

# TEST REPORT

**Applicant: Whirlpool Microwave Products Development Limited.**

Address: 17th Fl, Elite Centre, 22 Hung To Rd, Kwun Tong, Hong Kong

**FCC ID: PR4FLUSHP2X**

**Product Name: Microwave Oven**

**Model Number: KMMF730**

**Standard(s): FCC PART 18  
FCC MP-5:1986**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number: CR230849087-00A**

**Date Of Issue: 2023/9/21**

**Reviewed By: Calvin Chen**

Title: RF Engineer

**Approved By: Sun Zhong**

Title: Manager

**Test Laboratory: China Certification ICT Co., Ltd (Dongguan)**

No. 113, Pingkang Road, Dalang Town, Dongguan,

Guangdong, China

Tel: +86-769-82016888

## Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

## Declarations

China Certification ICT Co., Ltd (Dongguan) 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 a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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# CONTENTS

<b>DOCUMENT REVISION HISTORY .....</b>	<b>4</b>
<b>1. GENERAL INFORMATION.....</b>	<b>5</b>
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....	5
1.2 DESCRIPTION OF TEST CONFIGURATION .....	6
1.2.1 EUT Operation Condition:.....	6
1.2.2 Support Equipment List and Details .....	6
1.2.3 Support Cable List and Details .....	6
1.2.4 Block Diagram of Test Setup.....	7
1.3 MEASUREMENT UNCERTAINTY .....	8
<b>2. SUMMARY OF TEST RESULTS .....</b>	<b>9</b>
<b>3. REQUIREMENTS AND TEST PROCEDURES .....</b>	<b>10</b>
3.1 AC LINE CONDUCTED EMISSIONS .....	10
3.1.1 EUT Setup.....	10
3.1.2 EMI Test Receiver Setup .....	10
3.1.3 Test Procedure .....	11
3.1.4 Corrected Amplitude & Margin Calculation.....	11
3.2 RADIATION SPURIOUS EMISSIONS .....	12
3.2.1 EUT Setup.....	12
3.2.2 EMI Test Receiver Setup .....	13
3.2.3 Test Procedure .....	13
3.2.4 Corrected Amplitude & Margin Calculation.....	13
3.3 RADIATION HAZARD MEASUREMENT .....	14
3.3.1 Applicable Standard.....	14
3.3.2 Test Procedure .....	14
1) Input Power .....	14
2) RF Output Power .....	14
3) Operating Frequency .....	15
<b>4. TEST DATA AND RESULTS.....</b>	<b>16</b>
4.1 AC LINE CONDUCTED EMISSIONS .....	16
4.2 RADIATION SPURIOUS EMISSIONS .....	19
4.3 RADIATION HAZARD MEASUREMENT .....	23
<b>5. EUT PHOTOGRAPHS.....</b>	<b>29</b>
<b>6. TEST SETUP PHOTOGRAPHS .....</b>	<b>30</b>

## DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230849087-00A	Original Report	2023/9/21

## 1. GENERAL INFORMATION

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

<b>EUT Name:</b>	Microwave Oven
<b>EUT Model:</b>	KMMF730
<b>Microwave Output Power:</b>	950W
<b>Input Power:</b>	1800W
<b>Serial Number:</b>	2A9Z-1
<b>EUT Received Date:</b>	2023/8/25
<b>EUT Received Status:</b>	Good

### Accessory Information:

<b>Accessory Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Parameters</b>
/	/	/	/

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in maximum (continuous) RF output power, which was provided by the manufacturer. The loads consisted of water in a glass beaker in the amounts specified in the test procedure Test Model: Operation
<b>Equipment Modifications:</b>	No
<b>EUT Exercise Software:</b>	No

### 1.2.2 Support Equipment List and Details

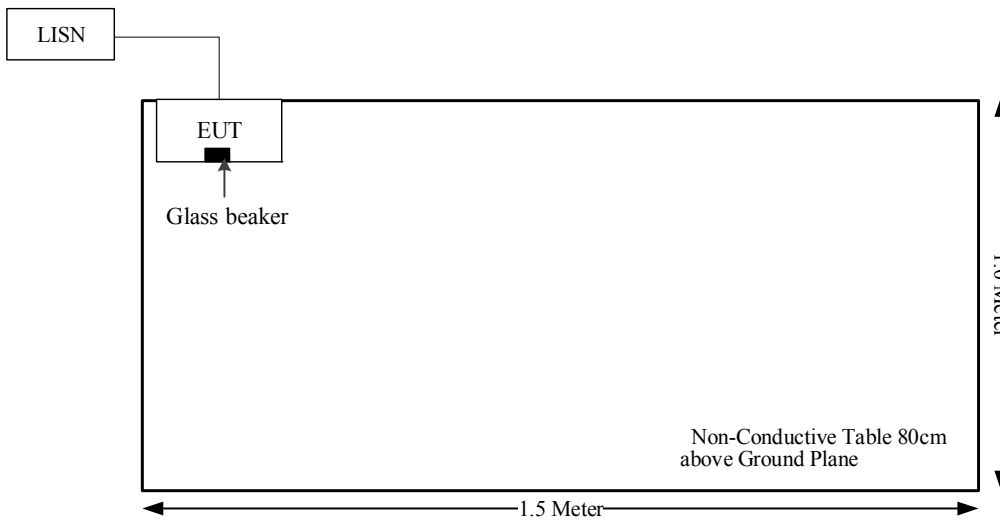
Manufacturer	Description	Model	Serial Number
Unknown	Glass Beaker	Unknown	Unknown

