

# 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: PR4RED199Y1

Report Type: Product Type:

Class II Permissive Change Microwave Oven

**Report Number:** RSZ160927553-00

**Report Date:** 2017-03-01

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Reviewed By: Engineer

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**Note**: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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#### **GENERAL INFORMATION**

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

The Whirlpool Microwave Products Development Limited.'s product, model number: YWMH31017 (FCC ID: PR4RED199Y1) or the "EUT" in this report is a Microwave Oven, which was measured approximately: 76.0 cm (L) \* 40.5 cm (W) \* 44.0 cm (H), the rated with input voltage: AC 120V/60Hz. The operating frequency is 2450MHz.

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\*All measurement and test data in this report was gathered from production sample serial number: 160609037 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2016-09-27.

#### **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 RSZ141126550 with FCC ID: PR4RED199Y1 which was granted on 2015-01-23, the differences between the original device and the current one are as follows:

1. Changing the magnetron and the cosmetic of the control panel.

For the changes 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.

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## **Measurement Uncertainty:**

	Item	Uncertainty
AC Power Line	s Conducted Emissions	±3.26 dB
RF conducte	d test with spectrum	±0.9dB
RF Output Po	wer with Power meter	±0.5dB
D. F. t. L indian	30MHz~1GHz	±5.91dB
Radiated emission	Above 1GHz	±4.92dB
Occupied Bandwidth		±0.5kHz
Temperature		±1.0℃
H	Humidity	±6%

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## **Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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# 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.

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#### **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.

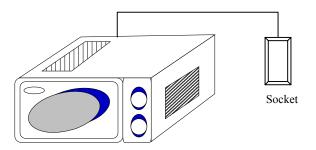
# **Support Equipment List and Details**

Manufacturer	Description Model		Serial Number	
N/A	N/A Socket		140217	

#### **External Cable List and Details**

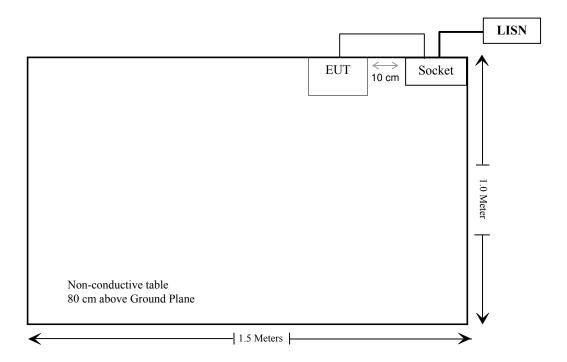
Cable Description	Length (m)	From/Port	To
Un-shielding Un-detachable AC Cable	1.5	LISN	Socket
Un-shielding Un-detachable AC Cable	0.8	EUT	Socket

## **Configuration of Test Setup**



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# **Block Diagram of Test Setup**



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# **TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	CON	NDUCTED EMISSI	ONS		
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2016-11-25	2017-11-25
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2016-10-10	2017-10-10
Rohde & Schwarz	Pulse limiter	ESH3-Z2	879940/0058	2016-06-19	2017-06-18
MICRO-COAX	Coaxial line	UFB-293B-1- 0480-50X50	97F0173	2016-09-08	2017-09-08
Rohde & Schwarz	CE Test software	EMC 32	V 09.10.0	NCR	NCR
	RADIATIO	N HAZARD MEAS	SUREMENT		
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2016-04-14	2017-04-14
Valhalla Scientific	Power Meter	2101	3-7098	2016-03-16	2017-03-16
MC	Thermometer	N/A	N/A	2016-11-01	2017-11-01
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
ETS	Microwave Survery	1501	N/A	NCR	NCR
CAMRY	Electronic Weigher	EK3820	N/A	2016-11-03	2017-11-02
	RA	DIATED EMISSIC	ONS		
Sonoma Instrunent	Amplifier	330	171377	2016-12-12	2017-12-12
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2016-11-25	2017-11-25
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2016-01-09	2019-01-08
Narda	Pre-amplifier	AFS42-00101800	2001270	2016-09-08	2017-09-08
EMCO	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2016-11-25	2017-11-25
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
R&S	Auto test Software	EMC32	V 09.10.0	NCR	NCR
haojintech	Coaxial Cable	Cable-1	001	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-2	002	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-3	003	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-4	004	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-5	005	2016-12-12	2017-12-12

