

FCC PART 18  
MEASUREMENT AND TEST REPORT

For

**Panasonic Appliance Company of America  
Kitchen Appliances Certification Liaison**

1701 Golf Road Suite 3-106, Rolling Meadows, IL 60008

**FCC ID: ACLAPCB01**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Microwave oven
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<b>Report Number:</b> RSHA181016003-00	
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## GENERAL INFORMATION

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

Applicant	Panasonic Appliance Company of America Kitchen Appliances Certification Liaison
Manufacturer	Panasonic Appliances Microwave Oven (Shanghai) Co., Ltd.
Manufacturer Address	888, 898 Long Dong Road, Pu Dong, Shanghai, China
Test Model	NN-GN68KS
Product	Microwave oven
Rate Voltage	AC120V
Highest Operating Frequency	2450MHz
Dimension	401mm(L)*525mm(W)*310mm(H)

*Note: The difference between test model and series model was explained in the attached declaration letter.*

*\* All measurement and test data in this report was gathered from production sample serial number: 20181016003. (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2018-10-16.*

### Objective

This report is prepared on behalf of Panasonic Appliance Company of America Kitchen Appliances Certification Liaison 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 the compliance of EUT with FCC Part 18 limits.

### 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.

### 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.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

*Test Mode1: Max output Power of Microwave*

*Test Mode2: Max output Power of Grill*

### EUT Exercise Software

No software was used to test.

### Special Accessories

No special accessory was used.

### Equipment Modifications

No modification was made to the EUT tested.

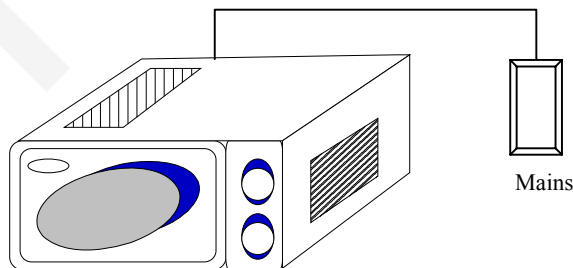
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

### External I/O Cable

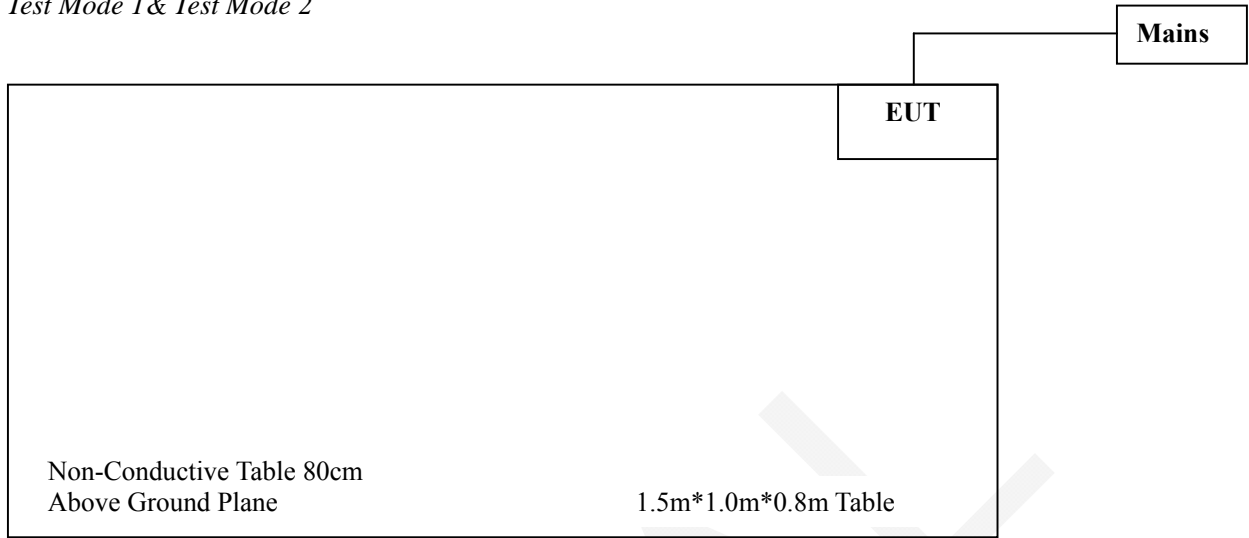
Cable Description	Length (m)	From/Port	To
Un-shielding Un-detachable AC Cable	1.2	EUT	Mains

