



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: PR4LPTKACUY

Report Type: Product Type: Class II Permissive Change Microwave Oven **Report Number:** RSZ191213554-00 **Report Date:** 2019-12-26 Joson Xiao Joson Xiao **Reviewed By:** EMC Engineer Prepared By: Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	3
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	
Measurement Uncertainty Test Facility	4
OPERATING CONDITION/TEST CONFIGURATION	5
JUSTIFICATION	
EUT Exercise Software	
SPECIAL ACCESSORIES	
EQUIPMENT MODIFICATIONS	5
SUPPORT EQUIPMENT LIST AND DETAILS	5
CONFIGURATION OF TEST SETUP	5
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULT	
TEST EQUIPMENT LIST	8
CONDUCTED EMISSIONS	10
APPLICABLE STANDARD	
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	
TEST RESULTS SUMMARY	
TEST DATA	11
RADIATION HAZARD MEASUREMENT	14
APPLICABLE STANDARD	14
Environmental Conditions	
RADIATION HAZARD MEASUREMENT	
INPUT POWER	
LOAD FOR MICROWAVE OVENSRF OUTPUT POWER MEASUREMENT	
OPERATING FREQUENCY MEASUREMENT	
RADIATED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUPEMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP	20 21
TEST PROCEDURE	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST RESULTS SUMMARY	
	22

Report No.: RSZ191213554-00

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Microwave Oven
Tested Model	YKMBT5011
Voltage Range	AC 120V/60Hz
Highest operating frequency	2450 MHz
Microwave output power	900Watts
Input power	1500 Watts
Date of Test	2019-12-17 to 2019-12-19
Sample serial number	RSZ191213554-EM-S1(Assigned by Shenzhen BACL)
Received date	2019-12-13
Sample/EUT Status	Good condition

Report No.: RSZ191213554-00

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 base on the original report RSZ191021557-00 with FCC ID: PR4LPTKACUY which was granted on 2019-12-17, the differences between the original device and the current one are as follows:

- 1. Changing the high voltage transformer to "W-1000(A)";
- 2. Changing the appearance color.

For the changes are 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.

FCC Part 18 Page 3 of 24

Measurement Uncertainty

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

Report No.: RSZ191213554-00

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.

FCC Part 18 Page 4 of 24

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.

Report No.: RSZ191213554-00

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.

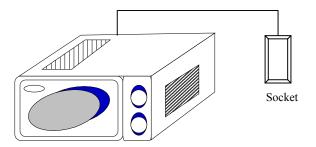
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-606D	N/A
N/A	Glass beaker	N/A	N/A

External Cable List and Details

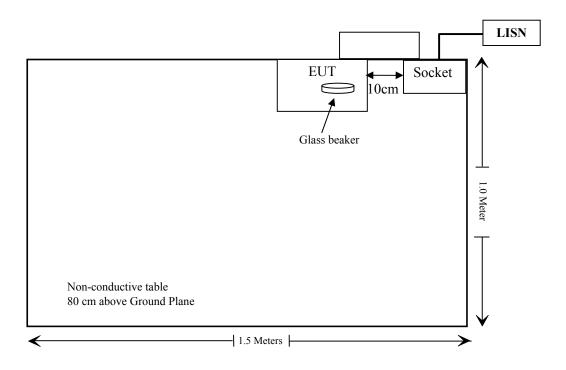
Cable Description	Length (m)	From/Port	То
Un-shielding Un-detachable AC Cable	1.0	Socket	EUT
Un-shielding Un-detachable AC Cable	1.0	LISN	Socket