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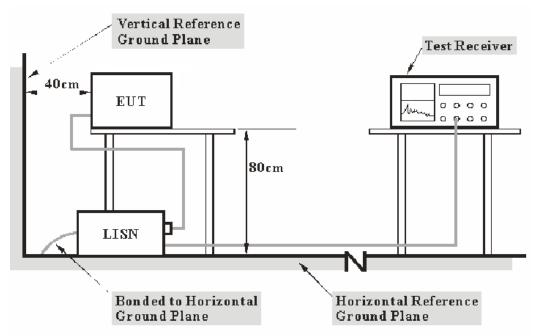
<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

# **CONDUCTED EMISSIONS**

## **Applicable Standard**

FCC §18.307

### **EUT Setup**



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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

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#### **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 Results Summary**

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

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

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In BACL.,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	23.5 ℃
Relative Humidity:	46 %
ATM Pressure:	101.0 kPa

The testing was performed by Layne Li on 2017-01-24.

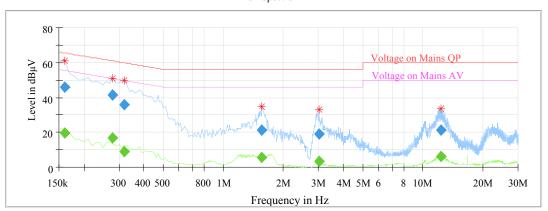
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Test Mode: Boiling Water with MAX Power & Fan Maximum

# AC 120V/60 Hz, Line:



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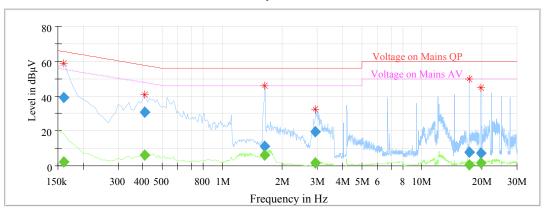
Frequency (MHz)	QuasiPeak (dBµV)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.160000		19.62	9.000	L1	10.1	35.84	55.46	Compliance
0.160000	45.96		9.000	L1	10.1	19.50	65.46	Compliance
0.280000		16.57	9.000	L1	10.0	34.25	50.82	Compliance
0.280000	41.31		9.000	L1	10.0	19.51	60.82	Compliance
0.320000		9.07	9.000	L1	10.0	40.64	49.71	Compliance
0.320000	36.07		9.000	L1	10.0	23.64	59.71	Compliance
1.560000		5.33	9.000	L1	9.8	40.67	46.00	Compliance
1.560000	21.06		9.000	L1	9.8	34.94	56.00	Compliance
3.020000		3.10	9.000	L1	9.9	42.90	46.00	Compliance
3.020000	19.25		9.000	L1	9.9	36.75	56.00	Compliance
12.390000		6.16	9.000	L1	10.1	43.84	50.00	Compliance
12.390000	21.03		9.000	L1	10.1	38.97	60.00	Compliance

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



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Frequency (MHz)	QuasiPeak (dBµV)	Average (dB \mu V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.160000	39.14		9.000	N	10.1	26.32	65.46	Compliance
0.160000		2.31	9.000	N	10.1	53.15	55.46	Compliance
0.410000	30.95		9.000	N	10.1	26.70	57.65	Compliance
0.410000		6.39	9.000	N	10.1	41.26	47.65	Compliance
1.630000	11.13		9.000	N	9.9	44.87	56.00	Compliance
1.630000		6.33	9.000	N	9.9	39.67	46.00	Compliance
2.930000	19.40		9.000	N	9.9	36.60	56.00	Compliance
2.930000		1.40	9.000	N	9.9	44.60	46.00	Compliance
17.230000	7.72		9.000	N	10.1	52.28	60.00	Compliance
17.230000		0.71	9.000	N	10.1	49.29	50.00	Compliance
19.820000		1.64	9.000	N	10.2	48.36	50.00	Compliance
19.820000	7.18		9.000	N	10.2	52.82	60.00	Compliance

#### **Note:**

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

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## RADIATION HAZARD MEASUREMENT

### **Applicable Standard**

FCC §18.301

#### **Environmental Conditions**

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

The testing was performed by Phil Zhu on 2017-01-12.

