



# **TEST REPORT**

Applicant Name: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd

Address: No.6, Yong An Road, Beijiao, Shunde, Foshan City, Guangdong

Province, China

Report Number: RA230418-20275E-EM-00A

FCC ID: VG8XM0P04YYW

Test Standard (s)

FCC Part 18

**Sample Description** 

Product Type: Microwave Oven

Model No.: EM0P042SU-PS0A00, EM0P04##-PS0A00,

EM0P04\*\*\*-PS0A00, SMC1169HS

Trade Mark: MIDEA, sharp Date Received: 2023-04-18

Date of Test: 2023-04-25 to 2023-04-26

Report Date: 2023-05-07

Test Result: Pass\*

Prepared and Checked By: Approved By:

Zeki Ma Candy, Ci

Zeki.Ma Candy Li

EMC Engineer EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk " $\bigstar$ ".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '\*'. Customer model name, addresses, names, trademarks etc. are not considered data.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards above.

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# **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA230418-20275E-EM-00A	Original Report	2023-05-07

#### **GENERAL INFORMATION**

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

Product	Microwave Oven
Tested Model	EM0P042SU-PS0A00
Multiple Model	EM0P04##-PS0A00, EM0P04***-PS0A00, SMC1169HS
Model difference*	Please refer to the DoS letter.
Voltage Range	AC 120V/60Hz
Highest operating frequency	2450 MHz
Microwave Output power	1000W
Microwave Input power	1600W
Sample serial number	RA230418-20275E-EM-S1 (Assigned by ATC)
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 Commission's rules and regulations.

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

## **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 Shenzhen Accurate Technology Co., Ltd. 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
RF Fr	equency	$0.082*10^{-7}$
AC Power Lines C	Conducted Emissions	2.74dB
<b>.</b>	30MHz - 1GHz	5.08dB
Emissions, Radiated	1GHz - 18GHz	4.96dB
	18GHz - 26.5GHz	5.16dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

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.

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#### **Test Facility**

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, 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.: 708358, the FCC Designation No.: CN1189.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 30241.

## 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.

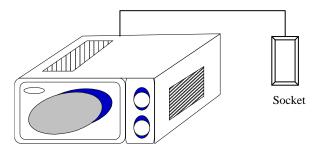
## **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
/	Glass beaker	/	/

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

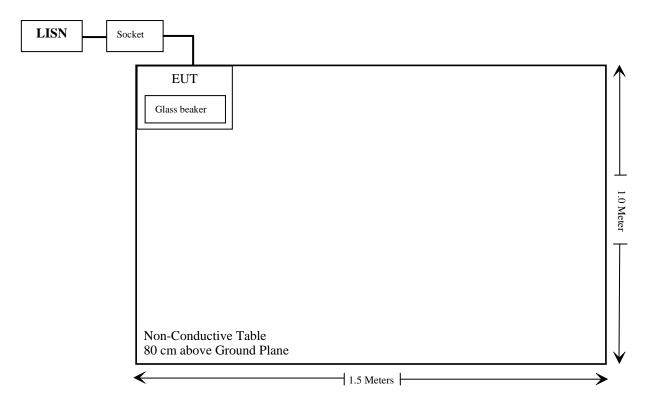
Cable Description	Length (m)	From/Port	То
Unshielded un-detachable AC cable	1.05	EUT	Socket
Unshielded un-detachable AC cable	1.01	Socket	LISN