Configuration of Test Setup



FCC Part 18 Page 5 of 24

Block Diagram of Test Setup



FCC Part 18 Page 6 of 24

SUMMARY OF TEST RESULT

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

Report No.: RSZ191213554-00

FCC Part 18 Page 7 of 24

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
CONDUCTED EMISSIONS						
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2019/7/9	2020/7/8	
Rohde & Schwarz	LISN	ENV216	101613	2019/1/25	2020/1/24	
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2019/11/29	2020/11/28	
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR	
N/A	Conducted emission CABLE	78652	UF A210B-1- 0720-504504	2019/11/12	2020/11/12	
	RADIATIO	N HAZARD MEAS	SUREMENT			
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019/7/22	2020/07/21	
GW Instek	Power Meter	GPM 8212	CL110045	2019/10/14	2020/10/13	
GW Instek	Power Meter	GPM 8212	CL110034	2019/10/14	2020/10/13	
N/A	Thermometer	0~200°C	N/A	2015/4/10	2025/4/7	
ETS	Horn Antenna	3115	27188	NCR	NCR	
ETS	Microwave Survery Meter	1501	N/A	NCR	NCR	
N/A	Electronic Weighed	EK3820	N/A	NCR	NCR	
Ducommun technologies	Signal Cable	UFA210A-1- 4724-30050U	MFR64369 223410-001	2019/11/12	2020/11/12	
Ducommun technologies	Signal Cable	104PEA	218124002	2019/11/12	2020/11/12	

Report No.: RSZ191213554-00

FCC Part 18 Page 8 of 24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
RADIATED EMISSIONS						
R&S	EMI Test Receiver	ESR3	102455	2019/7/9	2020/7/8	
Sonoma instrument	Pre-amplifier	310 N	186238	2019/4/20	2020/4/20	
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017/12/22	2020/12/21	
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019/7/22	2020/07/21	
COM-POWER	Pre-amplifier	PA-122	181919	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	
Ducommun technologies	Powerling Surge Coupling Decoupling Network	2PS-1401-2760- 2ps	3	2019/11/12	2020/11/12	
Ducommun technologies	Signal Cable	UFA210A-1- 4724-30050U	MFR64369 223410-001	2019/11/12	2020/11/12	
Ducommun technologies	Signal Cable	104PEA	218124002	2019/11/12	2020/11/12	
COM-POWER	Amplifier	QLW-18405536- J0	15964001002	2019/11/29	2020/11/28	
R&S	Auto test Software	EMC32	V9.10	NCR	NCR	

Report No.: RSZ191213554-00

FCC Part 18 Page 9 of 24

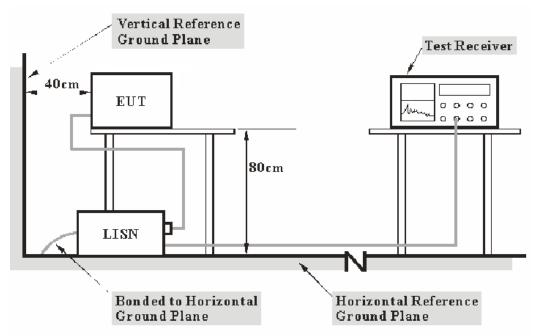
^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

CONDUCTED EMISSIONS

Applicable Standard

FCC §18.307

EUT Setup



Report No.: RSZ191213554-00

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

FCC Part 18 Page 10 of 24

Test Procedure

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

Report No.: RSZ191213554-00

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

Test Results Summary

According to the EUT complied with the FCC PART 18,

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

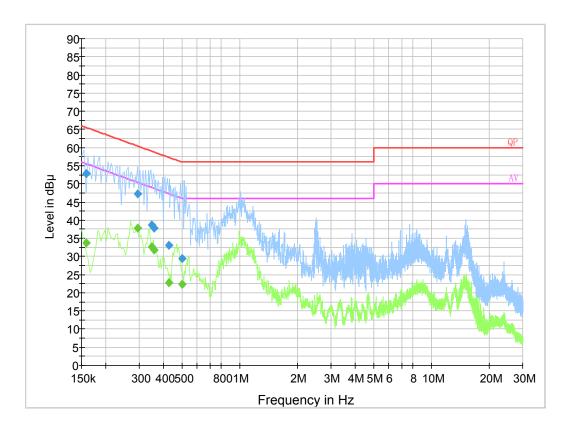
The testing was performed by Haiguo Li on 2019-12-17.