### 1.2.3 Support Cable List and Details

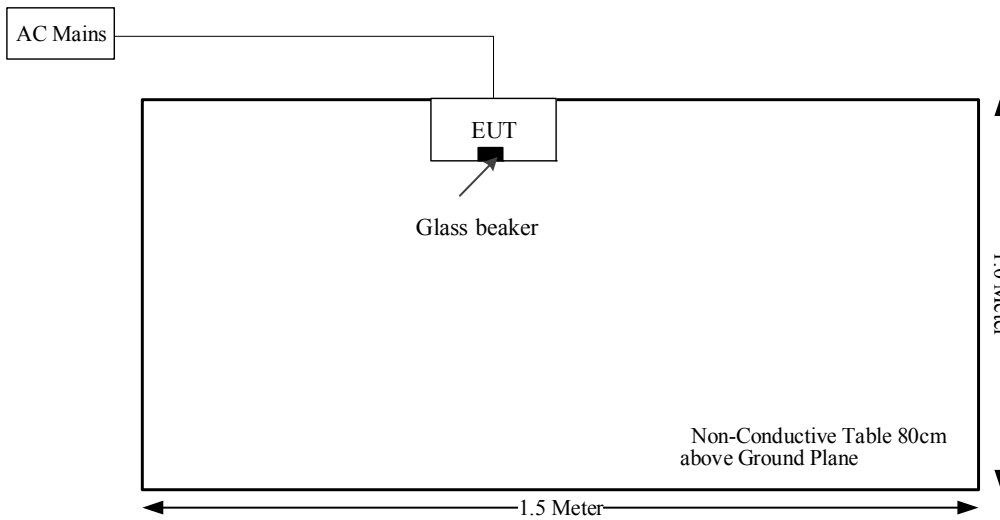
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	1	Socket	EUT

### 1.2.4 Block Diagram of Test Setup

Conducted emissions:



Radiated emissions:



### 1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	±1°C
Humidity	±5%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)



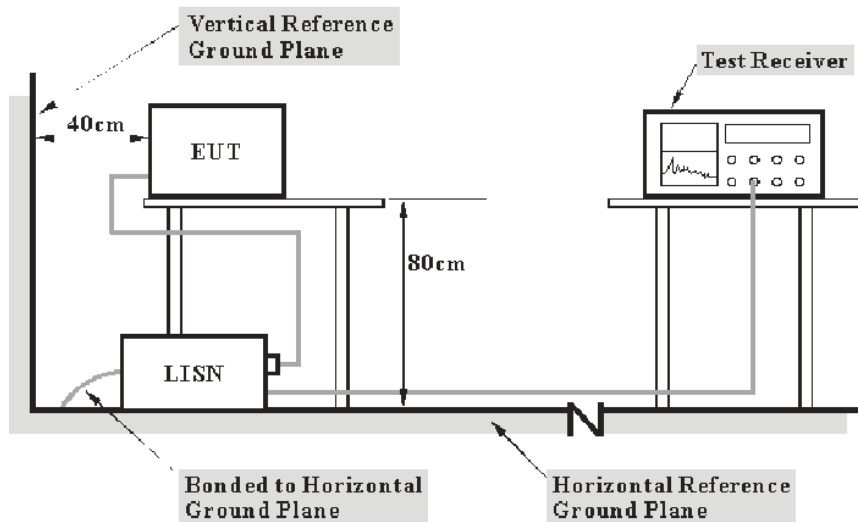
## 2. SUMMARY OF TEST RESULTS

Standard Clause	Description of Test	Test Result
FCC §18.307	Conducted emissions	Compliant
FCC §18.305, §18.309	Radiated emissions	Compliant
FCC/OST MP-5 FCC §18.301	Radiation Hazard Measurement	Compliant

### 3. REQUIREMENTS AND TEST PROCEDURES

#### 3.1 AC Line Conducted Emissions

##### 3.1.1 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 per MP-5:1986 measurement procedure. The specification used was with the FCC Part 18.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

##### 3.1.2 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

### 3.1.3 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT, the report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

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

The report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

### 3.1.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

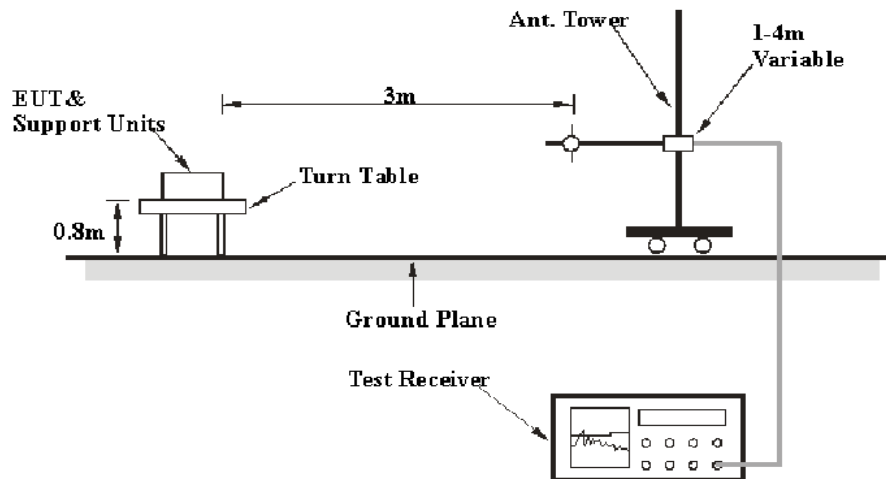
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

