



FCC PART 18  
TEST REPORT

For

**Whirlpool Microwave Products Development Limited.**

16/F, Paliburg Plaza 68 Yee Woo Street, Causeway Bay, Hong Kong

**FCC ID: PR4REDACU2Y**

<b>Report Type:</b> Class II Permissive Change	<b>Product Type:</b> Microwave Oven
<b>Report Number:</b> <u>RSZ200519557-EM-00</u>	
<b>Report Date:</b> <u>2020-07-23</u>	
<b>Reviewed By:</b> <u>EMC Engineer</u>	<u>Joson Xiao</u>
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## TABLE OF CONTENTS

<b>GENERAL INFORMATION.....</b>	<b>3</b>
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	3
OBJECTIVE.....	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY.....	3
MEASUREMENT UNCERTAINTY.....	4
TEST FACILITY.....	4
<b>OPERATING CONDITION/TEST CONFIGURATION.....</b>	<b>5</b>
JUSTIFICATION.....	5
EUT EXERCISE SOFTWARE.....	5
SPECIAL ACCESSORIES.....	5
EQUIPMENT MODIFICATIONS.....	5
SUPPORT EQUIPMENT LIST AND DETAILS.....	5
EXTERNAL CABLE LIST AND DETAILS.....	5
CONFIGURATION OF TEST SETUP.....	5
BLOCK DIAGRAM OF TEST SETUP.....	6
<b>SUMMARY OF TEST RESULT.....</b>	<b>7</b>
<b>TEST EQUIPMENT LIST.....</b>	<b>8</b>
<b>CONDUCTED EMISSIONS.....</b>	<b>10</b>
APPLICABLE STANDARD.....	10
EUT SETUP.....	10
EMI TEST RECEIVER SETUP.....	10
TEST PROCEDURE.....	11
TEST DATA.....	11
<b>RADIATION HAZARD MEASUREMENT.....</b>	<b>14</b>
APPLICABLE STANDARD.....	14
ENVIRONMENTAL CONDITIONS.....	14
RADIATION HAZARD MEASUREMENT.....	14
INPUT POWER.....	14
LOAD FOR MICROWAVE OVENS.....	15
RF OUTPUT POWER MEASUREMENT.....	15
OPERATING FREQUENCY MEASUREMENT.....	17
<b>RADIATED EMISSIONS.....</b>	<b>20</b>
APPLICABLE STANDARD.....	20
EUT SETUP.....	20
EMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP.....	21
TEST PROCEDURE.....	21
CORRECTED AMPLITUDE & MARGIN CALCULATION.....	21
TEST DATA AND PLOTS.....	21

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product	Microwave Oven
Tested Model	YWMH53521
Voltage Range	AC 120V/60Hz
Highest operating frequency	2450 MHz
Microwave output power	900 Watts
Input power	1500 Watts
Date of Test	2020-07-15 & 2020-07-16
Sample serial number	RSZ200519557-EM-S1( Assigned by Shenzhen BAACL)
Received date	2020-05-19
Sample/EUT Status	Good condition

### Objective

This report is prepared on behalf of *Whirlpool Microwave Products Development Limited*. in accordance with Part 2-Subpart J, and Part 18-Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

This is a CIIPC application of the device, the difference between the original device and current one described as following:

(1) Adding new Magnetron, by LG, Type 2M226.

Based on the change made to the device, all the test items were performed.

### Related Submittal(s)/Grant(s)

No related submittal(s).

### Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986. All measurements were performed at Bay Area Compliance Laboratory Corporation. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

**Measurement Uncertainty**

Parameter		uncertainty
Conducted Emissions		±1.95dB
Radiated Emissions	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

**Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

## OPERATING CONDITION/TEST CONFIGURATION

### Justification

The EUT was operated at maximum (continuous) RF output power. The loads consisted of water in a glass beaker in the amounts specified in the test procedure.

### EUT Exercise Software

No exercise software was used.

### Special Accessories

No special accessory was used.

### Equipment Modifications

No modifications were made to the EUT tested.

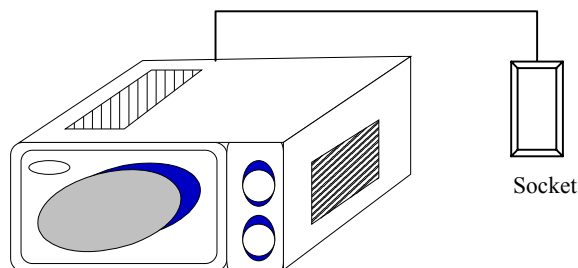
### Support Equipment List and Details

Manufacturer	Device Name	Model	Serial Number
BULL	Socket	GN-606D	Unknown
Unknown	Glass beaker	Unknown	Unknown

