



FCC PART 18 TEST REPORT

For

Whirlpool Microwave Products Development Limited.

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FCC ID: PR4LCLPACUX

Report Type: Class II Permissive Change	Product Type: Microwave Oven
Report Number: <u>SZ2210701-26670E-EM-00</u>	
Report Date: <u>2021-07-16</u>	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Microwave Oven
Tested Model	WML35011
Voltage Range	AC 120V/60Hz
Highest operating frequency	2450 MHz
Microwave Output power	1000W
Microwave Input power	1800W
Date of Test	2021-07-08 to 2021-07-14
Sample serial number	SZ2210701-26670E-EM-S1 (Assigned by BAACL, Shenzhen)
Received date	2021-07-01
Sample/EUT Status	Good condition

Objective

This report is 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 differences between the original device and the current one are as follows:

- (1) Changing transformer.
- (2) Changing the magnetron.

Based on above differences listed, all the test items were performed.

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. Each test item follows test standards and with no deviation.

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 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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.

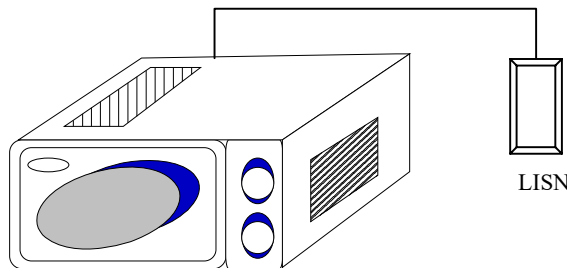
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
BOMEX	Glass beaker	N/A	N/A

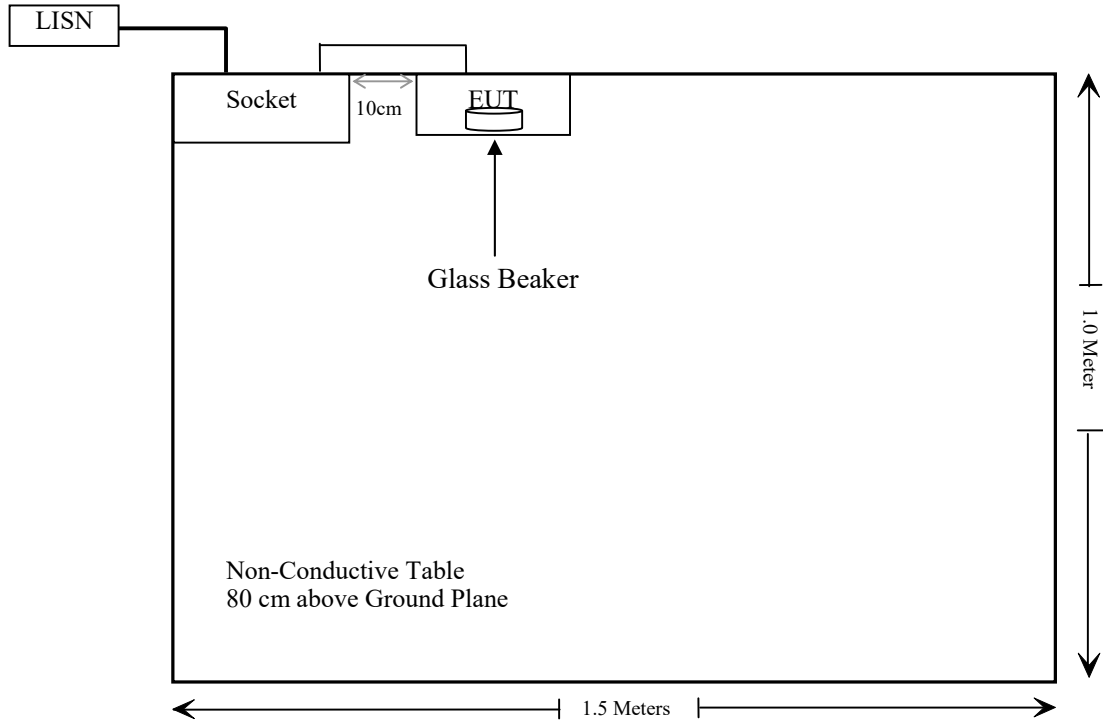
External Cable List and Details

Cable Description	Length (m)	From/Port	To
Unshielded un-detachable AC cable	1.0	Socket	LISN
Unshielded un-detachable AC cable	1.0	Socket	EUT