### Configuration of Test Setup



### Block Diagram of Radiated Test Setup

*Test Mode 1 & Test Mode 2*



## CONDUCTED EMISSIONS

### Applicable Standard

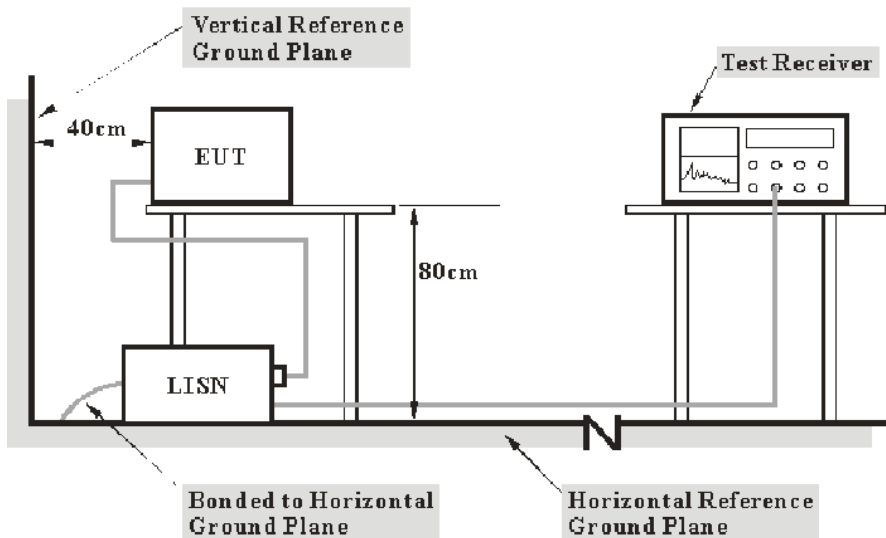
FCC §18.307

### Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Item		Measurement Uncertainty	$U_{cispr}$
AMN	150kHz~30MHz	3.19 dB	3.4~3.8 dB
AAN	150kHz~30MHz	4.69 dB	5.0 dB

### 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 EUT 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

During the conducted emission test, the EUT was connected to the outlet of the LISN.

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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2017-11-12	2018-11-11
ROHDE&SCHWARZ	LISN	ENV216	3560655016	2017-11-25	2018-11-24
BACL	BACL-EMC	V1.0	CE001	--	--
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-09-08	2019-09-07

\* **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).

### Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Amplitude} = \text{Meter Reading} + \text{VDF} + \text{Cable Loss}$$

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 7 dB below the limit. The equation for margin calculation is as follows:

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

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC PART 18, the worst margin reading as below:

**9.78 dB at 0.155 MHz** in the **Line** conducted mode for microwave mode  
**13.20 dB at 0.425 MHz** in the **Neutral** conducted mode for microwave mode

## Test Data

### Environmental Conditions

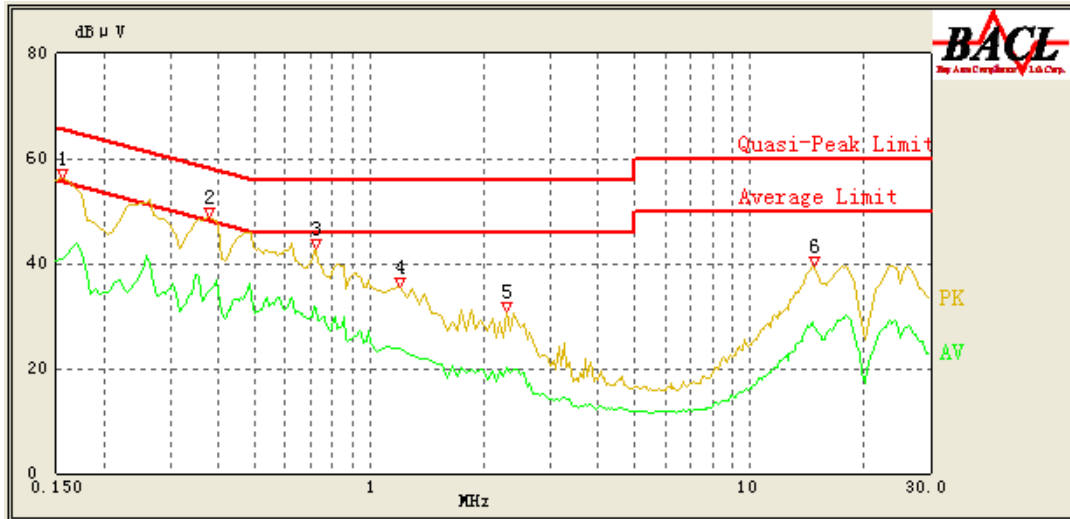
<b>Temperature:</b>	24°C
<b>Relative Humidity:</b>	50 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Annie Xuan on 2018-10-22.*