#### **Radiation Hazard Measurement**

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

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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  $0.1 \text{mW/cm}^2$  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 <sub>AC</sub> /Hz)	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
120	12.61	1513	1500

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

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#### **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.

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- 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.

#### The RF output power is rated at 1000 watts

Load used for power output measurement = 1000 milliliters of water Load used for frequency measurement = 1000 milliliters of water Load used for harmonic measurement = 700 & 300 milliliters of water Load used for other measurement = 700 milliliters of water

#### **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 25 °C  $\pm$  1 °C C is used for the test. The water temperature is measured immediately before it is poured into the container.

A quantity of 1 000 g  $\pm$  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 35 °C  $\pm$  2 °C is measured. The oven is then switched off and the final water temperature is measured within 60 s.

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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	25.0	10.0	20.0	45

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RF Output Power =  $4.187x \underline{1000} x(\underline{20} - \underline{10}) + 0.55x\underline{377}x(\underline{20} - \underline{25}) / \underline{45} = \underline{907.41}$  Watts

is the microwave power output, in watts;

is the mass of the water, in grams;  $m_{\rm w}$ 

is the mass of the container, in grams;  $m_c$ 

To

is the ambient temperature, in degrees Celsius; is the initial temperature of the water, in degrees Celsius;  $T_1$ 

is the final temperature of the water, in degrees Celsius;  $T_2$ 

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\*SQRT (Power Output/500)

LFS = 25\* (907.41/500)

LFS = 33.68

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

LFS μV/m@300m	dBμV/m@300m	dBμV/m@3m
33.68	30.55	70.55

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

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## **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.

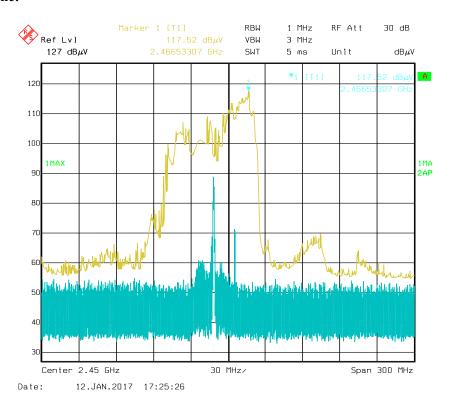
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The results of this test are as follows:

Frequency at Start time	Frequency at End time				
(MHz)	(MHz)				
2466.53	2467.74				

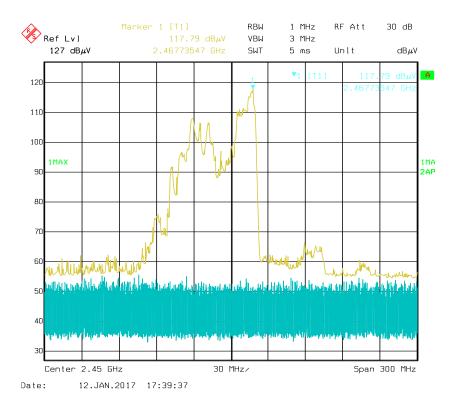
Refer to data pages for details of the variation in operating frequency with time measurement.

#### **Start time:**



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#### **End time:**



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### 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:

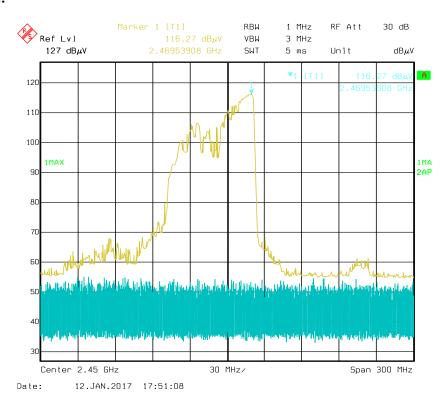
Line voltage varied from 96  $V_{AC}$  to 150  $V_{AC}$ .