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Results
§ 18.313, §1.1310, §2.1091	Maximum Permissible Exposure	Compliance
§18.307	AC Line Conducted Emissions	Compliant
FCC/OST MP-5 FCC §18.301	Radiation Hazard Measurement	Compliant
§18.305	Field Strength	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
MAXIMUM PERMISSIBLE EXPOSURE					
ETS	Microwave Survey Meter	1501	123654	2021-3-12	2022-3-12
Conducted Emissions					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2020/11/29	2021/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
Field Strength					
R&S	EMI Test Receiver	ESR3	102455	2021/07/06	2022/07/05
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 4	EC-007	2020/11/29	2021/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10.00	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2021/07/06	2022/07/05
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2020/11/28	2021/11/27
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
the electro-Mechanics Co	Horn Antenna	3116	9510-2270	2019/10/13	2022/10/12
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2020/11/29	2021/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Hazard					
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2021/07/06	2022/07/05
Sunol Sciences	Horn Antenna	DRH-118	A052604	2020/12/20	2023/12/19
GW Instek	Power Meter	GPM 8212	CL110034	2021-04-09	2022-04-09
GW Instek	AC Power Meter	GPM 8212	CL110045	2021-05-03	2022-05-03
MC	Thermometer	Unknown	Unknown	2020-10-31	2021-10-29
ETS	Microwave Survery Meter	1501	Unknown	2021-3-12	2022-3-12
CAMRY	Electronic Weighed	EK3820	Unknown	2020-11-02	2021-11-01
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2020/11/27	2021/11/26
Unknown	RF Cable	W1101-EQ1 OUT	Unknown	2020/11/27	2021/11/26

* **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).

FCC §18.313, §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

Measurement

Environmental Conditions

Temperature:	28 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Joson Xiao on 2021-07-08.

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/cm² observed at any point 5 cm or more from the external surface of the oven.

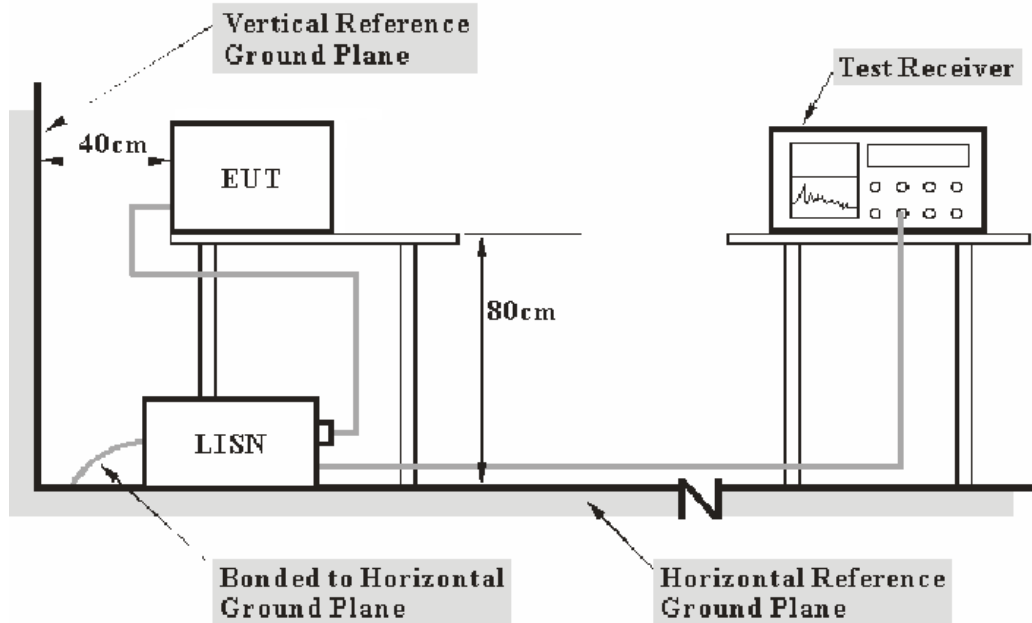
A maximum of 1.0 mW/cm² is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