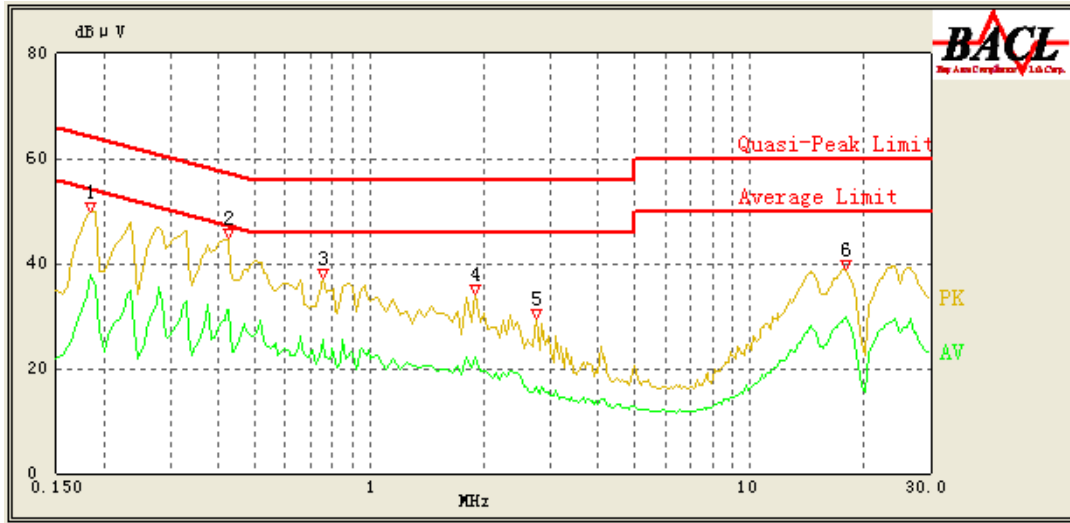
Test Mode 1

Line:



No.	Frequency (MHz)	Reading (dBμV)	Correction (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
1	0.155	56.08	16.06	65.86	9.78	QP
	0.155	41.00	16.06	55.86	14.86	AV
2	0.380	48.77	16.05	59.43	10.66	QP
	0.380	34.80	16.05	49.43	14.63	AV
3	0.720	42.90	15.95	56.00	13.10	QP
	0.720	31.58	15.95	46.00	14.42	AV
4	1.200	35.66	15.87	56.00	20.34	QP
	1.200	23.81	15.87	46.00	22.19	AV
5	2.300	30.78	15.85	56.00	25.22	QP
	2.300	20.07	15.85	46.00	25.93	AV
6	14.750	39.34	16.20	60.00	20.66	QP
	14.700	28.31	16.20	50.00	21.69	AV

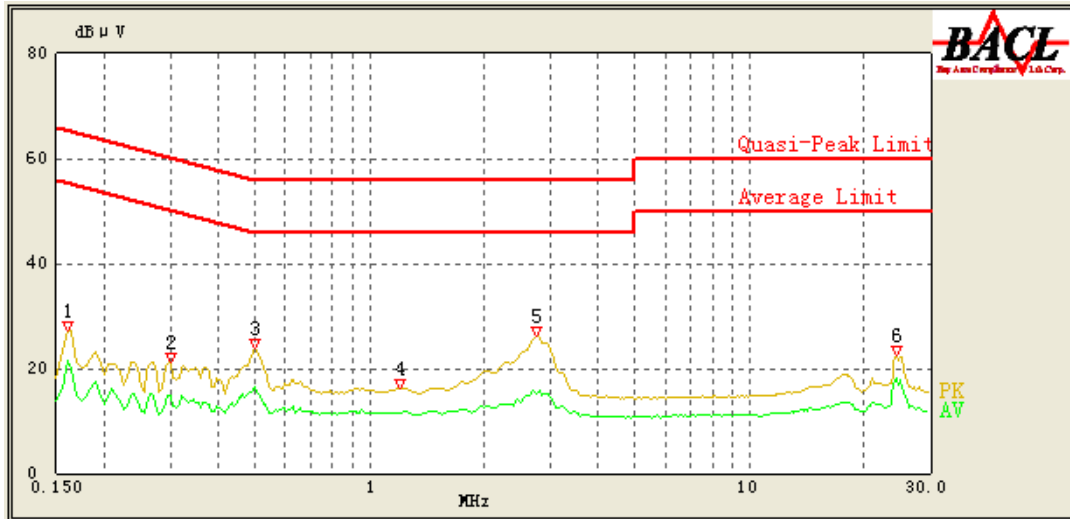
**Neutral:**



No.	Frequency (MHz)	Reading (dBμV)	Correction (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
1	0.185	49.91	16.05	65.00	15.09	QP
	0.185	38.00	16.05	55.00	17.00	AV
2	0.425	44.94	16.10	58.14	13.20	QP
	0.425	31.01	16.10	48.14	17.13	AV
3	0.755	37.11	15.98	56.00	18.89	QP
	0.755	25.36	15.98	46.00	20.64	AV
4	1.900	34.01	15.91	56.00	21.99	QP
	1.900	22.22	15.91	46.00	23.78	AV
5	2.750	29.59	15.90	56.00	26.41	QP
	2.750	16.43	15.90	46.00	29.57	AV
6	17.950	38.82	16.10	60.00	21.18	QP
	17.950	29.78	16.10	50.00	20.22	AV