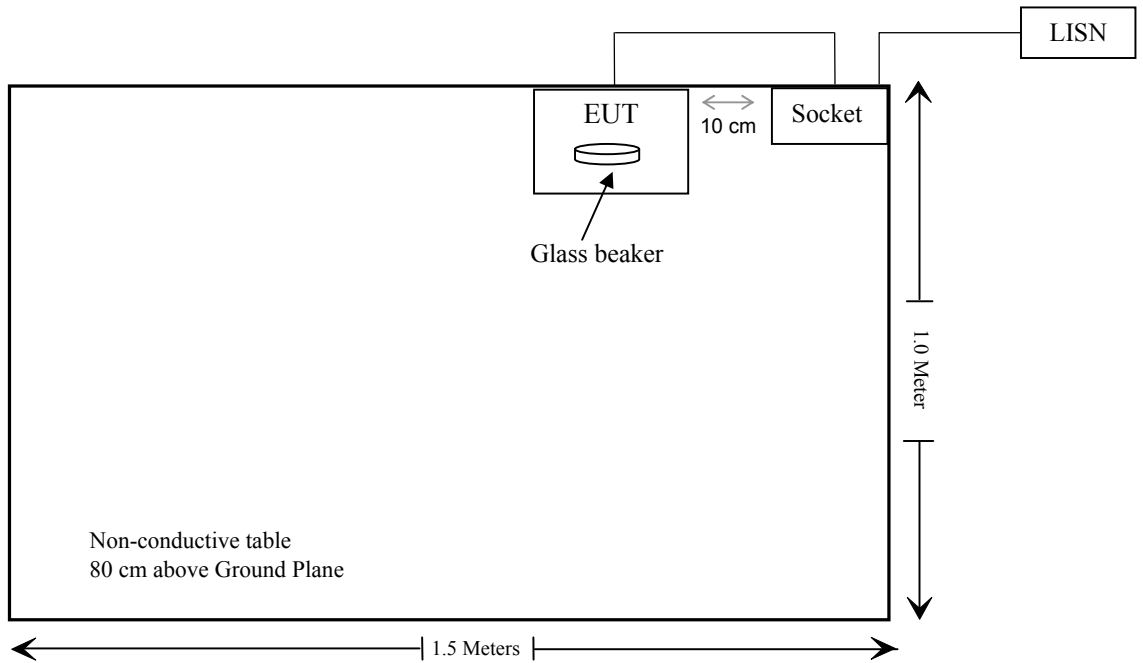
### External Cable List and Details

Cable Description	Length (m)	From/Port	To
Un-shielding Un-detachable AC Cable	1.0	Socket	EUT
Un-shielding Un-detachable AC Cable	1.0	LISN	Socket

### Configuration of Test Setup



**Block Diagram of Test Setup**



**SUMMARY OF TEST RESULT**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Results</b>
§18.307	AC Line Conducted Emissions	Compliance
FCC/OST MP-5 FCC §18.301	Radiation Hazard Measurement	Compliance
§18.305	Field Strength	Compliance

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>CONDUCTED EMISSIONS</b>					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/7/9	2021/7/8
Rohde & Schwarz	LISN	ENV216	101613	2020/1/22	2021/1/21
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2019/11/29	2020/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2019/11/29	2020/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
<b>RADIATED EMISSIONS</b>					
R&S	EMI Test Receiver	ESR3	102455	2020/7/9	2021/7/8
Sonoma instrument	Pre-amplifier	310 N	186238	2020/4/20	2021/4/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017/12/22	2020/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2019/11/29	2020/11/28
Unknown	Cable	Chamber Cable 4	EC-007	2019/11/29	2020/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019/7/22	2020/7/21
COM-POWER	Pre-amplifier	PA-122	181919	2019/11/29	2020/11/28
COM-POWER	Amplifier	QLW-18405536-J0	15964001002	2019/11/29	2020/11/28
Sunol Sciences	Horn Antenna	DRH-118	A052604	2017/12/22	2020/12/21
the electro-Mechanics Co	Horn Antenna	3116	9510-2270	2019/10/13	2022/10/12
Insulated Wire Inc.	RF Cable	SPS-2503-3150	02222010	2019/11/29	2020/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2019/11/29	2020/11/28



Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>RADIATION HAZARD MEASUREMENT</b>					
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019/7/22	2020/7/21
Sunol Sciences	Horn Antenna	DRH-118	A052604	2017/12/22	2020/12/21
GW Instek	Power Meter	GPM 8212	CL110034	2020/4/9	2021/4/9
GW Instek	AC Power Meter	GPM 8212	CL110045	2020/5/3	2021/5/3
MC	Thermometer	Unknown	Unknown	2019/11/1	2020/11/1
ETS	Microwave Survery Meter	1501	F-03-EM166	2020/3/12	2021/3/11
CAMRY	Electronic Weighed	EK3820	Unknown	2019/11/2	2020/11/2
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2019/11/29	2020/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2019/11/29	2020/11/28