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

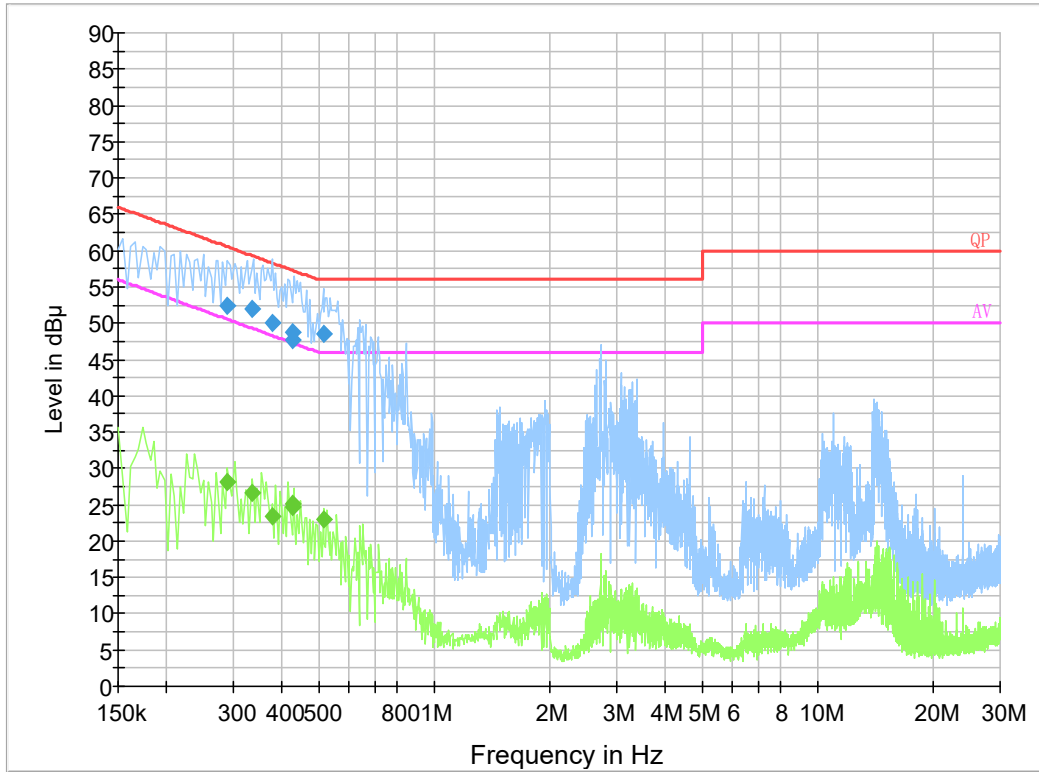
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	66 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-07-12.