## **Configuration of Test Setup**

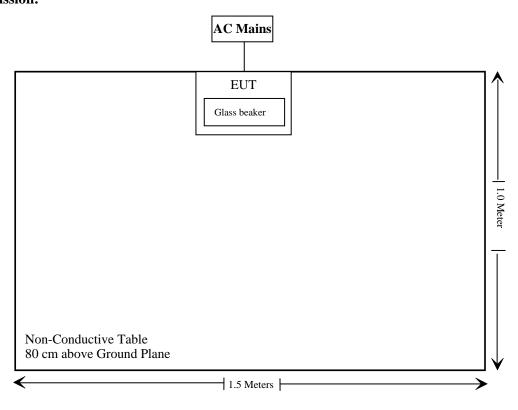


# **Block Diagram of Test Setup**

## **For Conducted Emission:**



## For Radiated Emission:



# SUMMARY OF TEST RESULT

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

# TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		Conducted Emis	sions Test		
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24
R & S	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24
Anritsu Corp	50Ω Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
	Conducted I	Emission Test Soft	tware: e3 191218 (	V9)	
		Radiated Emiss	ions Test		
Rohde & Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Wainwright	Band Reject Filter	WRCG2400/24 85-2375/2510- 60/11SS	10	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
	Radiated Emission Test Software:e3 191218 (V9)				
Radiation Hazard Measurement					
Qingzhi	Digital Power Meter	8716C	870307126	2022/11/23	2023/11/22
OHAUS	Electronic Scale	R2000-6	8339220237	2022/11/23	2023/11/22
MC	Thermometer	Unknown	Unknown	2022/10/31	2023/10/30
	Ma	ximum Permissi	ble Exposure		
ETS	Microwave Survery Meter	1501	123654	2022/10/11	2023/10/10

<sup>\*</sup> Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. 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

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#### **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/f²)	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:	23 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2023-04-25.

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 <u>0.1mW/cm<sup>2</sup></u> observed at any point 5 cm or more from the external surface of the oven.

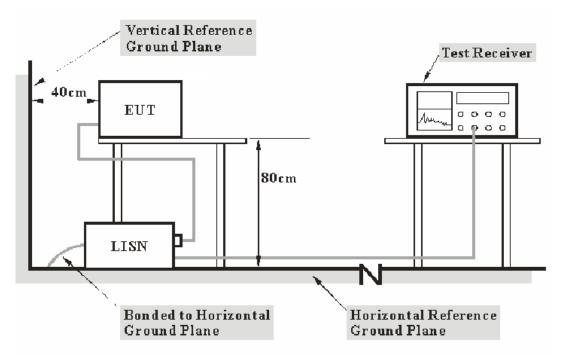
A maximum of 1.0 mW/cm<sup>2</sup> is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

## **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 120 V AC / 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.

## **Factor & Margin Calculation**

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

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Factor = LISN VDF + Cable Loss

The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

#### **Test Data**

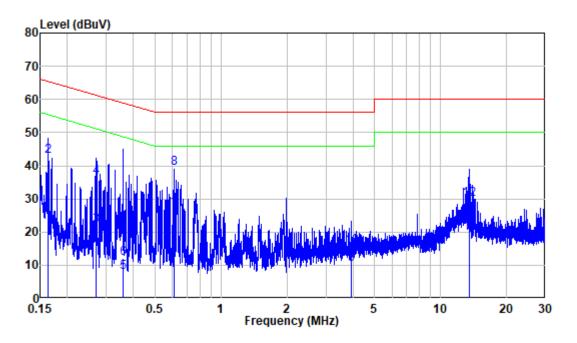
## **Environmental Conditions**

Temperature:	23 °C
Relative Humidity:	49 %
ATM Pressure:	101.0 kPa

The testing was performed by Jerry Wu on 2023-04-25.