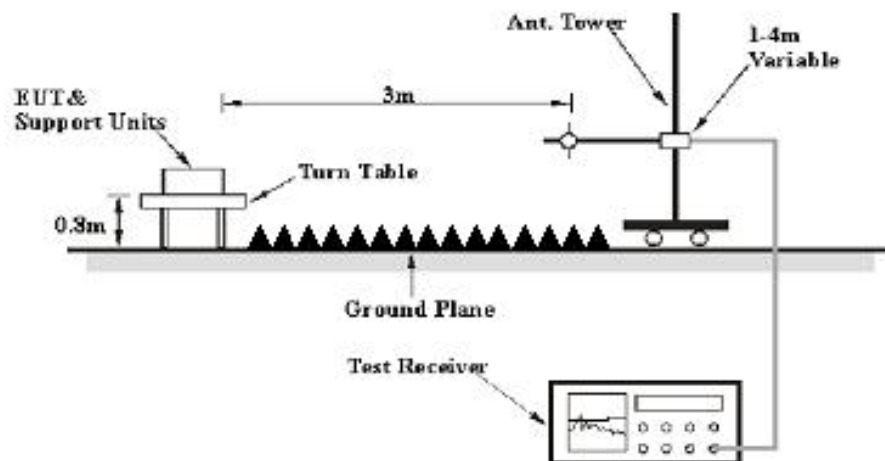
## 3.2 Radiation Spurious Emissions

### 3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission 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.

### 3.2.2 EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 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	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10Hz	/	AVG

If the maximized peak measured value complies with under the limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

### 3.2.3 Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

### 3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

### 3.3 Radiation Hazard Measurement

#### 3.3.1 Applicable Standard

FCC §18.301

#### 3.3.2 Test Procedure

##### 1) 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.

##### 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.

##### 2) RF Output Power

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.

### **3) Operating Frequency**

#### **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.

#### **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.

## 4. TEST DATA AND RESULTS

### 4.1 AC Line Conducted Emissions

Serial Number:	2A9Z-1	Test Date:	2023/9/19
Test Site:	CE	Test Mode:	Operation
Tester:	David Huang	Test Result:	Pass

#### Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	55	ATM Pressure: (kPa)	100.1
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#### Test Equipment List and Details:

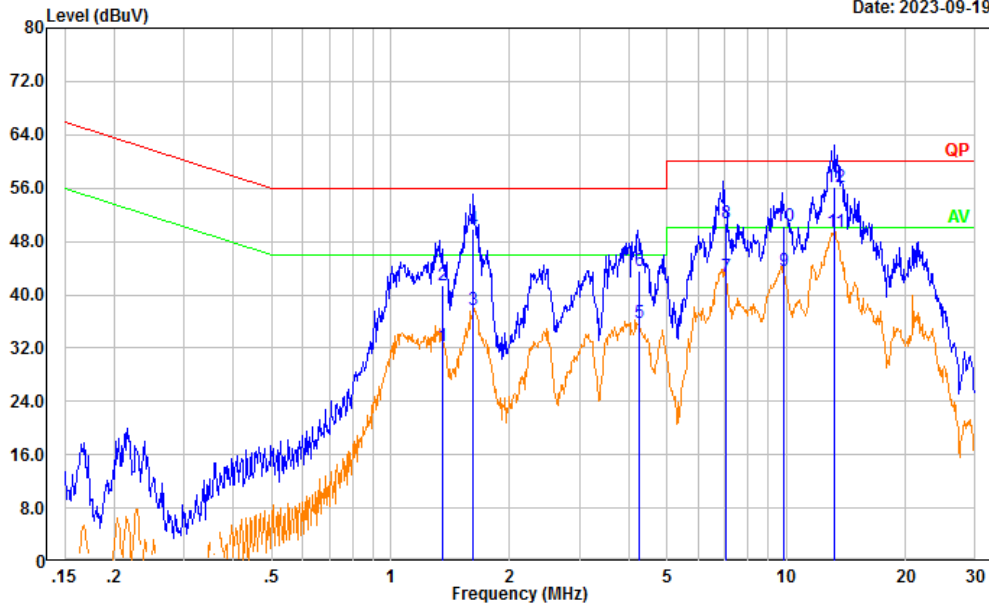
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/03/31	2024/03/30
R&S	EMI Test Receiver	ESR3	102726	2023/03/31	2024/03/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/08/06	2024/08/05
Audix	Test Software	E3	190306 (V9)	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).