Test mode: Microwave

AC 120V/60 Hz, Line



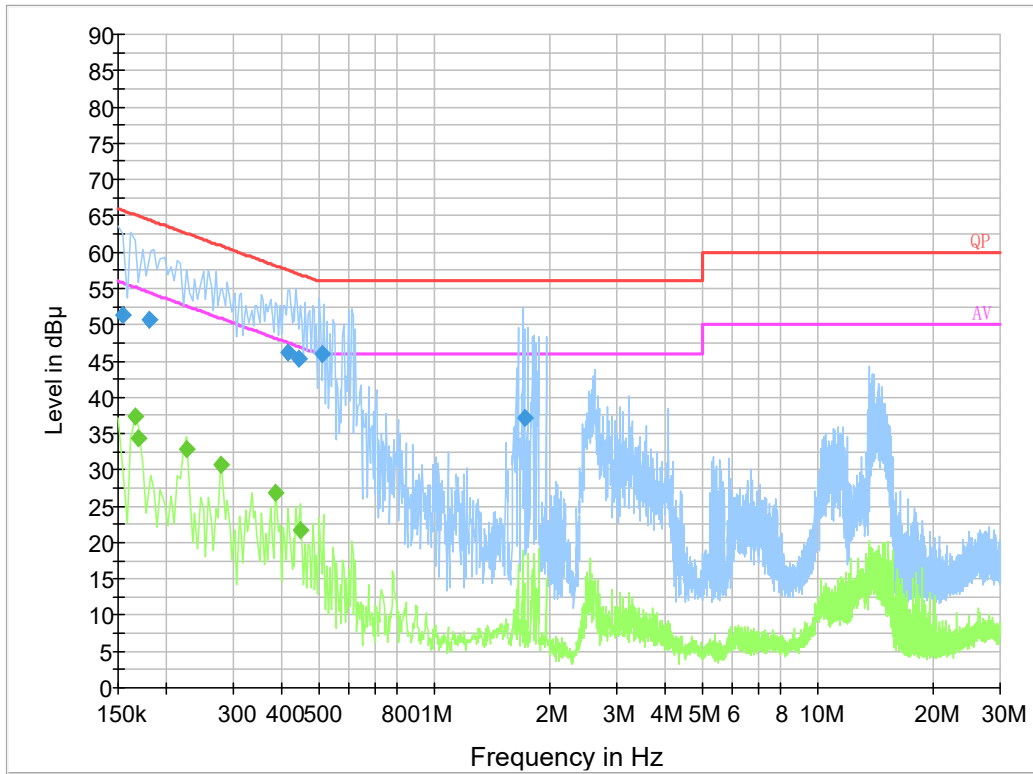
Final Result 1

Frequency (MHz)	QuasiPeak (dB μV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.289500	52.4	9.000	L1	19.7	8.1	60.5
0.336930	52.0	9.000	L1	19.8	7.3	59.3
0.380330	50.1	9.000	L1	19.9	8.2	58.3
0.427490	48.8	9.000	L1	19.9	8.5	57.3
0.427550	47.8	9.000	L1	19.9	9.5	57.3
0.514290	48.5	9.000	L1	19.8	7.5	56.0

Final Result 2

Frequency (MHz)	Average (dB μV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.289500	28.1	9.000	L1	19.7	22.4	50.5
0.336930	26.6	9.000	L1	19.8	22.7	49.3
0.380330	23.4	9.000	L1	19.9	24.9	48.3
0.427490	25.2	9.000	L1	19.9	22.1	47.3
0.427550	24.6	9.000	L1	19.9	22.7	47.3
0.514290	23.0	9.000	L1	19.8	23.0	46.0

AC 120V/60 Hz, Neutral



Final Result 1

Frequency (MHz)	QuasiPeak (dB µV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.154500	51.3	9.000	N	19.8	14.5	65.8
0.181500	50.7	9.000	N	19.8	13.7	64.4
0.415670	46.1	9.000	N	19.8	11.4	57.5
0.444570	45.3	9.000	N	19.8	11.7	57.0
0.509530	46.0	9.000	N	19.8	10.0	56.0
1.728350	37.1	9.000	N	19.8	18.9	56.0

Final Result 2

Frequency (MHz)	Average (dB µV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.166000	37.3	9.000	N	19.8	17.9	55.2
0.170000	34.3	9.000	N	19.9	20.7	55.0
0.226000	32.9	9.000	N	19.8	19.7	52.6
0.278000	30.7	9.000	N	19.7	20.2	50.9
0.386000	26.8	9.000	N	19.8	21.3	48.1
0.450000	21.8	9.000	N	19.8	25.1	46.9

RADIATION HAZARD MEASUREMENT

Applicable Standard

FCC §18.301 & FCC/OST MP-5

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Dio Ding on 2021-07-14.

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.

Input Voltage (V_{AC}/Hz)	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
119.6	14.8	1770.1	1800

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 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 is measured. The oven is then switched off and the final water temperature is measured within 60 s.

m_w (g)	m_c (g)	T_0 (°C)	T_1 (°C)	T_2 (°C)	t (s)
1000	377.0	24.0	9.6	19.5	44

RF Output Power = $(4.187 \times 1100 \times (19.5 - 9.6) + 0.55 \times 377.0 \times (19.5 - 24)) / 44 = 920.87$ Watts

- P is the microwave power output, in watts;
- m_w is the mass of the water, in grams;
- m_c is the mass of the container, in grams;
- T_0 is the ambient temperature, in degrees Celsius;
- T_1 is the initial temperature of the water, in degrees Celsius;
- T_2 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:

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

$$LFS = 25 * \text{SQRT} (920.87/500)$$

$$LFS = 33.93$$

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 $\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@3\text{m}$
33.93	30.61	70.61