Test mode: Microwave

# AC 120V/60 Hz, Line



Site : Shielding Room

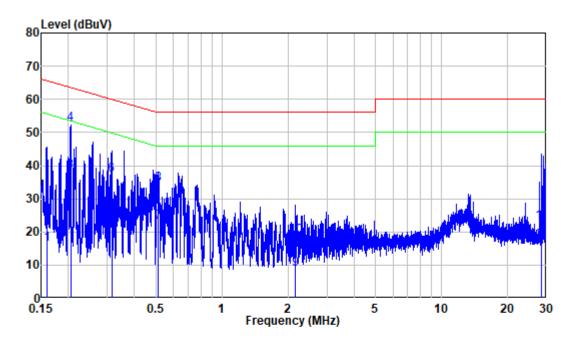
Condition: Line

Job No. : RA230418-20275E-EM

Mode : Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.164	9.98	15.55	25.53	55.27	-29.74	Average
2	0.164	9.98	32.90	42.88	65.27	-22.39	QP
3	0.271	10.01	11.97	21.98	51.08	-29.10	Average
4	0.271	10.01	26.52	36.53	61.08	-24.55	QP
5	0.359	10.03	-2.05	7.98	48.75	-40.77	Average
6	0.359	10.03	2.18	12.21	58.75	-46.54	QP
7	0.614	10.13	16.58	26.71	46.00	-19.29	Average
8	0.614	10.13	29.20	39.33	56.00	-16.67	QP
9	3.933	10.54	-0.22	10.32	46.00	-35.68	Average
10	3.933	10.54	5.29	15.83	56.00	-40.17	QP
11	13.452	13.85	5.90	19.75	50.00	-30.25	Average
12	13.452	13.85	15.91	29.76	60.00	-30.24	QP

## AC 120V/60 Hz, Neutral



Site : Shielding Room

Condition: Neutral

Job No. : RA230418-20275E-EM

Mode : Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.160	10.18	6.06	16.24	55.47	-39.23	Average
2	0.160	10.18	14.14	24.32	65.47	-41.15	QP
3	0.205	10.19	28.23	38.42	53.43	-15.01	Average
4	0.205	10.19	42.47	52.66	63.43	-10.77	QP
5	0.314	10.27	9.99	20.26	49.86	-29.60	Average
6	0.314	10.27	26.80	37.07	59.86	-22.79	QP
7	0.510	10.34	12.49	22.83	46.00	-23.17	Average
8	0.510	10.34	24.09	34.43	56.00	-21.57	QP
9	2.161	10.03	-1.13	8.90	46.00	-37.10	Average
10	2.161	10.03	8.77	18.80	56.00	-37.20	QP
11	28.414	14.13	3.41	17.54	50.00	-32.46	Average
12	28.414	14.13	8.70	22.83	60.00	-37.17	QP

## RADIATION HAZARD MEASUREMENT

#### **Applicable Standard**

FCC §18.301 & FCC/OST MP-5

#### **Environmental Conditions**

Temperature:	23 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2023-04-25.

#### **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.

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Input Voltage	Input Current (Amps)	Measured Input Power	Rated Input Power
(V <sub>AC</sub> /Hz)		(Watts)	(Watts)
119	13.25	1576.75	1600

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

#### **Load for Household 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  $1000 \text{ g} \pm 5 \text{ g}$  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 is measured. The oven is then switched off and the final water temperature is measured within 60 s.

m <sub>w</sub> (g)	m <sub>c</sub> (g)	T <sub>0</sub> (°C)	T₁ (°C)	T <sub>2</sub> (°C)	t (s)
1000	377.0	22.8	10.2	18.9	40

RF Output Power =  $(4.187 \text{ x} \underline{1000} \text{ x} (\underline{18.9-10.2}) + 0.55 \text{ x} \underline{377.0} \text{ x} (\underline{18.9-22.8})) / \underline{40} = \underline{890.4558} \text{Watts}$ 

- 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;
- $T_0$  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.

 $\square$  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.

☑ 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\*SQRT (890.4558/500)

LFS = 33.36

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
33.36	30.46	70.46

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

#### **Operating Frequency Measurement**

#### **Variation in Operating Frequency with Time**

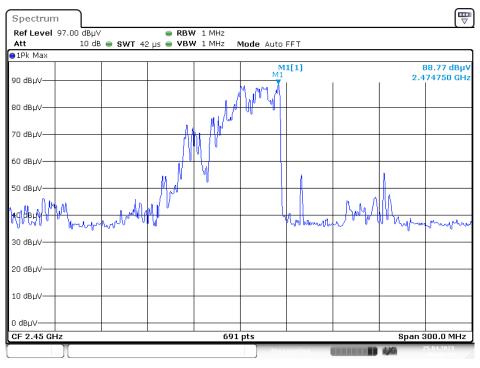
The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to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

The results of this test are as follows:

Frequency at Start time	Frequency at End time
(MHz)	(MHz)
2474.75	2461.29

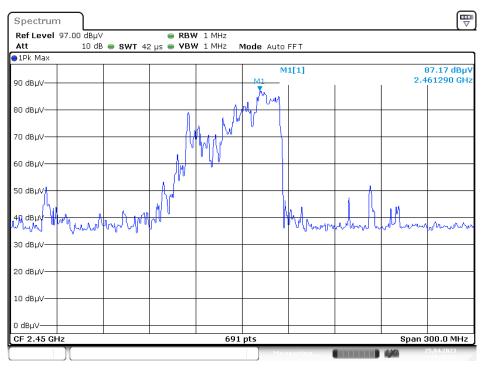
Refer to data pages for details of the variation in operating frequency with time measurement.