Project No.: CR230849087-RF  
 Tester: David Huang  
 Port: Line  
 Note:

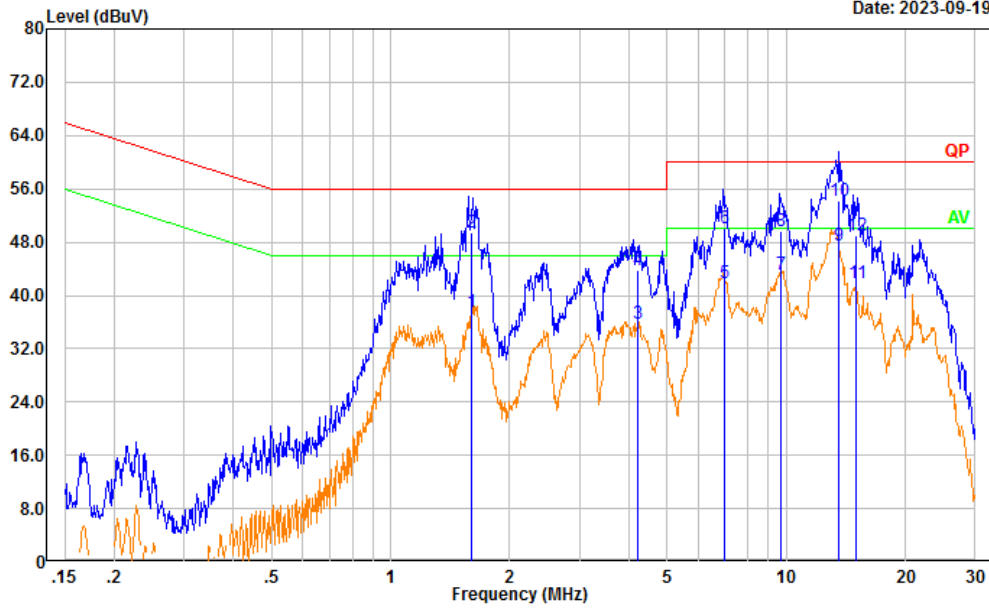
Date: 2023-09-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	1.352	22.71	9.62	32.33	46.00	13.67	Average
2	1.352	31.88	9.62	41.50	56.00	14.50	QP
3	1.619	28.18	9.63	37.81	46.00	8.19	Average
4	1.619	40.31	9.63	49.94	56.00	6.06	QP
5	4.232	26.17	9.65	35.82	46.00	10.18	Average
6	4.232	33.84	9.65	43.49	56.00	12.51	QP
7	7.026	33.14	9.66	42.80	50.00	7.20	Average
8	7.026	41.00	9.66	50.66	60.00	9.34	QP
9	9.833	33.83	9.67	43.50	50.00	6.50	Average
10	9.833	40.71	9.67	50.38	60.00	9.62	QP
11	13.249	39.82	9.68	49.50	50.00	0.50	Average
12	13.249	46.39	9.68	56.07	60.00	3.93	QP

Project No.: CR230849087-RF  
 Tester: David Huang  
 Port: neutral  
 Note:

Date: 2023-09-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	1.596	27.93	9.63	37.56	46.00	8.44	Average
2	1.596	39.78	9.63	49.41	56.00	6.59	QP
3	4.199	26.02	9.65	35.67	46.00	10.33	Average
4	4.199	34.24	9.65	43.89	56.00	12.11	QP
5	6.954	32.28	9.66	41.94	50.00	8.06	Average
6	6.954	40.42	9.66	50.08	60.00	9.92	QP
7	9.673	33.45	9.67	43.12	50.00	6.88	Average
8	9.673	40.07	9.67	49.74	60.00	10.26	QP
9	13.550	37.75	9.68	47.43	50.00	2.57	Average
10	13.550	44.62	9.68	54.30	60.00	5.70	QP
11	15.035	32.05	9.69	41.74	50.00	8.26	Average
12	15.035	39.38	9.69	49.07	60.00	10.93	QP

**4.2 Radiation Spurious Emissions**

Serial Number:	2A9Z-1	Test Date:	Above 1GHz: 2023/9/13 Below 1GHz: 2023/9/18
Test Site:	966-1, 966-2	Test Mode:	Operation
Tester:	Carl Xue, coco Tian	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	24.7~27.9	Relative Humidity: (%)	65~66	ATM Pressure: (kPa)	100.5~100.6
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**Test Equipment List and Details:**

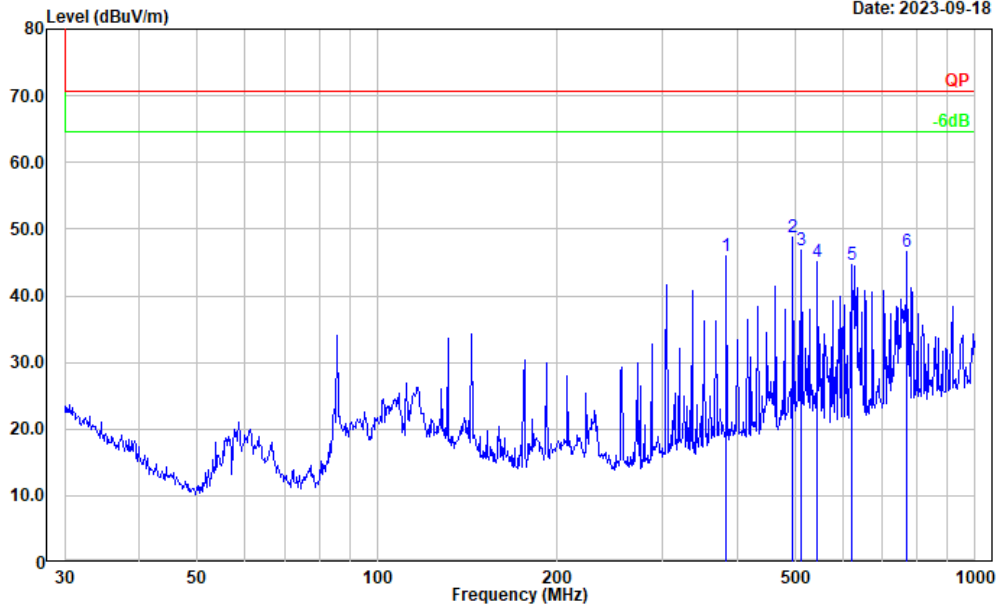
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/9/16	2023/9/15
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