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

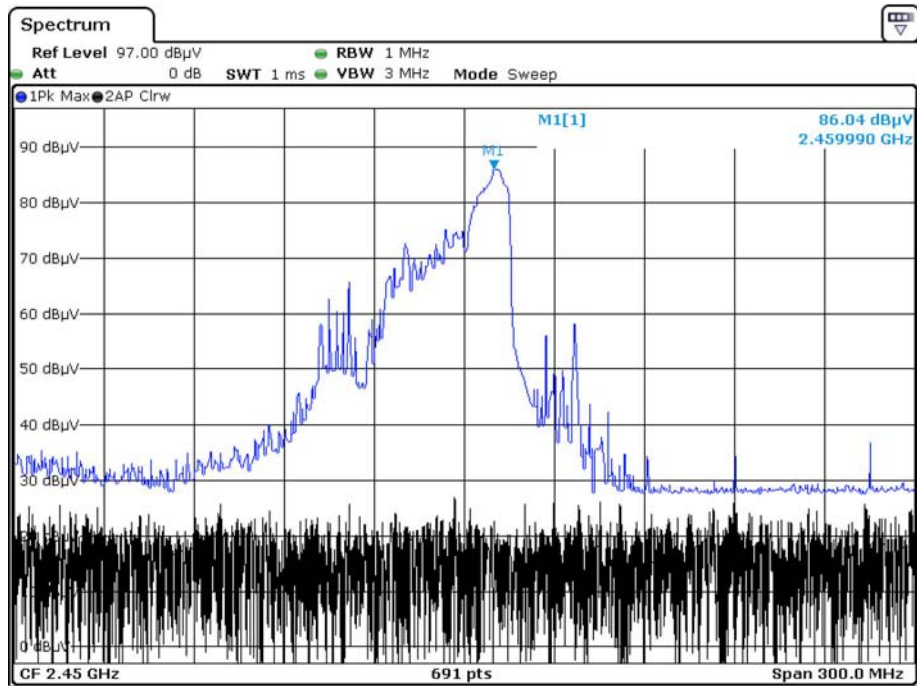
The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to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

The results of this test are as follows:

Frequency at Start time (MHz)	Frequency at End time (MHz)
2459.99	2461.29

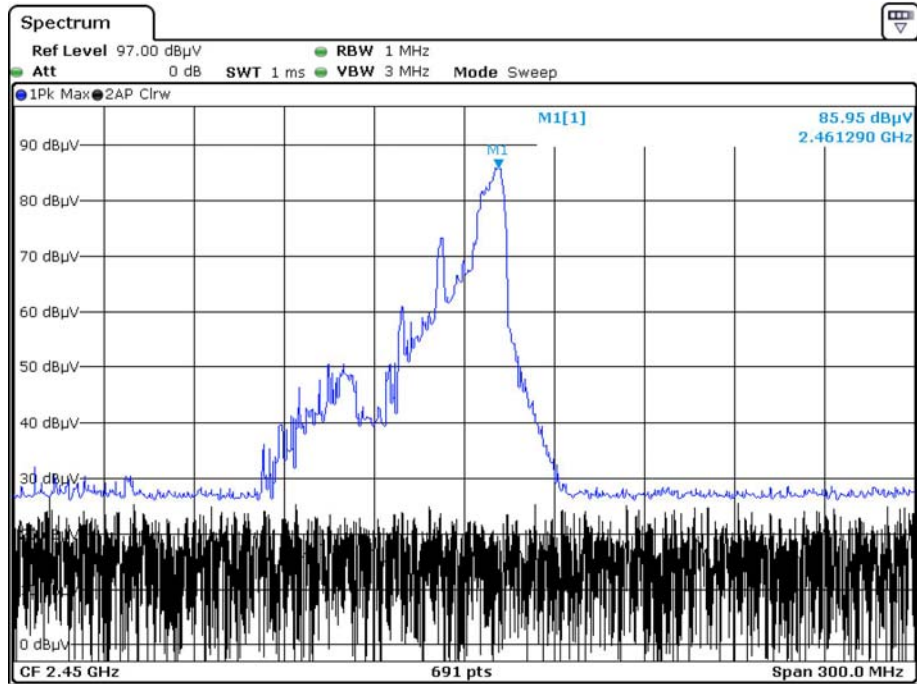
Refer to data pages for details of the variation in operating frequency with time measurement.