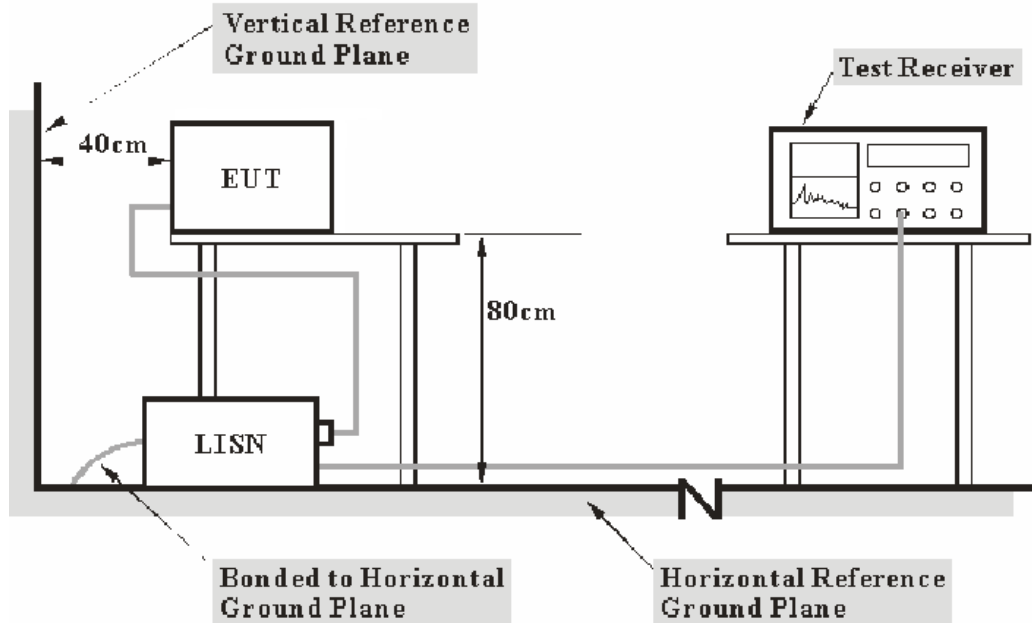
\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## CONDUCTED EMISSIONS

### Applicable Standard

FCC §18.307

### EUT Setup



- Note:**
1. Support units were connected to second LISN.
  2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18.

The socket was connected to a 120 VAC/ 60Hz power source.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

**Test Procedure**

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

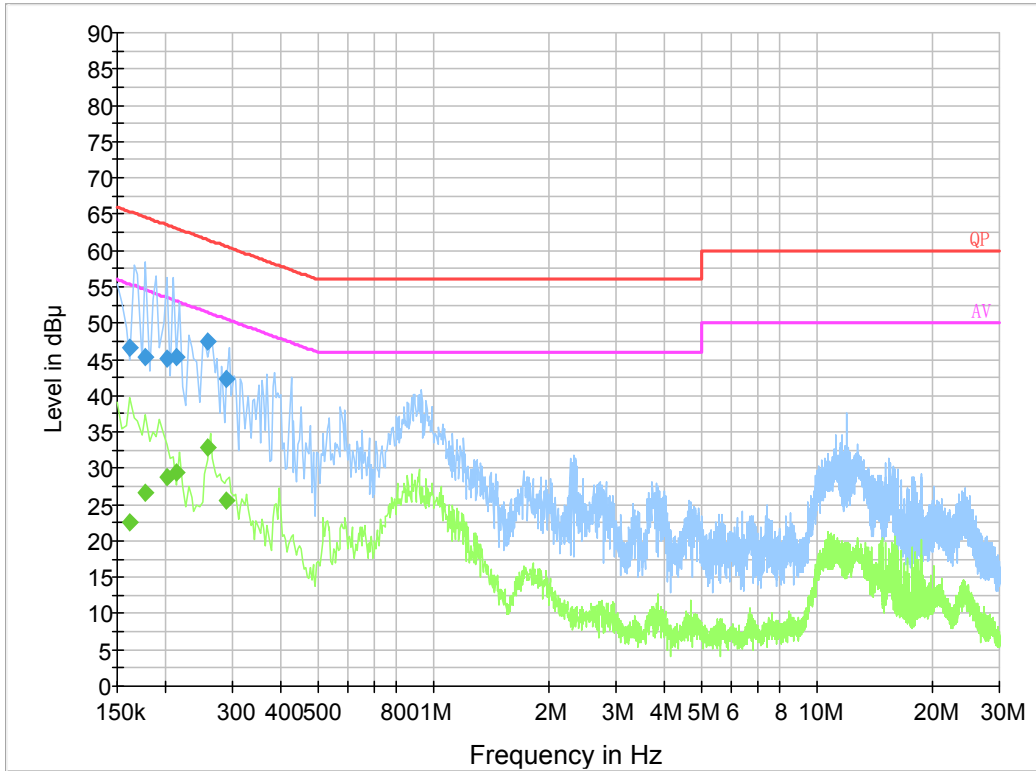
**Test Data****Environmental Conditions**

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	65 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Haiguo Li on 2020-07-16.*