1) 30MHz-1GHz:

Project No.: CR230849087-EM  
 Tester: Carl Xue  
 Polarization: horizontal  
 Note:

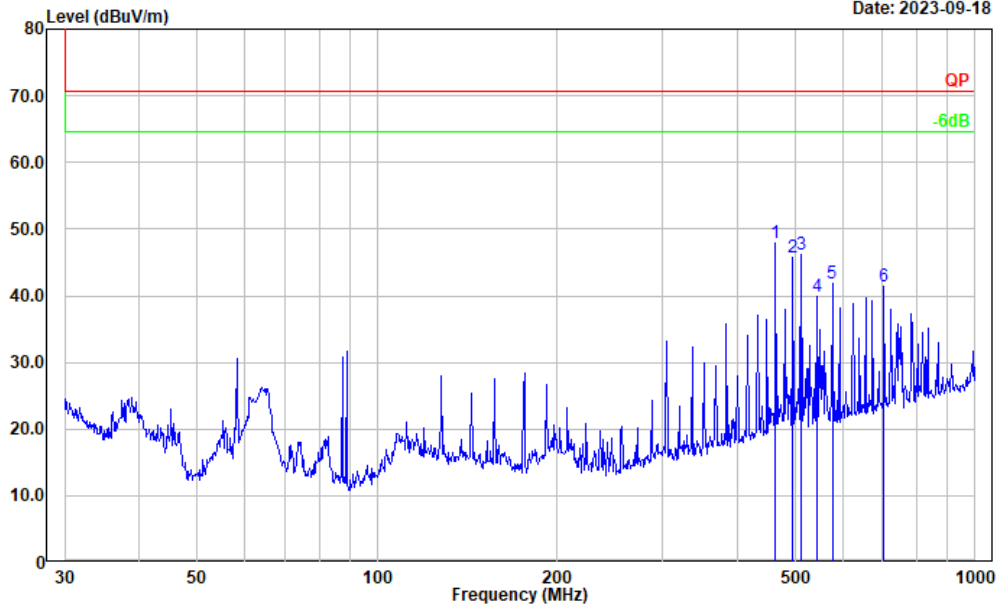
Date: 2023-09-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	383.932	55.07	-9.03	46.04	70.58	24.54	Peak
2	495.934	55.01	-6.14	48.87	70.58	21.71	Peak
3	511.835	52.67	-5.82	46.85	70.58	23.73	Peak
4	545.183	51.08	-5.88	45.20	70.58	25.38	Peak
5	620.710	49.49	-4.72	44.77	70.58	25.81	Peak
6	768.748	49.12	-2.61	46.51	70.58	24.07	Peak

Project No.: CR230849087-EM  
 Tester: Carl Xue  
 Polarization: vertical  
 Note:

Date: 2023-09-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	463.970	54.45	-6.51	47.94	70.58	22.64	Peak
2	495.934	51.98	-6.14	45.84	70.58	24.74	Peak
3	511.835	52.05	-5.82	46.23	70.58	24.35	Peak
4	545.183	45.86	-5.88	39.98	70.58	30.60	Peak
5	576.644	47.35	-5.58	41.77	70.58	28.81	Peak
6	704.226	44.87	-3.50	41.37	70.58	29.21	Peak

**2) 1-25GHz:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
1000ml water							
4954.350	27.64	AV	H	11.24	38.88	70.00	31.12
4954.350	27.64	AV	V	11.24	38.88	70.00	31.12
8543.670	26.54	AV	H	16.98	43.52	70.00	26.48
8543.670	23.51	AV	V	16.98	40.49	70.00	29.51
700ml water							
4932.510	28.54	AV	H	11.20	39.74	70.00	30.26
4932.510	27.69	AV	V	11.20	38.89	70.00	31.11
7245.520	26.54	AV	H	14.52	41.06	70.00	28.94
7245.520	27.71	AV	V	14.52	42.23	70.00	27.77
300ml water							
4942.530	29.35	AV	H	11.22	40.57	70.00	29.43
4942.530	28.46	AV	V	11.22	39.68	70.00	30.32
7405.730	27.52	AV	H	14.98	42.50	70.00	27.50
7405.730	28.11	AV	V	14.98	43.09	70.00	26.91

**4.3 Radiation Hazard Measurement**

Serial Number:	2A9Z-1	Test Date:	2023/9/19
Test Site:	966-1	Test Mode:	Operation
Tester:	coco Tian	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	26.1	Relative Humidity: (%)	66	ATM Pressure: (kPa)	100.6
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
YOKOGAWA	Digital Power Meter	WT210	CR23142113	2023/8/6	2024/8/5
FLLIKE	Temperature measuring instrument	725	BC-TL-504	2023/3/31	2024/3/30
Dingxing	Electronic Balance	DSII-861	215219	2023/9/8	2024/9/7

\* **Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data:**

**1) Input Power**

Input Voltage (V <sub>AC</sub> /Hz)	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
120.1	15.38	1847.14	1800

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

**2) RF Output Power**

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	24.1	10.1	19.3	41

RF Output Power =  $(4.187 \times 1000 \times (19.3-10.1) + 0.55 \times 377.0 \times (19.3-10.1)) / 41 = 915.247$ 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-C, the measured out-of-band emissions were compared to the limit of 25µV/meter at a 300-meter measurement distance.

