spec: N
Comment: AC 120V/60Hz



6. INPUT POWER MEASUREMENT

6.1. TEST PROCEDURE

The EUT was set up according to the FCC MP-5 and FCC Part 18 for Input power measurement. Input power and current was measured using a power analyzer. A 1000ml water load was placed in the center of the oven and oven was operated at maximum output power.

A 1000ml water load was chosen for its compatibility with the procedure commonly used by manufacturers to determine their input ratings.

6.2. Test Data

Model No.: MEW60A-A

Magnetron type: JENS JM001

| Input Voltage (Vac/Hz) | Measured Input Power (watts) | Rated Input Power (watts) |
|---------------------------|---------------------------------|------------------------------|
| 120/60 | 1640 | 1550 |

Model No.: MEW60A-B

Magnetron type: JENS JM001

| Input Voltage (Vac/Hz) | Measured Input Power (watts) | Rated Input Power (watts) |
|---------------------------|---------------------------------|------------------------------|
| 120/60 | 1620 | 1550 |

7. RF POWER OUTPUT MEASUREMENT AND RESULT

The Calorimetric Method was used to determine maximum output power. A 1000 ml water load was placed in the center of the oven. A thermometer was used to measure temperature rise.

$$Power(W) = \frac{(4.2 \text{ Joules/Cal}) * (VolumeInml) * (TemperatureRise)}{TimeinSeconds}$$

Model No.: MEW60A-A

Magnetron type: JENS JM001

| Quantity of Water(ml) | Starting Temperature (°C) | Final Temperature (°C) | Elapsed Time(Second) |
|-----------------------|---------------------------|------------------------|----------------------|
| 1000 | 21.7 | 47.6 | 120 |

$$Power(W) = \frac{(4.2) * (1000) * (25.9)}{120}$$

Power (W) =906.5

Model No.: MEW60A-B

Magnetron type: JENS JM001

| Quantity of Water(ml) | Starting Temperature (°C) | Final Temperature (°C) | Elapsed Time(Second) |
|-----------------------|---------------------------|------------------------|----------------------|
| 1000 | 27.9 | 53.8 | 120 |

$$Power(W) = \frac{(4.2) * (1000) * (25.8)}{120}$$

Power (W) =903.0

8. RADIATED DISTURBANCE TEST

8.1. Test Standard and Limit

8.1.1. Test Standard

FCC Part 18

8.1.2. Test Limit

Table 8 Radiated Disturbance Test Limit

| Operating Frequency | RF Power generated by equipment(watts) | Field strength limit (μ V/m) | Distance (m) |
|---------------------|--|---|--------------|
| Any ISM Frequency | Below 500 | 25 | 300 |
| | 500 or more | $25 \times \text{SQRT}(\text{power}/500)$ | 300 |

8.2. Test Procedure

The EUT was set up according to the guideline of ANSI C63.4: 2003 & FCC MP-5 for radiated emissions. The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | R B/W | Video B/W | IF B/W |
|---------------------------|---------|-----------|----------|
| 30 – 1000 MHz | 100 kHz | 300 kHz | 120 kHz |
| Above 1 GHz | 1 MHz | 30Hz | |
| Start Frequency..... | | | 1 GHz |
| Stop Frequency..... | | | 24.5 GHz |
| Sweep Speed..... | | | Auto |
| Video Bandwidth..... | | | 30 Hz |
| Resolution Bandwidth..... | | | 1 MHz |

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz and average detection mode above 1GHz.