Start time:



Date: 14.JUL.2021 14:41:38

End time:



Date: 14.JUL.2021 14:51:17

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.

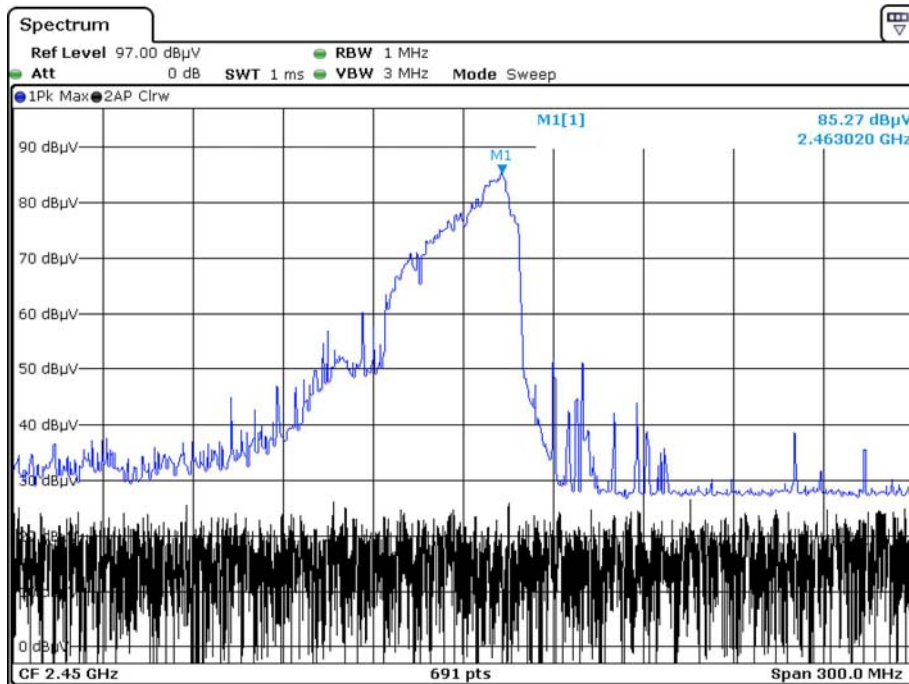
The results of this test are as follows:

Line voltage varied from 96 V_{AC} to 150 V_{AC}.

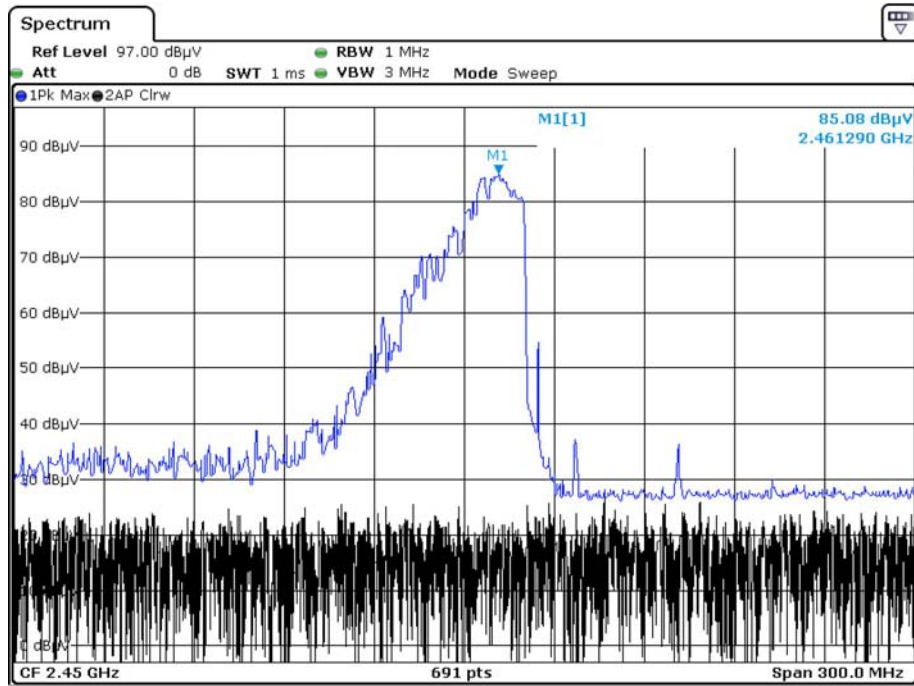
(Low voltage) Frequency (MHz)	(High voltage) Frequency (MHz)
2463.02	2461.29