#### **Start Time**



Date: 25.APR.2023 09:07:31

## **End Time**



Date: 25.APR.2023 09:39:48

## 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.

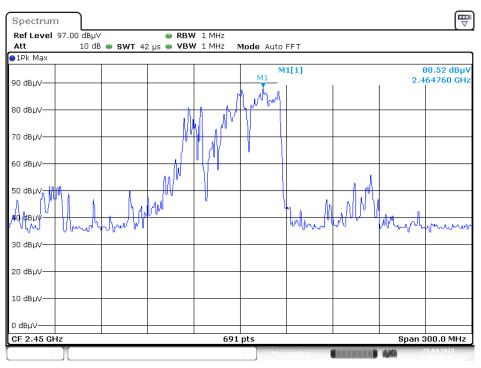
The results of this test are as follows:

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

(Low voltage) Frequency	(High voltage) Frequency				
(MHz)	(MHz)				
2464.76	2474.31				

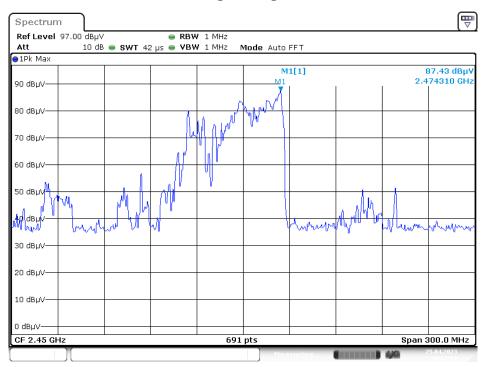
Please refer to following pages for details of the variation in operating frequency with line voltage measurement.

## Low Voltage



Date: 25.APR.2023 10:43:37

## **High Voltage**



Date: 25.APR.2023 10:11:00

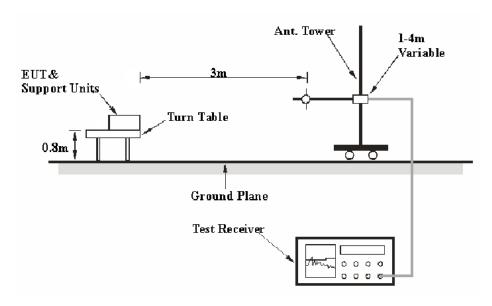
## **RADIATED EMISSIONS**

## **Applicable Standard**

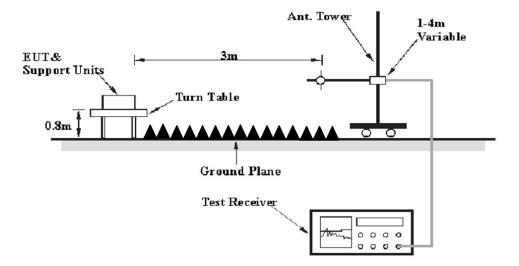
FCC §18.305 and FCC §18.309

## **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 V AC /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	30MHz – 1000 MHz 100 kHz		120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK.
Above I 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.

## **Corrected Amplitude & Margin Calculation**

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

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Over Limit/Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

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

#### **Environmental Conditions**

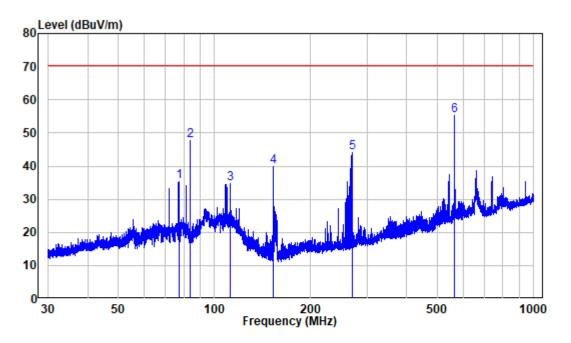
Temperature:	23 °C
Relative Humidity:	55-56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2023-04-25 for below 1G and 2023-04-26 for above 1G.