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

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

$$LFS = 25 * \text{SQRT} (915.247/500)$$

$$LFS = 33.82$$

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.

LFS µV/m@300m	dBµV/m@300m	dBµV/m@3m
33.82	30.58	70.58

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



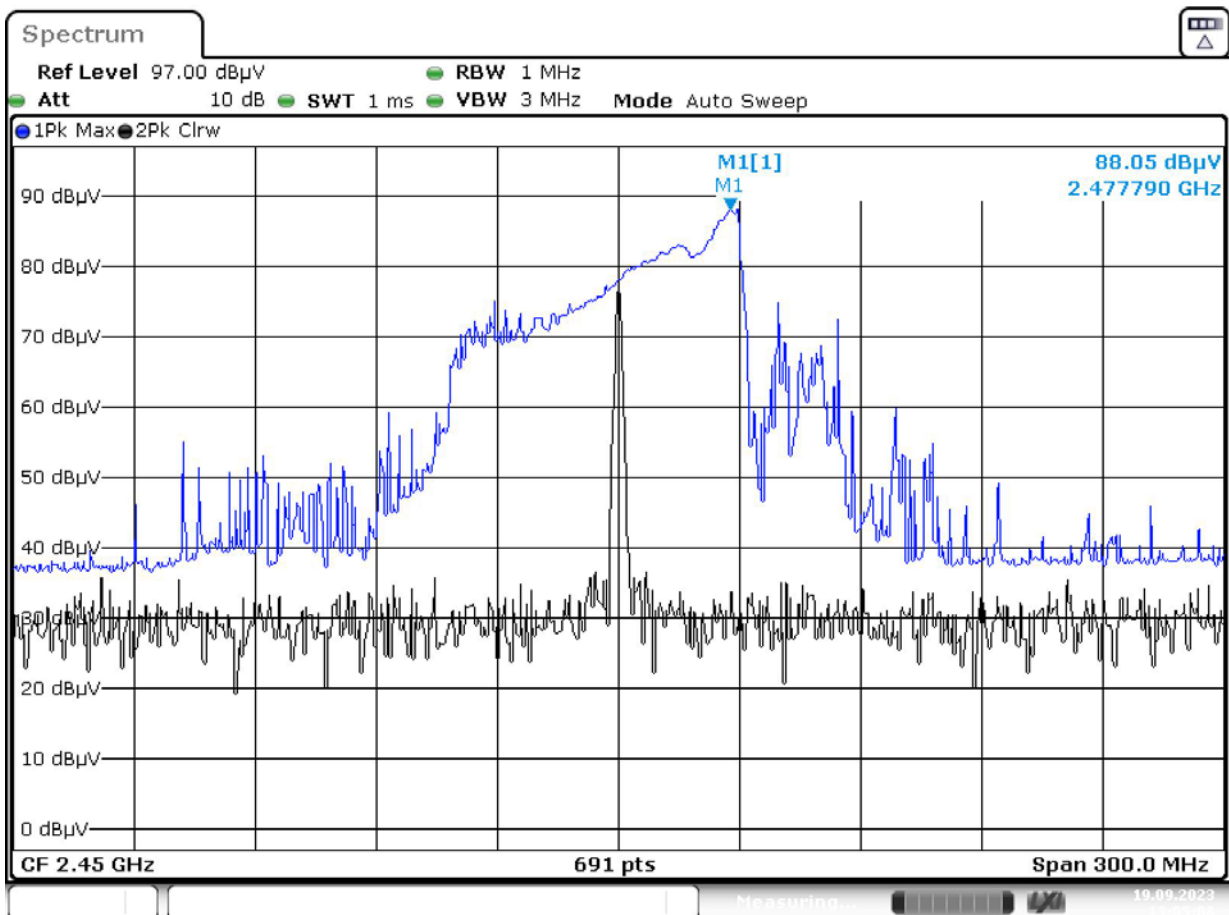
### 3) Operating Frequency

#### Variation in Operating Frequency with Time

Frequency at Start time (MHz)	Frequency at End time (MHz)