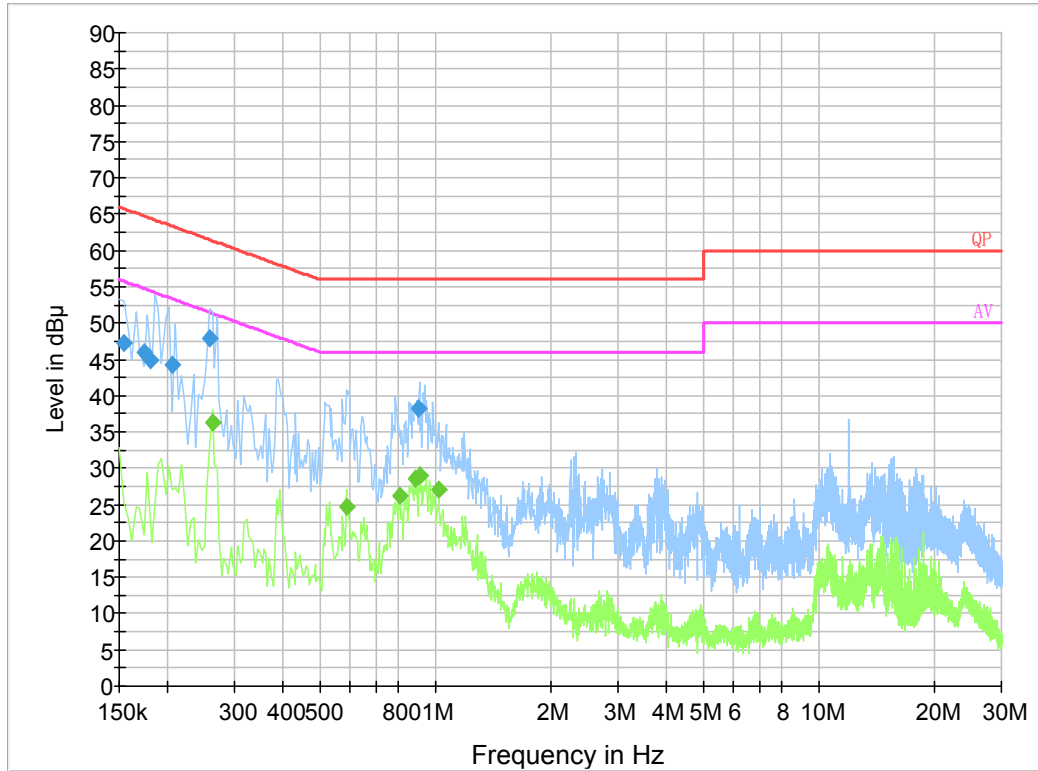
*EUT operation mode: Maxpower Cooking*

AC 120V/60Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.161500	46.7	19.9	65.4	18.7	QP
0.177500	45.3	19.9	64.6	19.3	QP
0.201500	45.2	19.8	63.5	18.3	QP
0.214501	45.4	19.8	63.0	17.6	QP
0.258500	47.5	19.8	61.5	14.0	QP
0.289500	42.2	19.7	60.5	18.3	QP
0.161500	22.6	19.9	55.4	32.8	Ave.
0.177500	26.7	19.9	54.6	27.9	Ave.
0.201500	28.9	19.8	53.5	24.6	Ave.
0.214501	29.5	19.8	53.0	23.5	Ave.
0.258500	32.8	19.8	51.5	18.7	Ave.
0.289500	25.5	19.7	50.5	25.0	Ave.

**AC 120V/60Hz, Neutral**



Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.154000	47.2	19.8	65.8	18.6	QP
0.173500	46.1	19.8	64.8	18.7	QP
0.181500	44.9	19.8	64.4	19.5	QP
0.205500	44.3	19.8	63.4	19.1	QP
0.257500	48.0	19.8	61.5	13.5	QP
0.908350	38.3	19.7	56.0	17.7	QP
0.262000	36.2	19.8	51.4	15.2	Ave.
0.586000	24.8	19.8	46.0	21.2	Ave.
0.810000	26.1	19.8	46.0	19.9	Ave.
0.886000	28.5	19.7	46.0	17.5	Ave.
0.910000	28.9	19.7	46.0	17.1	Ave.
1.022000	27.0	19.8	46.0	19.0	Ave.

**Note:**

- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation
- 3) Margin = Limit – Corrected Amplitude

## RADIATION HAZARD MEASUREMENT

### Applicable Standard

FCC §18.301 & FCC/OST MP-5

### Environmental Conditions

<b>Temperature:</b>	23 °C
<b>Relative Humidity:</b>	65 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Harris He and Andy Yu on 2020-07-15.*

### Radiation Hazard Measurement

Radiation leakage was measured in the as-received condition with the oven door closed using a microwave leakage meter.

A 275 mL water load was placed in the center of the oven and the oven was operated at maximum output power.

There was no microwave leakage exceeding a power level of 0.2mW/cm<sup>2</sup> observed at any point 5 cm or more from the external surface of the oven.

A maximum of 1.0 mW/cm<sup>2</sup> is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

### Input Power

Input power and current was measured using a power analyzer. A 1000 mL water load was placed in the center of the oven and the 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.

<b>Input Voltage (V<sub>AC</sub>/Hz)</b>	<b>Input Current (Amps)</b>	<b>Measured Input Power (Watts)</b>	<b>Rated Input Power (Watts)</b>
118.6	12.1	1435.06	1500

Based on the measured input power, the EUT was found to be operating within the intended specifications.

**Load for Microwave Ovens**

For all measurements, the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tap 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 1000 watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000 watts 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.

**RF Output Power Measurement**

A cylindrical container of borosilicate glass is used for the test. It has a maximum thickness of 3 mm, an external diameter of approximately 190 mm and a height of approximately 90 mm. The mass of the container is determined.