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

Low Voltage:



High Voltage:



Date: 14.JUL.2021 15:11:05

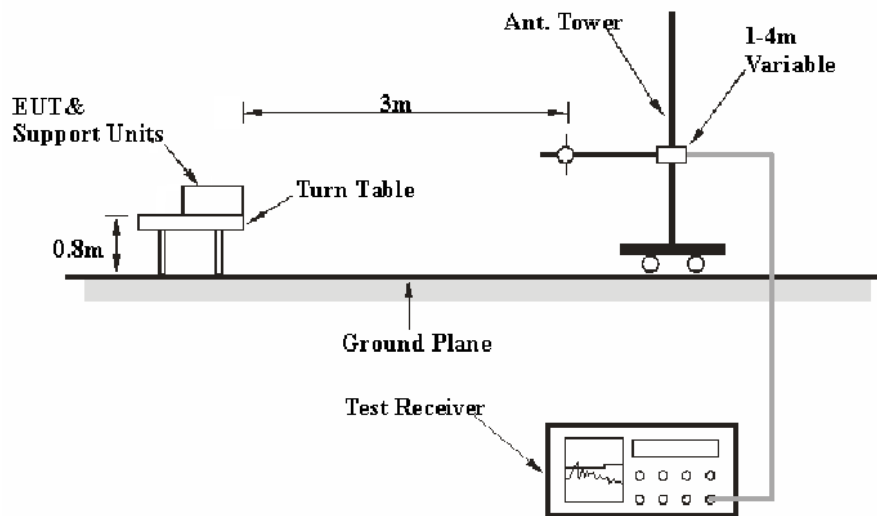
RADIATED EMISSIONS

Applicable Standard

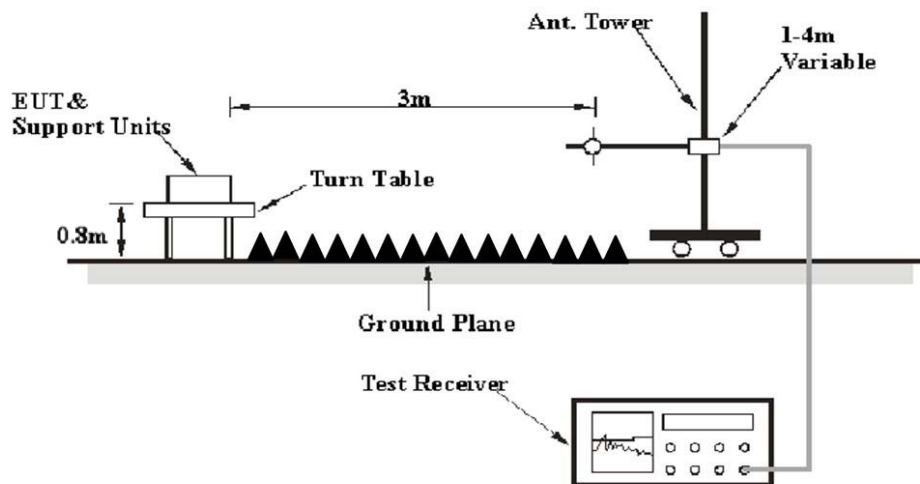
FCC §18.305 and FCC §18.309

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

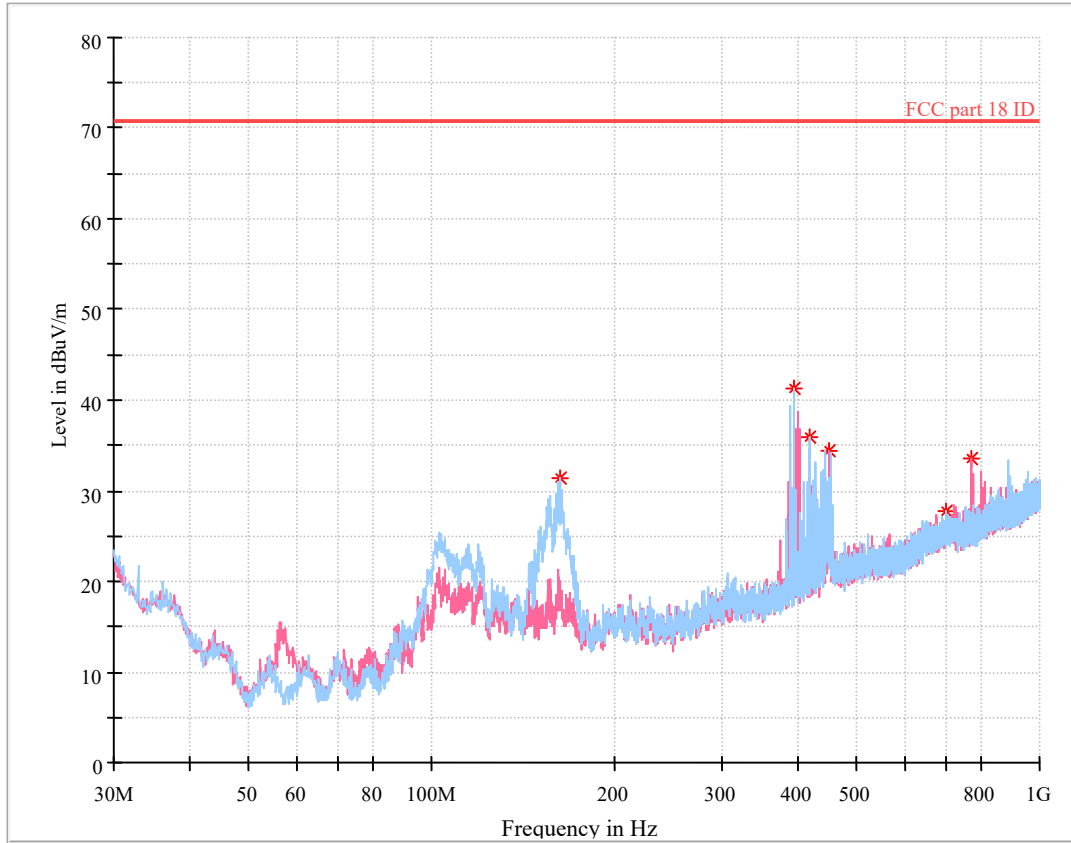
Environmental Conditions

Temperature:	26~27.7 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Cloud Qiu on 2021-07-09 for below 1GHz and by Dio Ding on 2021-07-14 for above 1GHz.

Test mode: Microwave

30 MHz – 1 GHz



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
162.283750	31.50	70.61	39.11	200.0	H	0.0	-11.9
394.356250	41.22	70.61	29.39	100.0	H	2.0	-7.5
419.697500	35.94	70.61	34.67	100.0	H	0.0	-6.7
451.222500	34.45	70.61	36.16	200.0	V	103.0	-5.6
700.755000	27.78	70.61	42.83	200.0	H	14.0	-1.5
773.990000	33.51	70.61	37.10	100.0	V	359.0	-1.1