8.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

8.4. Field strength limit

| Model No.: MEW60A-A | | |
|---------------------|---|-------------|
| RF output power (W) | LFS | dB(uV/M)@3m |
| 906.5 | $\begin{aligned} \text{LFS} &= 25 \times \text{SQRT}(\text{power output} / 500) \\ &= 25 \times \text{SQRT}(906.5 / 500) \\ &= 33.66 \end{aligned}$ | 70.5 |

| Model No.: MEW60A-B | | |
|---------------------|---|-------------|
| RF output power (W) | LFS | dB(uV/M)@3m |
| 903.0 | $\begin{aligned} \text{LFS} &= 25 \times \text{SQRT}(\text{power output} / 500) \\ &= 25 \times \text{SQRT}(903.0 / 500) \\ &= 33.60 \end{aligned}$ | 70.5 |

8.5. Test Data

Emissions don't show below are too low against the limits, the data was shown the worst case only.

Table 9 Radiated Disturbance Test Data

| Model No.: MEW60A-A | | | | | | |
|---------------------|-------------------------------------|------------|-------------------|-----------------------|------------------|---------------------------|
| Test Mode: 1 | | | | | | |
| Frequency MHz | Emission Level dB(μ V/m) | Cable loss | Antenna factor | Reading dB μ V | Polarizatio n | Limits dB (μ V/m) |
| 104.008 | 25.8 | 1.6 | 12.3 | 11.9 | Horizontal | 70.5 |
| 247.292 | 24.2 | 2.7 | 12.7 | 8.8 | Horizontal | 70.5 |
| 346.693 | 21.1 | 3.2 | 15.4 | 2.5 | Horizontal | 70.5 |
| 415.030 | 37.2 | 3.3 | 17.3 | 16.6 | Horizontal | 70.5 |
| 2217.292 | 30.2 | -32.2 | 28.5 | 33.9 | Horizontal | 70.5 |
| 4883.541 | 43.3 | -31.0 | 33.3 | 41.0 | Horizontal | 70.5 |
| 54.268 | 23.9 | 1.2 | 6.3 | 16.4 | Vertical | 70.5 |
| 165.330 | 22.7 | 2.2 | 10.6 | 9.9 | Vertical | 70.5 |
| 472.745 | 26.7 | 3.6 | 17.6 | 5.5 | Vertical | 70.5 |
| 2214.779 | 34.5 | -32.2 | 28.5 | 38.2 | Vertical | 70.5 |
| 2686.132 | 32.5 | -31.8 | 29.9 | 34.4 | Vertical | 70.5 |
| 4886.346 | 60.2 | -31.0 | 33.3 | 57.9 | Vertical | 70.5 |

Table 10 Radiated Disturbance Test Data

| Model No.: MEW60A-B | | | | | | |
|---------------------|-------------------------------------|------------|-------------------|-----------------------|------------------|---------------------------|
| Test Mode: 1 | | | | | | |
| Frequency MHz | Emission Level dB(μ V/m) | Cable loss | Antenna factor | Reading dB μ V | Polarizatio n | Limits dB (μ V/m) |
| 47.453 | 23.2 | 1.2 | 9.4 | 12.6 | Vertical | 70.5 |
| 101.410 | 35.2 | 1.6 | 12.3 | 21.3 | Vertical | 70.5 |
| 118.022 | 28.4 | 1.9 | 12.7 | 13.8 | Vertical | 70.5 |
| 2279.879 | 27.8 | -32.2 | 28.5 | 31.5 | Vertical | 70.5 |
| 2541.921 | 31.7 | -31.8 | 29.9 | 33.6 | Vertical | 70.5 |
| 4923.360 | 57.5 | -31.0 | 33.3 | 55.2 | Vertical | 70.5 |
| 8623.705 | 61.1 | -28.3 | 37.5 | 51.9 | Vertical | 70.5 |
| 103.867 | 24.5 | 1.6 | 12.3 | 10.6 | Horizontal | 70.5 |
| 1232.701 | 47.7 | -32.3 | 25.1 | 54.9 | Horizontal | 70.5 |
| 2317.306 | 27.8 | -32.2 | 28.5 | 31.5 | Horizontal | 70.5 |
| 2520.478 | 29.6 | -31.8 | 29.9 | 31.5 | Horizontal | 70.5 |
| 4928.511 | 51.9 | -31.0 | 33.3 | 49.6 | Horizontal | 70.5 |
| 8616.887 | 36.5 | -28.3 | 37.5 | 27.3 | Horizontal | 70.5 |

9. OPERATING FREQUENCY TEST

9.1. Test Standard

9.1.1. Test Standard

FCC Part 18

9.2. Test Procedure

The EUT was set up according to the FCC MP-5 and FCC Part 18 for Operating frequency measurement.