2477.79	2476.48

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

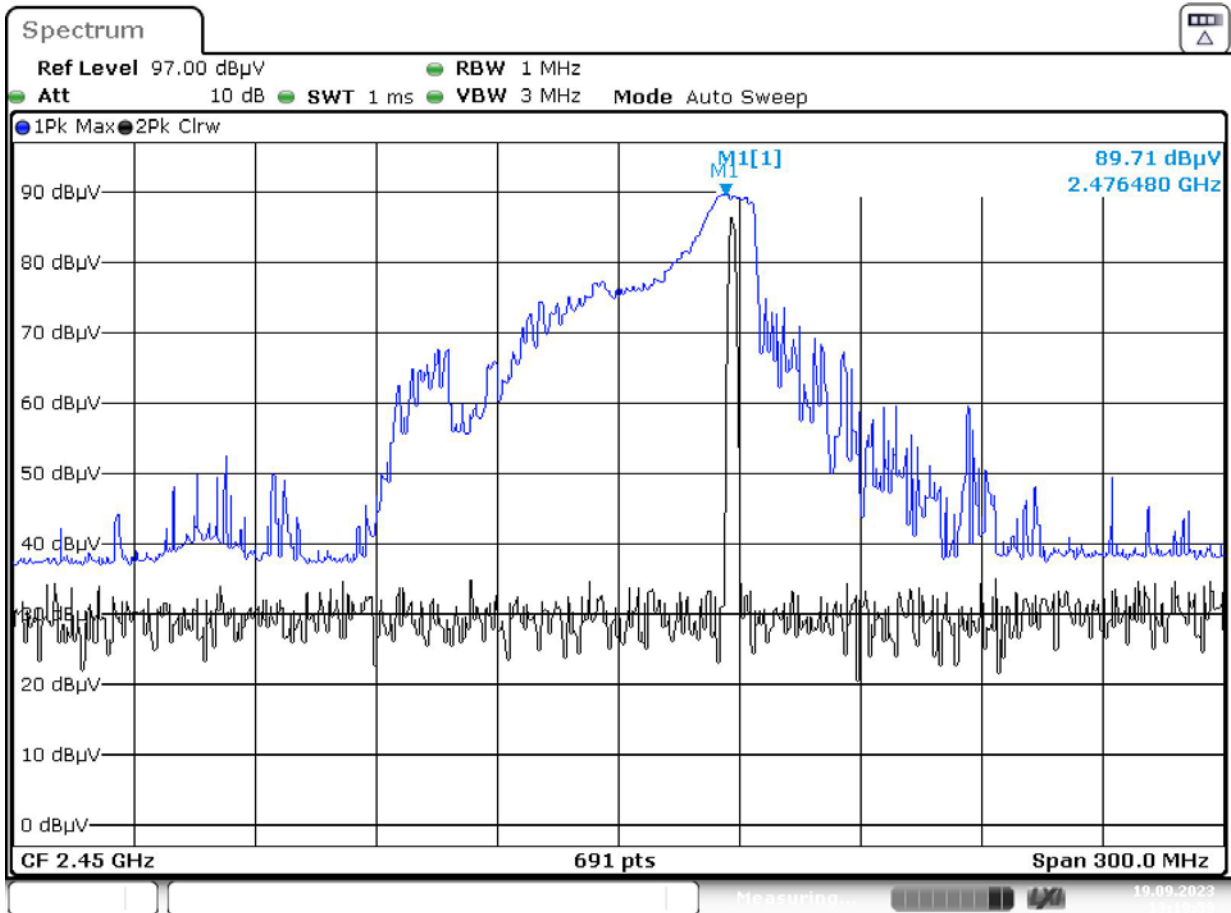
#### Start time:



ProjectNo.:CR230849087-EM Tester:coco Tian

Date: 19.SEP.2023 13:05:08

End time:



ProjectNo.:CR230849087-EM Tester:coco Tian

Date: 19.SEP.2023 13:19:59

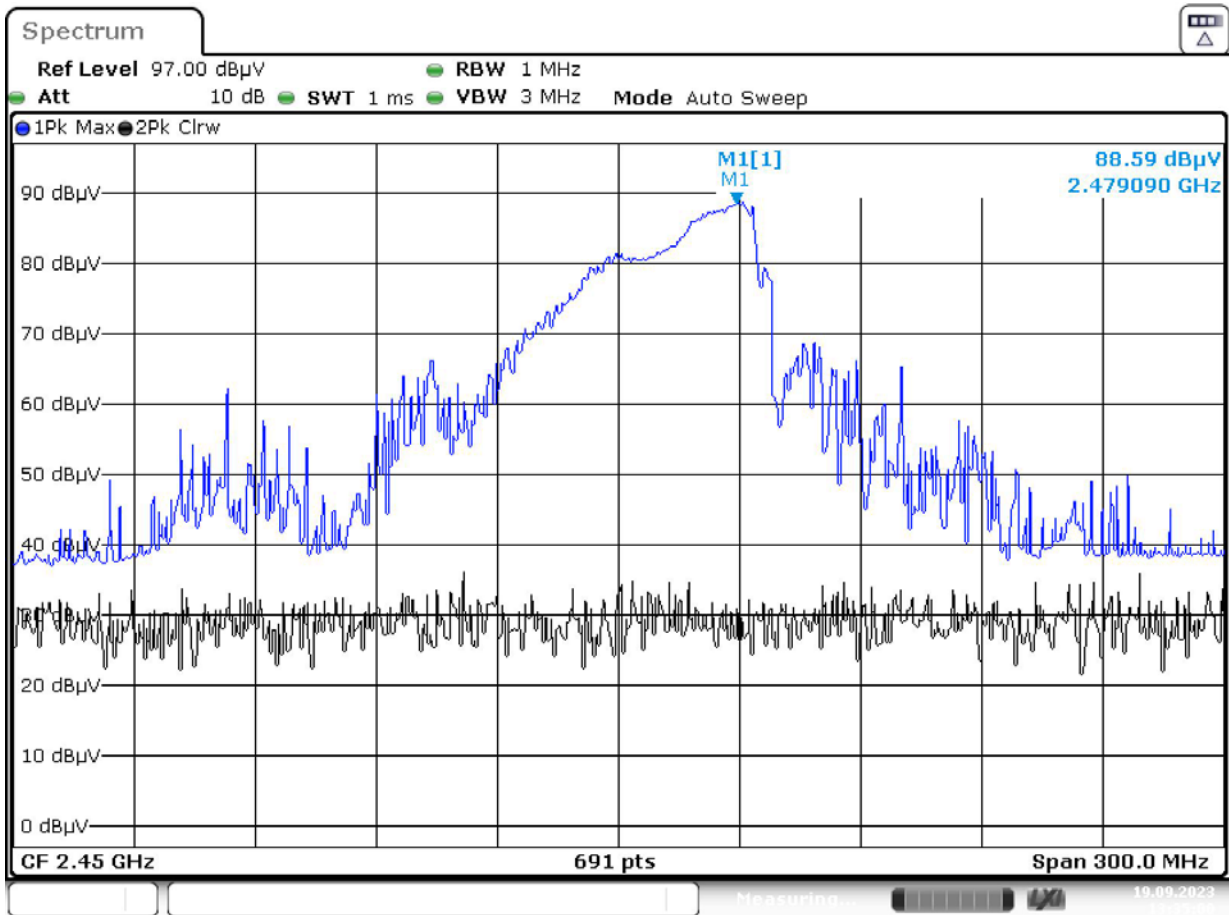
**Variation in Operating Frequency with Line Voltage**