1 -25 GHz:

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)
2387.34	15.22	Ave.	275	1.3	H	31.87	47.09	70.61	23.52
2387.34	15.06	Ave.	224	2.3	V	31.87	46.93	70.61	23.68
2592.69	14.91	Ave.	348	1.6	H	32.36	47.27	70.61	23.34
2592.69	14.86	Ave.	333	1.8	V	32.36	47.22	70.61	23.39
4334.82	29.92	Ave.	52	2.0	H	5.24	35.16	70.61	35.45
4334.82	29.15	Ave.	49	2.1	V	5.24	34.39	70.61	36.22
700ml water									
4920.59	40.73	Ave.	233	1.5	H	6.43	47.16	70.61	23.45
4920.59	42.94	Ave.	222	1.2	V	6.43	49.37	70.61	21.24
7382.51	35.84	Ave.	133	2.2	H	12.21	48.05	70.61	22.56
7382.51	32.96	Ave.	126	2.0	V	12.21	45.17	70.61	25.44
300ml water									
4901.64	41.99	Ave.	66	1.8	H	6.43	48.42	70.61	22.19
4901.64	43.75	Ave.	78	1.6	V	6.43	50.18	70.61	20.43
7413.68	39.77	Ave.	177	1.9	H	12.31	52.08	70.61	18.53
7413.68	35.04	Ave.	124	1.7	V	12.31	47.35	70.61	23.26

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