(Low voltage) Frequency	(High voltage) Frequency				
(MHz)	(MHz)				
2469.54	2468.33				

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

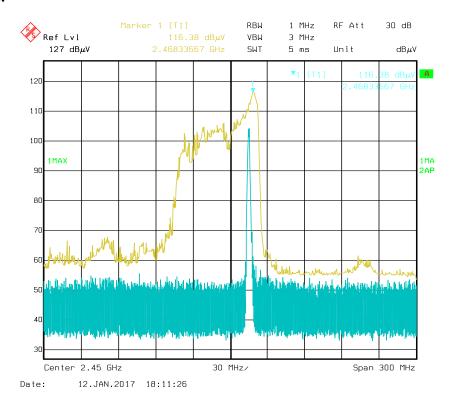
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# **High Voltage:**



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# Low Voltage:



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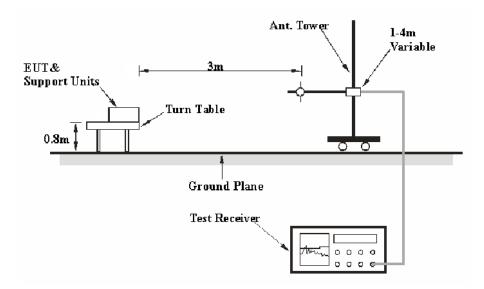
# **RADIATED EMISSIONS**

## **Applicable Standard**

FCC §18.305 and FCC §18.309

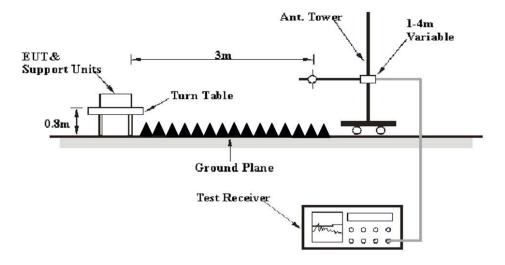
## **EUT Setup**

#### **Below 1GHz:**



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#### 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.

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## **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	Detector	
30MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP	
Above 1 CHz	1MHz	3 MHz	/	PK	
Above 1 GHz	1MHz	10 Hz	/	Ave.	

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#### **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.

The data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz, the average detection mode for above 1 GHz.

# **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

#### **Test Results Summary**

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

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL.,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

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#### **Test Data and Plots**

#### **Environmental Conditions**

Temperature:	23.5 ℃		
Relative Humidity:	46 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Layne Li on 2017-01-24.

Test Mode: Boiling Water with MAX Power & Fan Maximum

### **30 MHz – 1 GHz:**

Frequency (MHz)	Corrected Amplitude (dBµV/m)	Detector (PK/QP)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
64.140375	34.83	QP	234.0	V	216.0	-16.81	70.55	35.72
120.695475	14.96	QP	104.0	V	55.0	-14.70	70.55	55.59
122.310350	23.49	QP	185.0	V	91.0	-14.70	70.55	47.06
696.286175	27.09	QP	294.0	V	147.0	-3.74	70.55	43.46
833.902175	31.92	QP	200.0	Н	244.0	-1.59	70.55	38.63
848.474950	33.48	QP	368.0	Н	192.0	-1.59	70.55	37.07

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#### Above 1 GHz:

T.	Receiver		T 4 11	Rx Antenna		Corrected	Corrected	FCC Part 18	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	0	Height	Polar (H / V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
4260.93	40.34	Ave.	216	2.0	Н	0.43	40.77	70.55	29.78
4247.74	42.04	Ave.	284	1.8	V	0.19	42.23	70.55	28.32
8638.93	36.95	Ave.	80	1.7	Н	10.13	47.08	70.55	23.47
8627.61	37.28	Ave.	73	1.4	V	10.13	47.41	70.55	23.14
9148.25	34.23	Ave.	75	2.4	Н	9.98	44.21	70.55	26.34
9155.96	33.24	Ave.	244	1.2	V	10.86	44.10	70.55	26.45

#### 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 \*\*\*\*\*

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