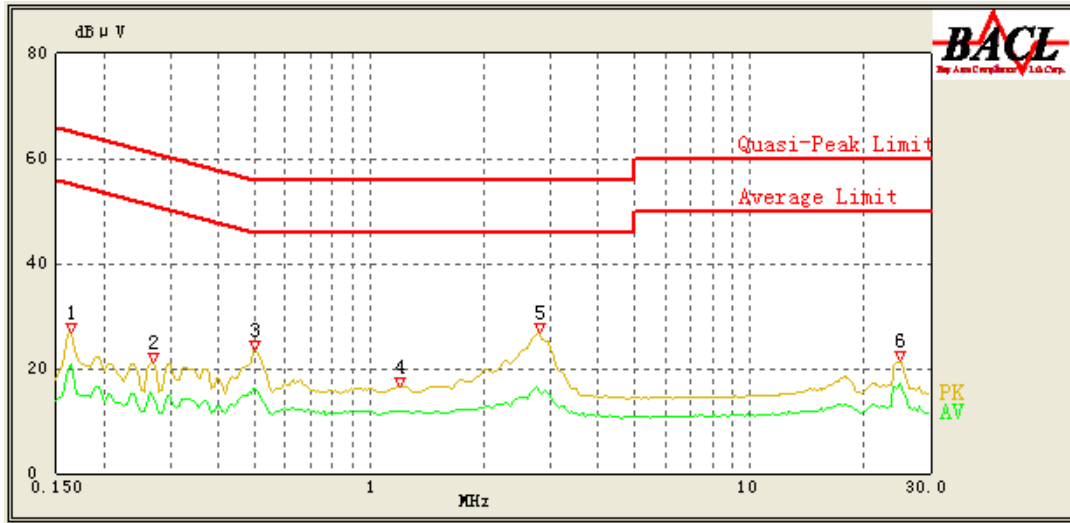
Test Mode 2

Line:



No.	Frequency (MHz)	Reading (dBµV)	Correction (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
1	0.160	27.24	16.05	65.71	38.47	QP
	0.160	21.35	16.05	55.71	34.36	AV
2	0.300	21.19	16.03	61.71	40.52	QP
	0.300	14.75	16.03	51.71	36.96	AV
3	0.500	23.74	16.08	56.00	32.26	QP
	0.500	16.52	16.08	46.00	29.48	AV
4	1.200	16.16	15.87	56.00	39.84	QP
	1.200	11.40	15.87	46.00	34.60	AV
5	2.750	26.25	15.85	56.00	29.75	QP
	2.750	15.16	15.85	46.00	30.84	AV
6	24.350	22.63	16.46	60.00	37.37	QP
	24.350	18.01	16.46	50.00	31.99	AV

**Neutral:**



No.	Frequency (MHz)	Reading (dBµV)	Correction (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
1	0.165	26.79	16.06	65.57	38.78	QP
	0.165	20.91	16.06	55.57	34.66	AV
2	0.270	21.05	16.06	62.57	41.52	QP
	0.270	14.58	16.06	52.57	37.99	AV
3	0.500	23.56	16.11	56.00	32.44	QP
	0.500	16.17	16.11	46.00	29.83	AV
4	1.200	16.49	15.93	56.00	39.51	QP
	1.200	11.91	15.93	46.00	34.09	AV
5	2.800	26.67	15.90	56.00	29.33	QP
	2.800	15.37	15.90	46.00	30.63	AV
6	25.000	21.46	16.24	60.00	38.54	QP
	25.000	17.09	16.24	50.00	32.91	AV

## RADIATION HAZARD MEASUREMENT

### Applicable Standard

FCC §18.301 & FCC §18.305

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2017-11-25	2018-11-24
YUANFANG	dynamometer	PF9901	G135716CA8361400	2018-05-22	2019-05-21
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
MC	Thermometer	N/A	N/A	2017-11-01	2018-10-31
ETS-LINDGREN	Microwave Survey Meter	HI1801	00066890	2018-01-15	2020-01-14

\* **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).

### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	50 %
<b>ATM Pressure:</b>	101.0 kPa

The testing was performed by Annie Xuan on 2018-10-31.

### Radiation Hazard Measurement For microwave

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  $0.1\text{mW}/\text{cm}^2$  observed at any point 5 cm or more from the external surface of the oven.

A maximum of  $1.0\text{mW}/\text{cm}^2$  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)	Mode
120/60	11.1	1272	1310	Microwave
120/60	9.5	1092	1140	Grill

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.

### 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  $10\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$  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  $20\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$  is measured. The oven is then switched off and the final water temperature is measured within 60 s.

<b>m<sub>w</sub></b> <b>(g)</b>	<b>m<sub>c</sub></b> <b>(g)</b>	<b>T<sub>0</sub></b> <b>(°C)</b>	<b>T<sub>1</sub></b> <b>(°C)</b>	<b>T<sub>2</sub></b> <b>(°C)</b>	<b>t</b> <b>(s)</b>
1000	377	23.4	22.5	36.1	60

RF Output Power =  $(4.187 \times 1000 \times (36.1 - 22.5) + 0.55 \times 377 \times (36.1 - 23.4)) / 60 = 992.9$  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-B, 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-B, the measured out-of-band emissions were compared with the limit calculated as following:

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

$$LFS = 25 * \text{SQRT} (992.9/500)$$

$$LFS = 35.22$$

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

<b>LFS</b> <b>µV/m@300m</b>	<b>dBµV/m@300m</b>	<b>dBµV/m@3m</b>
35.22	30.90	70.90

**Note:** Limit (dBµV/m@3m) = Limit (dBµV/m@300m) + 40(dB)

## Operating Frequency Measurement

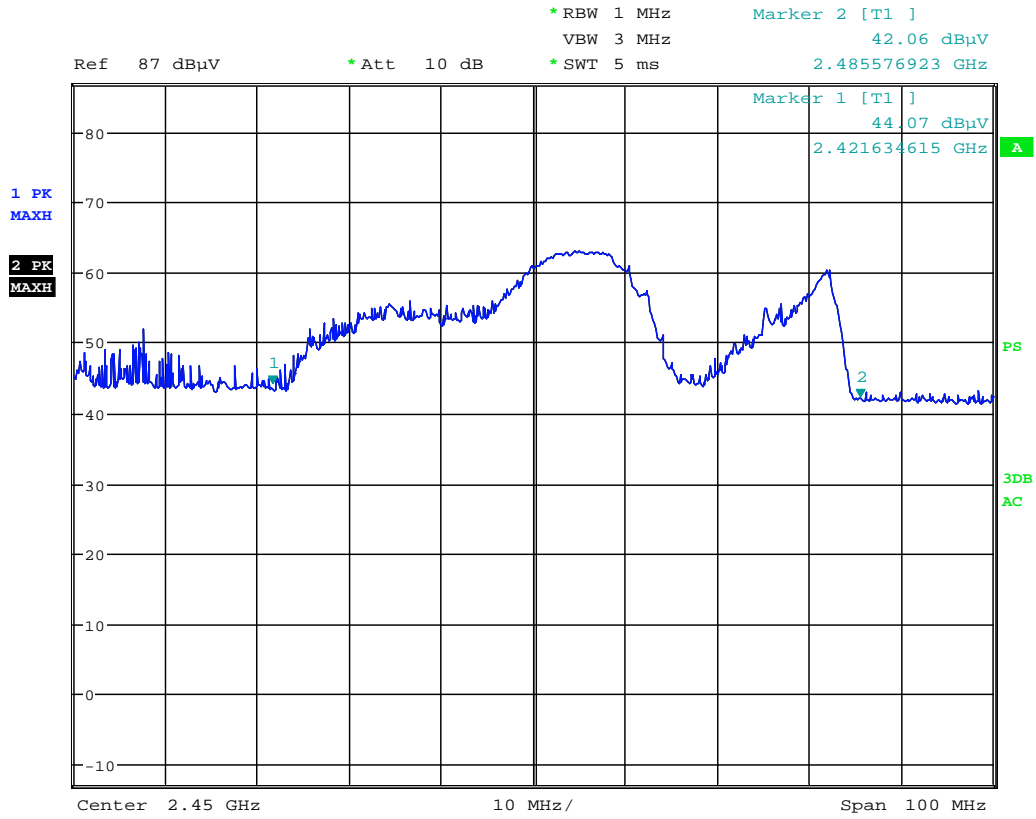
### Variation in Operating Frequency with Time

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:

Low Frequency (MHz)	High Frequency (MHz)
2424.63	2485.58

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



Date: 31.OCT.2018 23:45:26



**Variation in Operating Frequency with Line Voltage**

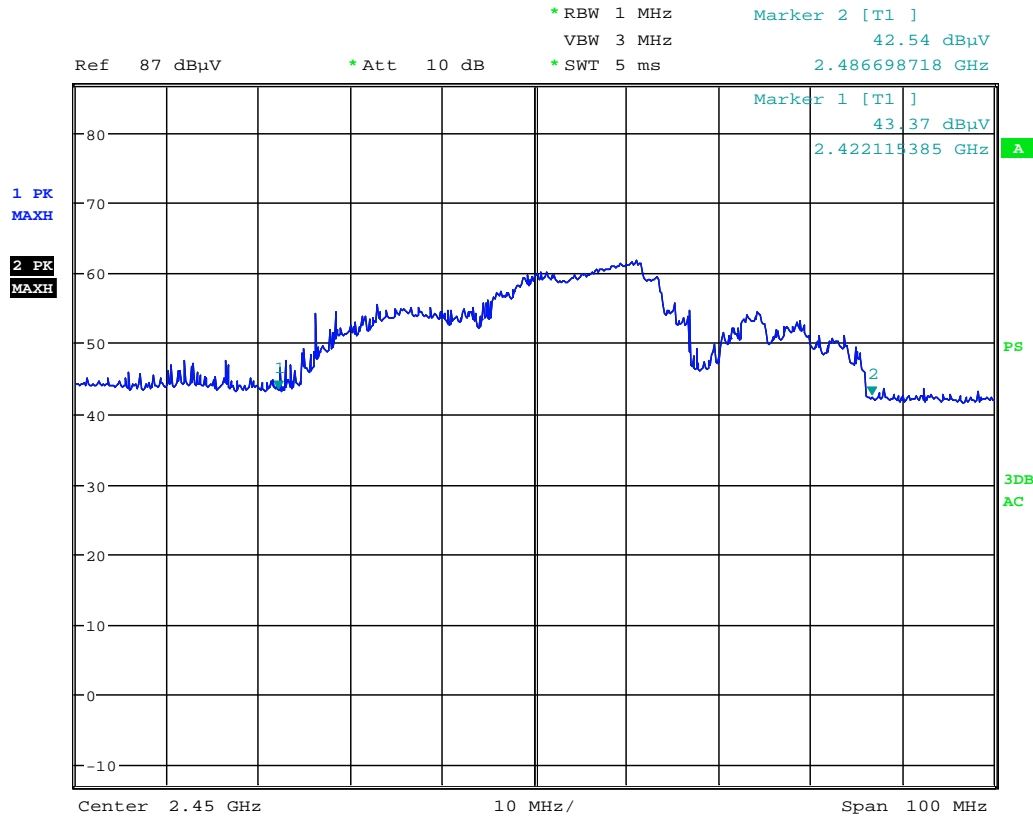
The EUT was operated / warmed by at least 10 minutes of use with a 1000 mL water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.

The results of this test are as follows:

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

Low Frequency (MHz)	High Frequency (MHz)
2422.12	2486.70

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



**Radiation Hazard Measurement For Grill**

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

$LFS = 15 * \sqrt{\text{Power Output}/500}$

$LFS = 15 * \sqrt{1100/500}$

$LFS = 22.25$

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 $\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@3\text{m}$
22.25	26.9	66.9

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

## RADIATED EMISSIONS

### Applicable Standard

FCC §18.305 、 §18.309

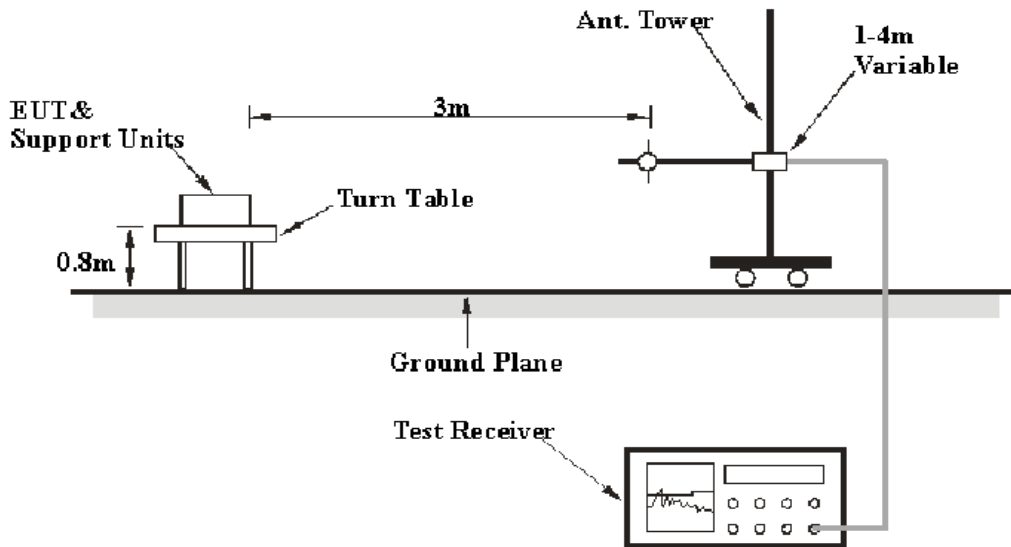
### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