FCC Part 18 Page 11 of 24

EUT operation mode: 1000mL Water in center of microwave oven with Maximum Power on

Report No.: RSZ191213554-00

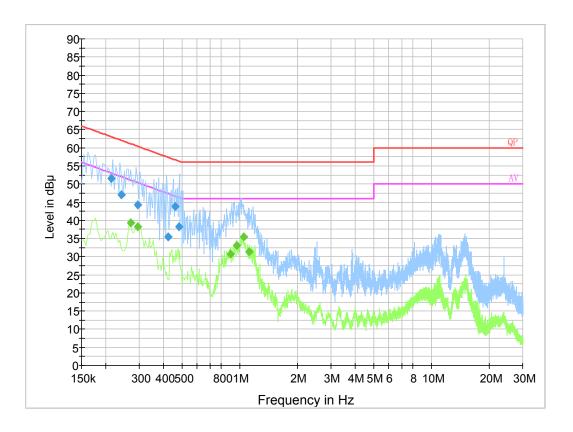
AC 120V/60Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.158500	52.9	19.8	65.5	12.6	QP
0.293500	47.3	19.7	60.4	13.1	QP
0.348810	38.8	19.9	59.0	20.2	QP
0.356690	37.9	19.9	58.8	20.9	QP
0.428330	33.0	19.9	57.3	24.3	QP
0.502410	29.3	19.8	56.0	26.7	QP
0.158500	33.7	19.8	55.5	21.8	Ave.
0.293500	37.8	19.7	50.4	12.6	Ave.
0.348810	32.6	19.9	49.0	16.4	Ave.
0.356690	31.7	19.9	48.8	17.1	Ave.
0.428330	22.9	19.9	47.3	24.4	Ave.
0.502410	22.3	19.8	46.0	23.7	Ave.

FCC Part 18 Page 12 of 24

AC 120V/60Hz, Neutral



Report No.: RSZ191213554-00

Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.213500	51.5	19.8	63.1	11.6	QP
0.242501	46.9	19.8	62.0	15.1	QP
0.293500	44.3	19.7	60.4	16.1	QP
0.424270	35.4	19.8	57.4	22.0	QP
0.459190	43.9	19.8	56.7	12.8	QP
0.482710	38.2	19.8	56.3	18.1	QP
0.270000	39.3	19.7	51.1	11.8	Ave.
0.294000	38.3	19.7	50.4	12.1	Ave.
0.894000	30.7	19.7	46.0	15.3	Ave.
0.970000	33.0	19.8	46.0	13.0	Ave.
1.050000	35.5	19.8	46.0	10.5	Ave.
1.126000	31.4	19.8	46.0	14.6	Ave.

Note:

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

FCC Part 18 Page 13 of 24

RADIATION HAZARD MEASUREMENT

Applicable Standard

FCC §18.301 & FCC/OST MP-5

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Alan He on 2019-12-19.

Radiation Hazard Measurement

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

Report No.: RSZ191213554-00

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 0.1mW/cm^2 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.

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)	*			
119.6	12.1	1447.2	1500		

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

FCC Part 18 Page 14 of 24

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.

Report No.: RSZ191213554-00

- 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 $10 \,^{\circ}\text{C} \pm 1 \,^{\circ}\text{C}$ is used for the test. The water temperature is measured immediately before it is poured into the container.

A quantity of $1000 \text{ g} \pm 5 \text{ g}$ 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 $20 \,^{\circ}\text{C} \pm 2 \,^{\circ}\text{C}$ is measured. The oven is then switched off and the final water temperature is measured within $60 \, \text{s}$.

m _w (g)	m _c (g)	T ₀ (°C)	T ₁ (°C)	T ₂ (°C)	t (s)
1000	377.0	23.8	9.5	19.8	45

RF Output Power = $(4.187 \times 1000 \times (19.8 - 9.5) + 0.55 \times 377.0 \times (19.8 - 23.8)) / 45 = 939.93$ 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;
- T₂ is the final temperature of the water, in degrees Celsius;
- is the heating time, in seconds, excluding the magnetron filament heating-up time.

 \square 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 $25\mu V/meter$ at a 300-meter measurement distance.