Test mode: Microwave

#### 30 MHz - 1 GHz

#### Horizontal



Site : chamber

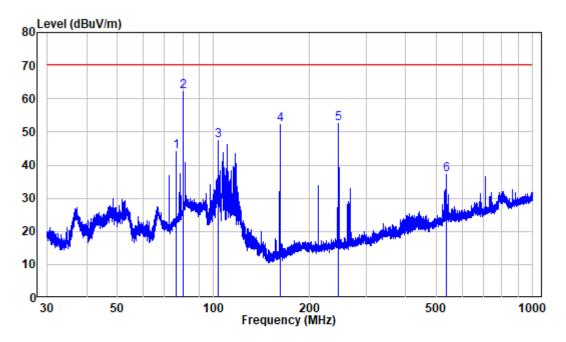
Condition: 3m HORIZONTAL

Job No. : RA230418-20275E-EM

Test Mode: Microwave

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	77.559	-16.57	51.98	35.41	70.46	-35.05	Peak
2	83.963	-16.05	63.72	47.67	70.46	-22.79	Peak
3	111.787	-12.21	46.87	34.66	70.46	-35.80	Peak
4	152.464	-15.14	55.07	39.93	70.46	-30.53	Peak
5	269.192	-10.26	54.45	44.19	70.46	-26.27	Peak
6	564.391	-3.91	59.20	55.29	70.46	-15.17	Peak





Site : chamber Condition: 3m VERTICAL

Job No. : RA230418-20275E-EM

Test Mode: Microwave

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	76.345	-16.45	60.65	44.20	70.46	-26.26	Peak
2	80.327	-16.77	79.09	62.32	70.46	-8.14	Peak
3	103.306	-11.68	59.03	47.35	70.46	-23.11	Peak
4	162.041	-14.29	66.62	52.33	70.46	-18.13	Peak
5	246.275	-10.62	63.10	52.48	70.46	-17.98	Peak
6	537,118	-4.21	41.42	37.21	70.46	-33.25	Peak

#### 1 GHz - 25 GHz:

Frequency (MHz)	Receiver		Turntable	Rx Antenna			Corrected	Limit	Margin
	Reading (dBµV)	PK/QP/AV	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	(dBµV/m)	(dB)
2312.438	46.80	AV	110	1.2	Н	-10.39	36.41	70.46	-34.05
2312.438	49.40	AV	320	1.8	V	-10.39	39.01	70.46	-31.45
2530.938	50.30	AV	194	1.6	Н	-10.55	39.75	70.46	-30.71
2530.938	50.20	AV	266	1.9	V	-10.55	39.65	70.46	-30.81
4224.313	50.50	AV	5	2	Н	-7.55	42.95	70.46	-27.51
4224.313	49.11	AV	181	1.4	V	-7.55	41.56	70.46	-28.90
700ml Water									
4938.750	44.50	AV	25	2	Н	-5.60	38.90	70.46	-31.56
4938.750	46.31	AV	202	2.1	V	-5.60	40.71	70.46	-29.75
7371.000	42.60	AV	226	1.7	Н	0.17	42.77	70.46	-27.69
7371.000	43.51	AV	146	1.9	V	0.17	43.68	70.46	-26.78
300ml Water									
4938.750	46.08	AV	112	1.9	Н	-5.60	40.48	70.46	-29.98
4938.750	47.26	AV	316	2.3	V	-5.60	41.66	70.46	-28.80
7371.000	44.56	AV	186	1.5	Н	0.17	44.73	70.46	-25.73
7371.000	44.47	AV	348	2.2	V	0.17	44.64	70.46	-25.82

Note:

Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor Corrected Amplitude = Factor + Reading Margin = Corrected Amplitude - Limit

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