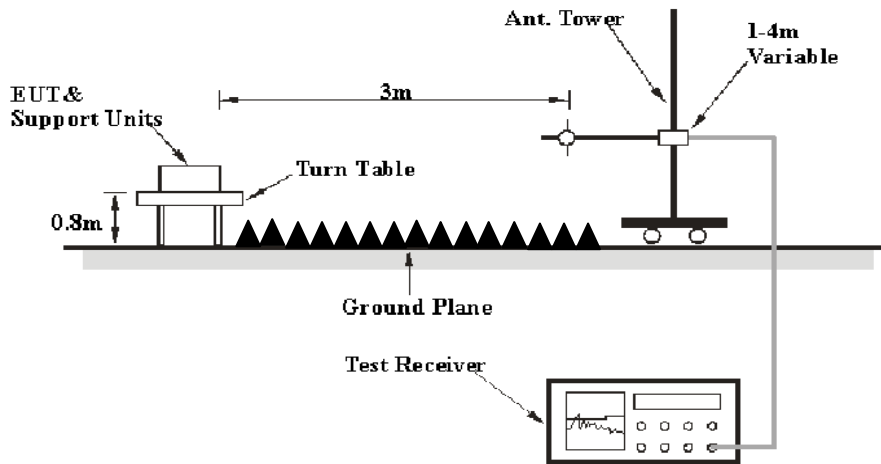
Item	Measurement Uncertainty	$U_{cispr}$	
Radiated Emission	30MHz~1GHz	6.11dB	6.3 dB
	1GHz~6GHz	4.45dB	5.2 dB
	6 GHz ~18 GHz	5.23dB	5.5 dB

### 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 EUT was connected to 120 VAC/60 Hz power source.

**EMI Test Receiver Setup**

The system was investigated from 30 MHz to 18 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector Type
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	1MHz	AVG

**Test Procedure**

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

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

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sonoma Instrument	Amplifier	310N	185700	2018-08-14	2019-08-13
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2017-11-12	2018-11-11
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2016-01-09	2019-01-08
Champrotek	Chamber	Chamber A	T-KSEMC049	-	-
Champrotek	Chamber	Chamber B	T-KSEMC080	-	-
R&S	Auto test Software	EMC32	100361	-	-
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
Rohde & Schwarz	EMI Receiver	ESU40	100207	2018-08-27	2019-08-26
Narda	Pre-amplifier	AFS42-00101800	2001270	2017-12-12	2018-12-11
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-4	004	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-5	005	2018-08-15	2019-08-14

\* **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).

### 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 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

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

### Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 18, the worst margin reading as below:

**18.10 dB** at **246.067500MHz** in the **Horizon** polarization (30 MHz – 1 GHz) For Microwave mode  
**16.38 dB** at **7616.400000 MHz** in the **Vertical** polarization (1GHz – 18 GHz) For Microwave mode

**Test Data**

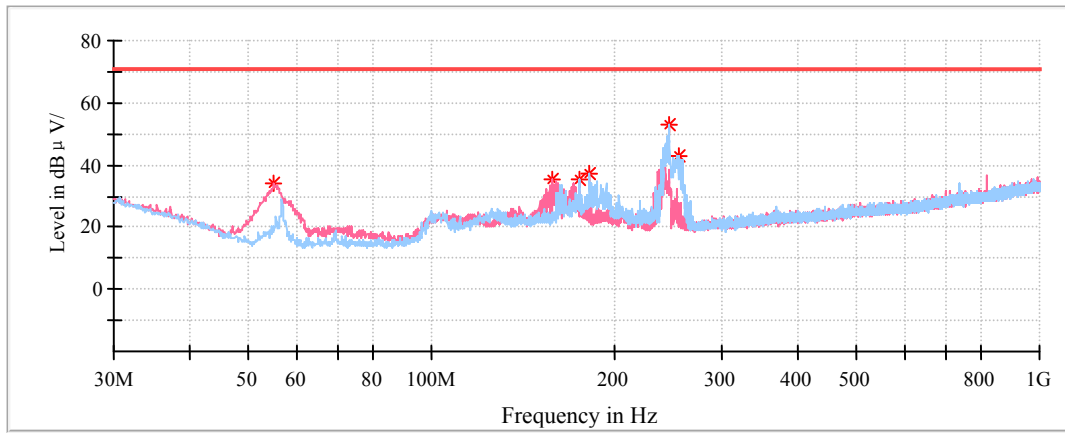
**Environmental Conditions**

<b>Temperature:</b>	20.2 °C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	101.0 kPa

The testing was performed by Annie Xuan on 2018-10-24.