At the start of the test, the oven and the empty container are at ambient temperature. Water having an initial temperature of 10 °C ± 1 °C is used for the test. The water temperature is measured immediately before it is poured into the container.

A quantity of 1000 g ± 5 g of water is added to the container and its actual mass obtained. The container is then immediately placed in the centre of the oven shelf, which is in its lowest normal position. The oven is operated and the time for the water temperature to attain 20 °C ± 2 °C is measured. The oven is then switched off and the final water temperature is measured within 60 s.

m <sub>w</sub> (g)	m <sub>c</sub> (g)	T <sub>0</sub> (°C)	T <sub>1</sub> (°C)	T <sub>2</sub> (°C)	t (s)
1000	377.0	24.5	9.8	19.1	43

RF Output Power =  $(4.187 \times 1000 \times (19.1 - 9.8) + 0.55 \times 377.0 \times (19.1 - 24.5)) / 43 = 879.52$  Watts

- P is the microwave power output, in watts;
- m<sub>w</sub> is the mass of the water, in grams;
- m<sub>c</sub> is the mass of the container, in grams;
- T<sub>0</sub> is the ambient temperature, in degrees Celsius;
- T<sub>1</sub> is the initial temperature of the water, in degrees Celsius;
- T<sub>2</sub> is the final temperature of the water, in degrees Celsius;
- t is the heating time, in seconds, excluding the magnetron filament heating-up time.

The measurement output power was found to be less than 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared to the limit of 25µV/meter at a 300-meter measurement distance.

The measured output power was found to exceed 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared with the limit calculated as following:

$$LFS = 25 * \text{SQRT} (\text{Power Output}/500)$$

$$LFS = 25 * \text{SQRT} (879.52/500)$$

$$LFS = \underline{33.16}$$

Where: LFS is the maximum allowable field strength for out-of-band emissions in  $\mu\text{V}/\text{meter}$  at a 300-meter measurement distance. Power Output is the measured output power in watts.

LFS $\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@3\text{m}$
33.16	30.41	70.41

**Note:**  $\text{Limit} (\text{dB}\mu\text{V}/\text{m}@3\text{m}) = \text{Limit} (\text{dB}\mu\text{V}/\text{m}@300\text{m}) + 40(\text{dB})$



## Operating Frequency Measurement

### Variation in Operating Frequency with Time

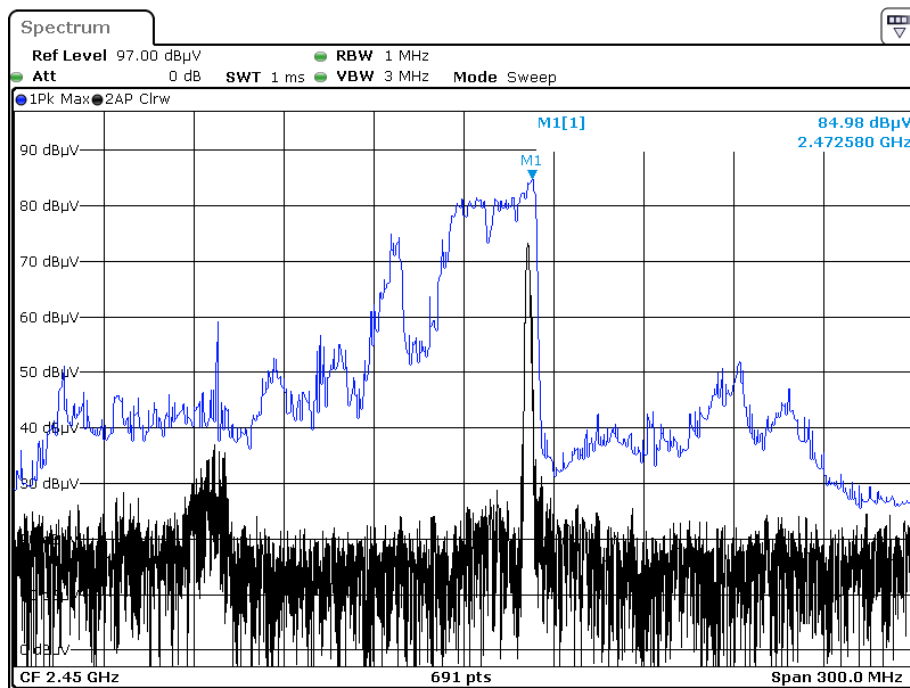
The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

The results of this test are as follows:

Frequency at Start time (MHz)	Frequency at End time (MHz)
2472.58	2472.58

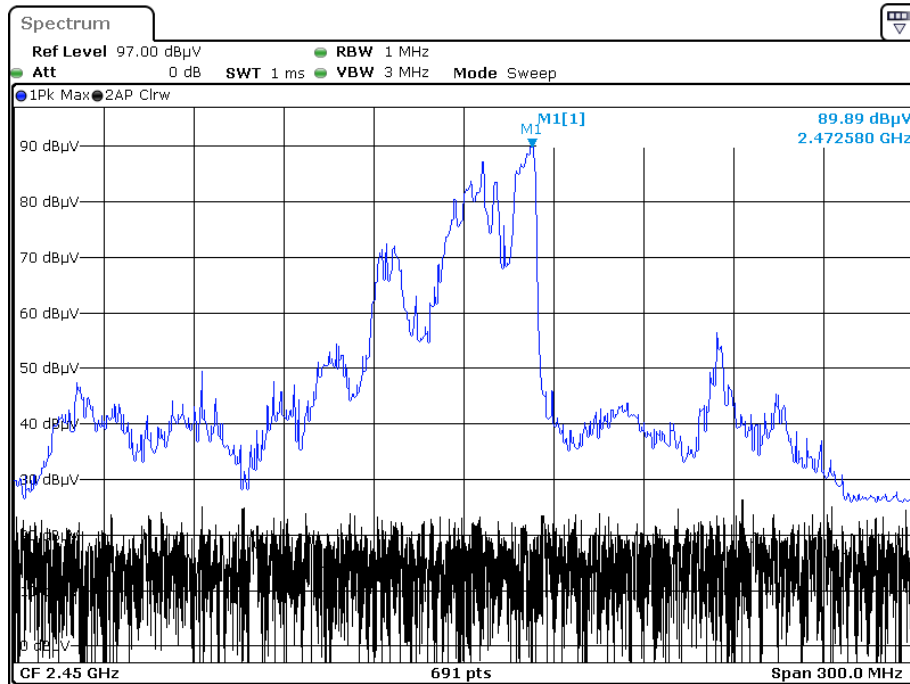
Refer to data pages for details of the variation in operating frequency with time measurement.

### Start time:



Date: 15.JUL.2020 08:33:29

**End time:**



Date: 15.JUL.2020 08:45:59

**Variation in Operating Frequency with Line Voltage**

The EUT was operated / warmed by at least 10 minutes of use with a 1000 mL 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.

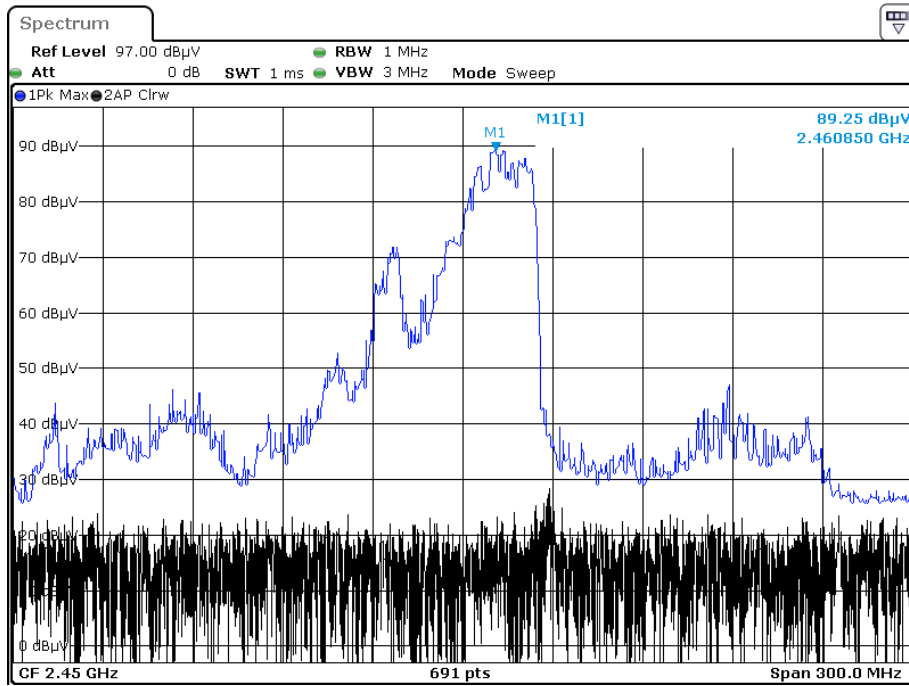
The results of this test are as follows:

Line voltage varied from 96 V<sub>AC</sub> to 150 V<sub>AC</sub>.