FCC Part 18 Page 15 of 24

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:

Report No.: RSZ191213554-00

LFS = 25*SQRT (Power Output/500)

LFS = 25*SQRT (939.93/500)

LFS = 34.28

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

LFS μV/m@300m	dBμV/m@300m	dBμV/m@3m
34.28	30.70	70.70

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

FCC Part 18 Page 16 of 24

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.

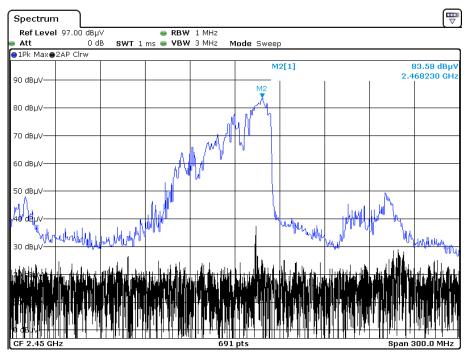
Report No.: RSZ191213554-00

The results of this test are as follows:

Frequency at Start time	Frequency at End time				
(MHz)	(MHz)				
246823	2466.06				

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

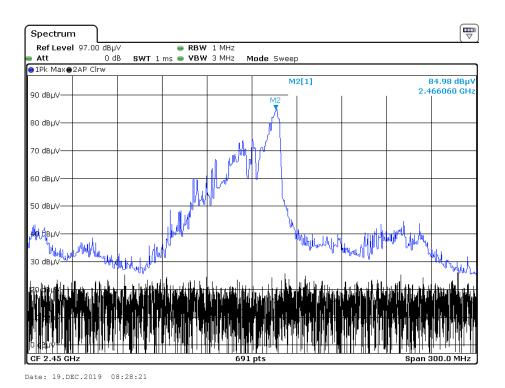
Start time:



Date: 19.DEC.2019 08:17:49

FCC Part 18 Page 17 of 24

End time:



Report No.: RSZ191213554-00

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:

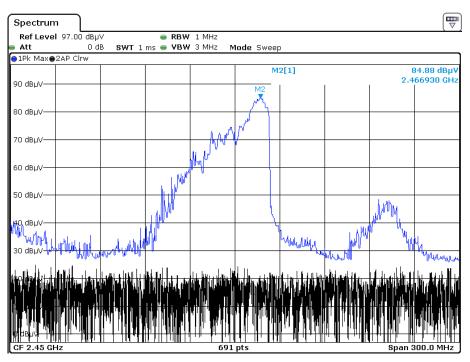
Line voltage varied from 96 V_{AC} to 150 V_{AC} .

(Low voltage) Frequency	(High voltage) Frequency
(MHz)	(MHz)
2466.93	2468.23

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

FCC Part 18 Page 18 of 24

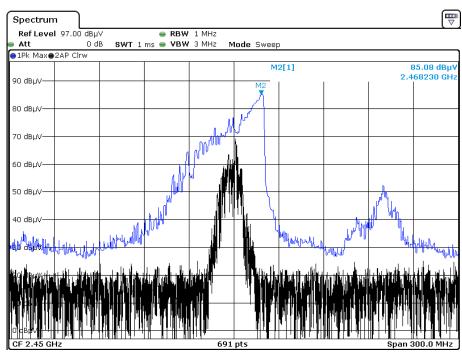
Low Voltage:



Report No.: RSZ191213554-00

Date: 19.DEC.2019 08:50:09

High Voltage:



Date: 19.DEC.2019 08:39:08

FCC Part 18 Page 19 of 24

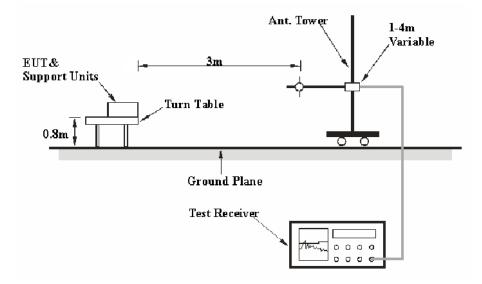
RADIATED EMISSIONS

Applicable Standard

FCC §18.305 and FCC §18.309

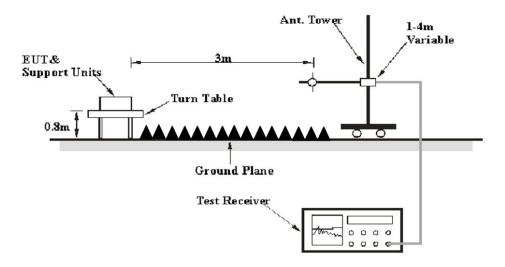
EUT Setup

Below 1GHz:



Report No.: RSZ191213554-00

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.