Test Mode 1

**1)30MHz ~ 1GHz:**



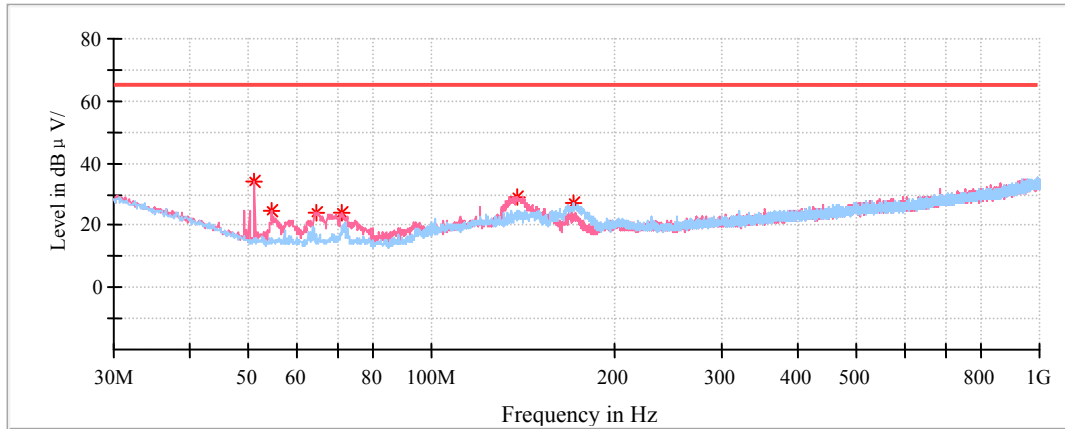
Frequency (MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.098750	33.84	70.90	37.06	100.0	V	339.0	-17.7
158.040000	35.07	70.90	35.83	100.0	V	247.0	-12.6
175.257500	35.24	70.90	35.66	100.0	H	331.0	-13.4
181.805000	37.49	70.90	33.41	100.0	H	335.0	-13.5
246.067500	52.80	70.90	18.10	100.0	H	2.0	-12.1
255.403750	42.83	70.90	28.07	200.0	H	328.0	-11.9

**Above 1 GHz:**

Frequency (MHz)	Max Peak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1751.400000	---	38.38	70.90	32.52	100.0	V	354.0	-6.7
2210.400000	---	52.36	70.90	18.54	200.0	H	87.0	-5.2
2944.800000	---	38.94	70.90	31.96	200.0	V	18.0	-1.9
4406.800000	---	50.14	70.90	20.76	100.0	V	358.0	1.3
7616.400000	---	54.52	70.90	16.38	200.0	V	18.0	10.0
8327.000000	---	48.91	70.90	21.99	100.0	V	0.0	10.6
16976.600000	---	46.76	70.90	24.14	100.0	V	9.0	14.6

Test Mode 2

2)30MHz ~ 1GHz:



Frequency (MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.218750	34.30	66.90	32.60	200.0	V	184.0	-17.6
54.492500	24.82	66.90	42.08	200.0	V	138.0	-17.7
64.435000	24.18	66.90	42.72	100.0	V	0.0	-17.6
71.346250	23.97	66.90	42.93	100.0	V	145.0	-17.3
138.033750	29.26	66.90	37.64	100.0	V	46.0	-11.9
170.892500	26.99	66.90	39.91	200.0	H	134.0	-13.2



**Above 1 GHz:**

Frequency (MHz)	Max Peak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1163.200000	---	22.94	66.90	43.96	200.0	V	359.0	-9.5
3006.000000	---	28.31	66.90	38.59	200.0	H	315.0	-1.6
4825.000000	---	32.65	66.90	34.25	100.0	H	67.0	1.9
7137.000000	---	37.68	66.90	29.22	200.0	V	211.0	8.7
10302.400000	---	41.51	66.90	25.39	100.0	V	11.0	12.7
17503.600000	---	46.34	66.90	20.56	200.0	V	168.0	17.2
1163.200000	---	22.94	66.90	43.96	200.0	V	359.0	-9.5

FINAL

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