(Low voltage) Frequency (MHz)	(High voltage) Frequency (MHz)
2460.85	2473.01

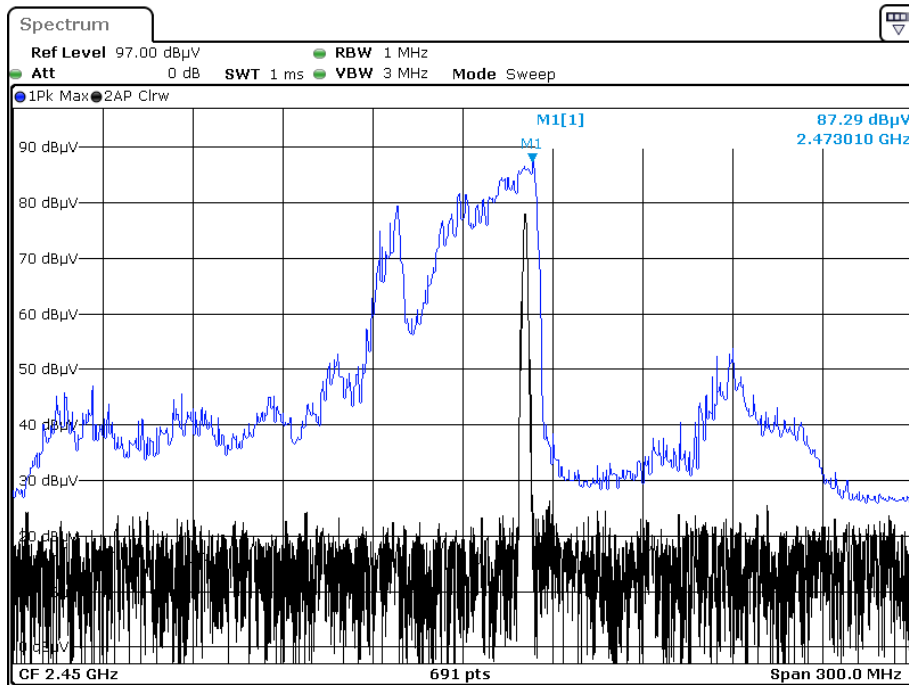
Please refer to following pages for details of the variation in operating frequency with line voltage measurement.

**Low Voltage:**



Date: 15.JUL.2020 09:00:25

**High Voltage:**



Date: 15.JUL.2020 09:12:09

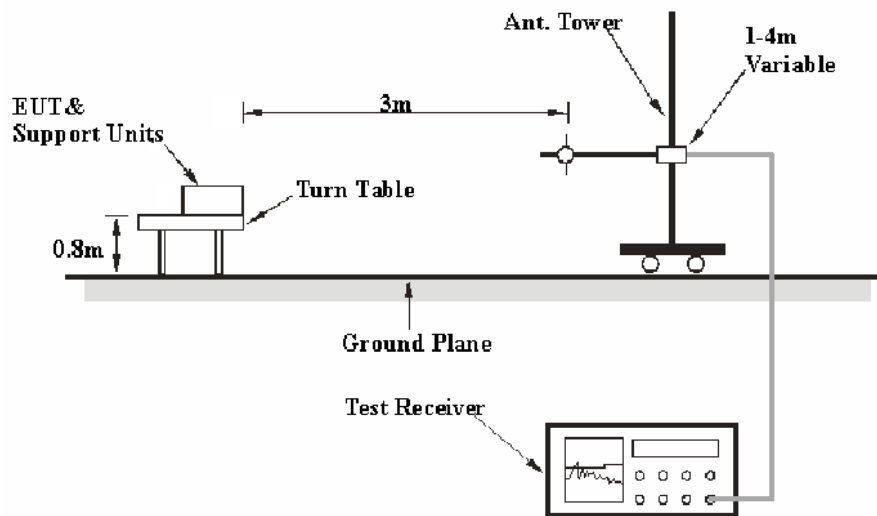
## RADIATED EMISSIONS

### Applicable Standard

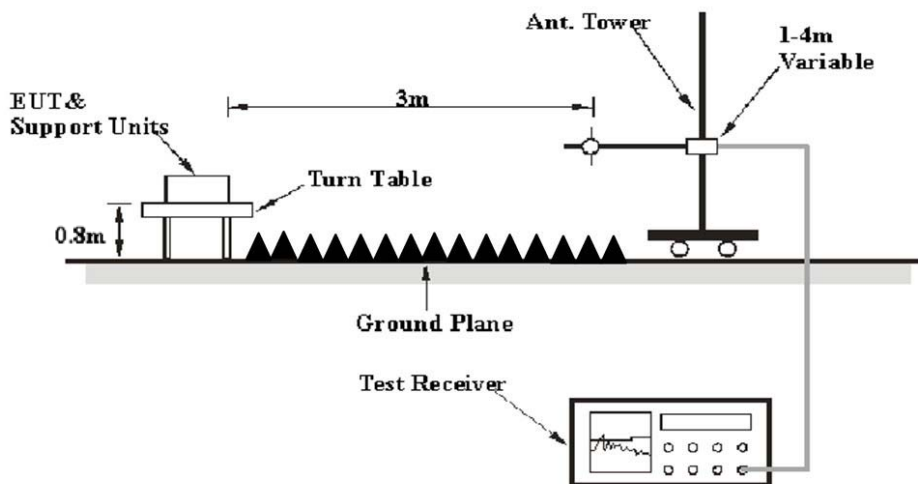
FCC §18.305 and FCC §18.309

### EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP - 5. The specification used was the FCC part 18 limits.

The socket was connected to 120 VAC/60 Hz power source.

## EMI Test Receiver Setup and Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK.
	1MHz	10 Hz	/	Ave.

### Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was in the normal (naïve) operating mode during the final qualification test to represent the worst results.

### Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

### Test Data and Plots

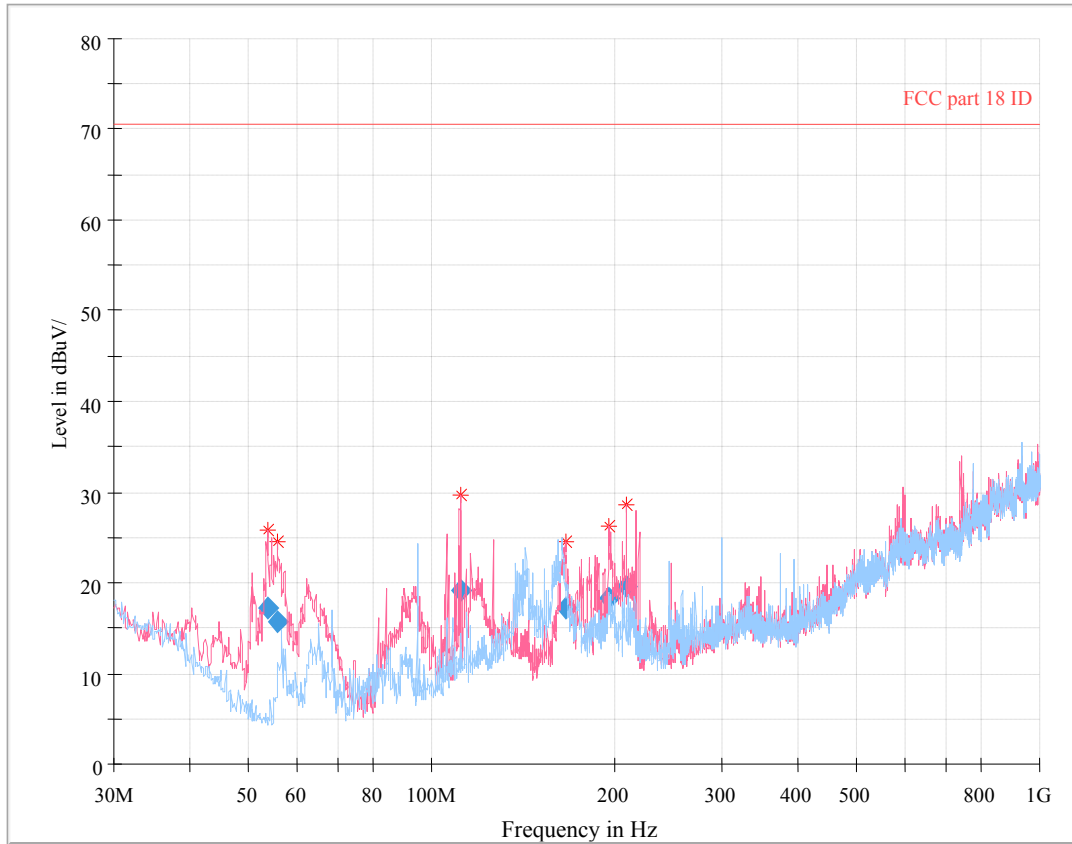
#### Environmental Conditions

<b>Temperature:</b>	28 °C
<b>Relative Humidity:</b>	58 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Harris He on 2020-07-15.*

*EUT operation mode: Maxpower Cooking*

**30 MHz – 1 GHz :**



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
53.833875	17.26	108.0	V	205.0	-19.8	70.41	53.15
55.826250	15.66	110.0	V	218.0	-20.0	70.41	54.75
111.843750	19.05	136.0	V	211.0	-15.3	70.41	51.36
165.707250	17.30	222.0	V	178.0	-14.7	70.41	53.11
195.574250	18.35	317.0	V	328.0	-14.4	70.41	52.06
208.887250	19.59	234.0	V	204.0	-13.9	70.41	50.82

**1 -25 GHz:**

For Band edge and spurious emissions:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 18	
	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBµV/m)	Margin (dB)
2399.93	15.03	Ave.	126	1.5	H	31.87	46.90	70.41	23.51
2399.93	14.65	Ave.	168	2.3	V	31.87	46.52	70.41	23.89
2510.49	15.06	Ave.	94	1.3	H	32.13	47.19	70.41	23.22
2510.49	15.27	Ave.	187	1.2	V	32.13	47.40	70.41	23.01

For Second and Third Harmonics:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 18	
	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBµV/m)	Margin (dB)
<b>700mL water in center</b>									
4942.66	31.25	Ave.	88	2.1	H	6.43	37.68	70.41	32.73
4942.66	34.65	Ave.	92	1.7	V	6.43	41.08	70.41	29.33
7406.89	32.61	Ave.	10	1.9	H	12.31	44.92	70.41	25.49
7406.89	30.52	Ave.	289	1.0	V	12.31	42.83	70.41	27.58
<b>300mL water in center</b>									
4936.87	31.48	Ave.	346	1.0	H	6.43	37.91	70.41	32.50
4936.87	35.12	Ave.	76	1.0	V	6.43	41.55	70.41	28.86
7436.89	33.16	Ave.	150	2.1	H	12.31	45.47	70.41	24.94
7436.89	30.65	Ave.	305	1.6	V	12.31	42.96	70.41	27.45

**Note:**

- 1) Corrected Amplitude = Meter Reading + Correction Factor
- 2) Correction Factor = Antenna Factor + Cable Loss - Amplifier Gain
- 3) Margin = Limit – Corrected Amplitude
- 4) The data below 20dB to the limit was not recorded.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***