FCC Part 18 Page 20 of 24

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 CHz	1MHz	3 MHz	/	PK.
Above 1 GHz	1MHz	10 Hz	/	Ave.

Report No.: RSZ191213554-00

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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit – Corrected Amplitude

FCC Part 18 Page 21 of 24

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 18,

Report No.: RSZ191213554-00

Test Data and Plots

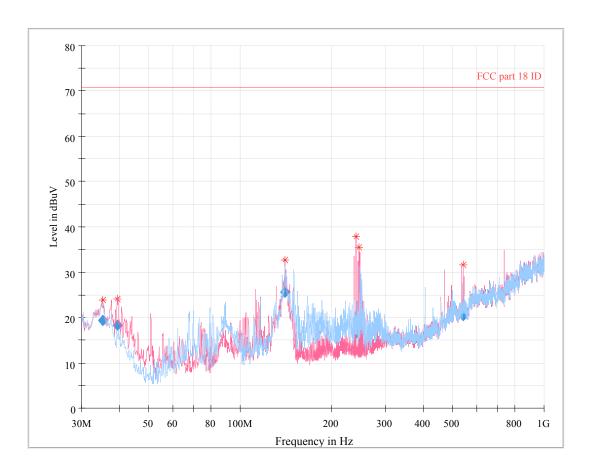
Environmental Conditions

Temperature:	23 ℃
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Steve Lan on 2019-12-19 and by Alan He on 2019-12-19.

FCC Part 18 Page 22 of 24

30 MHz – 1 GHz:(1000mL Water in center of microwave oven with Maximum Power on)



Report No.: RSZ191213554-00

Frequency (MHz)	Corrected Amplitude (dBµV/m)	PK/QP	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
35.419125	19.35	QP	233.0	Н	322.0	-10.8	70.70	51.35
39.530625	18.18	QP	133.0	V	223.0	-13.5	70.70	52.52
140.111125	25.54	QP	113.0	V	9.0	-14.2	70.70	45.16
240.411750	16.46	QP	267.0	V	214.0	-14.1	70.70	54.24
246.423875	16.53	QP	225.0	V	20.0	-14.1	70.70	54.17
540.407875	20.45	QP	356.0	V	42.0	-4.3	70.70	50.25

FCC Part 18 Page 23 of 24

1 -25 GHz:

For Band edge and spurious emissions:

F	Measurement		Tbl.	Rx Ar	itenna	Corrected	Corrected	FCC P	art 18
(MHz)	Frequency (MHz) Reading (dBμV) PK/QP/Ave.	Turntable Degree	Height	Polar (H / V)	Factor (dB/m)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)	
2342.40	13.9	Ave.	91	2.4	V	31.64	45.54	70.70	25.16
2557.38	14.33	Ave.	187	2.4	V	32.26	46.59	70.70	24.11
2209.65	34.25	Ave.	286	1.2	V	-0.24	34.01	70.70	36.69

Report No.: RSZ191213554-00

For Second and Third Harmonics:

E	Measurement			Rx Ar		Corrected	Corrected	FCC Part 18	
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height	Polar (H / V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	700mL water in center								
4900.00	39.47	Ave.	198	1.6	V	6.43	45.90	70.70	24.80
7350.00	31.06	Ave.	301	1.4	V	18.16	49.22	70.70	21.48
			300m	ıL wateı	r in cent	ter			
4925.30	38.89	Ave.	348	1.3	V	6.43	45.32	70.70	25.38
7350.00	30.58	Ave.	200	1.5	V	16.78	47.36	70.70	23.34

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 *****

FCC Part 18 Page 24 of 24