1) Variation in Operating Frequency with Time

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000ml water load was placed in the center of 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) Variation in Operating Frequency with Line Voltage

The EUT was operated/ warmed by at least 10minutes 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.

9.3. Test Data

Table 11 Variation in Operating Frequency with Time (MEW60A-A)

| Minimum Frequency (MHz) | Maximum Frequency (MHz) |
|-------------------------|-------------------------|
| 2408.1 | 2482.3 |

Table 12 Variation in Operating Frequency with Line Voltage (MEW60A-A)

| Minimum Frequency (MHz) | Maximum Frequency (MHz) |
|-------------------------|-------------------------|
| 2405.4 | 2483.8 |

Note: Line voltage varied from 96Vac to 150Vac

Table 13 Variation in Operating Frequency with Time (MEW60A-B)

| Minimum Frequency (MHz) | Maximum Frequency (MHz) |
|-------------------------|-------------------------|
| 2401.3 | 2461.6 |

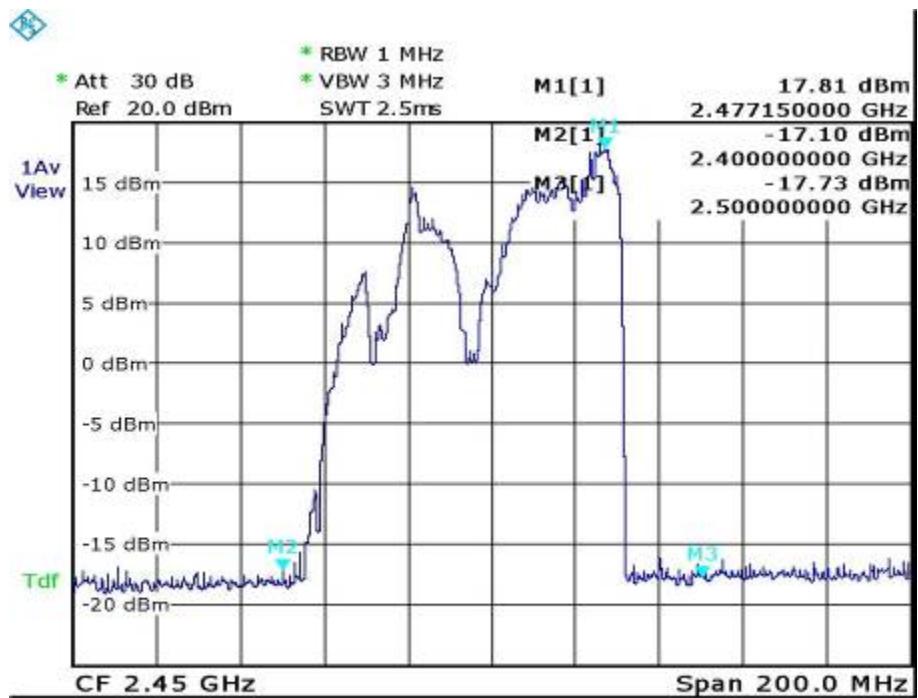
Table 14 Variation in Operating Frequency with Line Voltage (MEW60A-B)

| Minimum Frequency (MHz) | Maximum Frequency (MHz) |
|-------------------------|-------------------------|
| 2403.4 | 2468.8 |

Note: Line voltage varied from 96Vac to 150Vac

Operating Frequency

MEW60A-A



MEW60A-B