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

(Low voltage) Frequency (MHz)	(High voltage) Frequency (MHz)
2479.09	2475.18

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

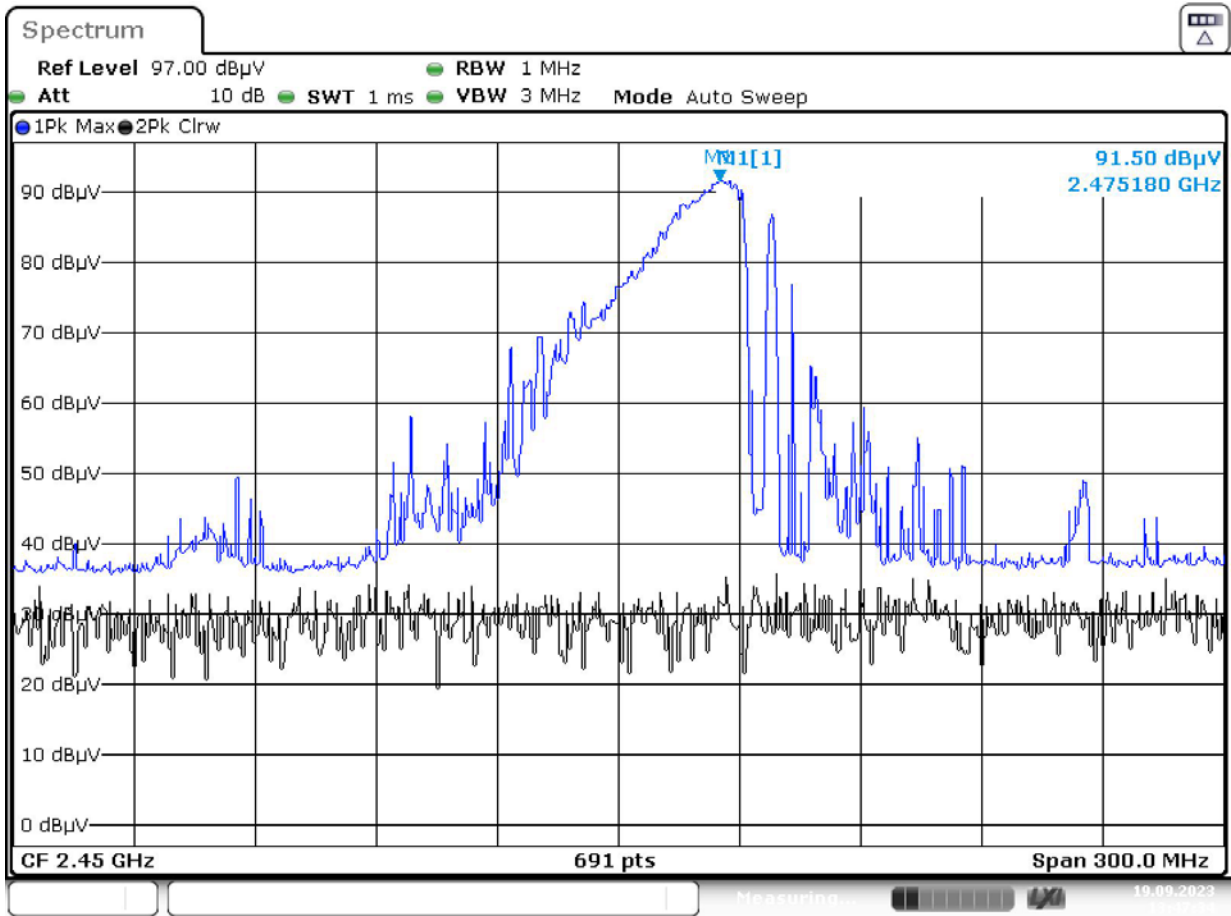
**Low Voltage:**



ProjectNo.:CR230849087-EM Tester:coco Tian

Date: 19.SEP.2023 13:35:00

**High Voltage:**



ProjectNo.:CR230849087-EM Tester:coco Tian  
Date: 19.SEP.2023 13:47:34

## **5. EUT PHOTOGRAPHS**

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Please refer to the attachment CR230849087-EXP EUT EXTERNAL PHOTOGRAPHS and CR230849087-INP EUT INTERNAL PHOTOGRAPHS

## **6. TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment CR230849087-00-TSP TEST SETUP PHOTOGRAPHS.

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