FCC Test Report

Report No.:	2405X55376EA-A1
Applicant:	Whirlpool Microwave Products Development Limited.
Address:	17th Fl, Elite Centre,22 Hung To Rd,Kwun Tong, Hong Kong
Product Name:	Household microwave oven
Product Model:	YWMML5530R
Multiple Models:	YKMML550
Trade Mark:	Whirlpool, KitchenAid
FCC ID:	PR4SMARTLPKAY
Standards:	FCC CFR Title 47 Part 18
Test Date:	2024-09-25 to 2024-11-11
Test Result:	Complied
Report Date:	2024-11-13

Reviewed by: **Approved by:**

Frank Yin
Project Engineer

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

NVLAP TESTING NVLAP LAB CODE 600335-0

ilac-MRA

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Announcement

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2. The results in this report apply only to the sample tested.

3. This sample tested is in compliance with the limits of the above regulation.

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5. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

Revision History

Version No.	Issued Date	Description
00	*2024-11-13*	*Original*

Contents

1 General Information

1.1 Client Information

Applicant:	Whirlpool Microwave Products Development Limited.
Address:	17th Fl, Elite Centre,22 Hung To Rd,Kwun Tong, Hong Kong
Manufacturer:	Whirlpool Microwave Products Development Limited.
Address:	17th Fl, Elite Centre,22 Hung To Rd,Kwun Tong, Hong Kong

1.2 Product Description of EUT

The EUT is Household microwave oven operates on 2450MHz ISM frequency Band.

Sample Serial Number	2RT6-1, 2RT6-2 (assigned by WATC)
Sample Received Date	2024-09-18
Sample Status	Good Condition
Operating Frequency Range	2450MHz±50.0 MHz
Power Supply	AC 120V/60Hz
Microwave Rated Input Power#	1500W
Microwave Rated Output Power#	900W
Modification	Sample No Modification by the test lab

1.3 Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s)

1.4 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Radiated emission	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Frequency Error		150Hz

Note 1: 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.

Note 2: The Decision Rule is based on simple acceptance with ISO Guide 98-4:2012 Clause 8.2 (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

1.5 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

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. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.6 Test Methodology

FCC CFR 47 Part 18

FCC OST MP-5-1986

2 Description of Measurement

2.1 Test Configuration

Test Mode:	
Microwave	The EUT was operate at the maximum microwave output power, according to FCC OST MP-5-1986 section 4.1, a quantity of water in a beaker was put in the oven cooking cavity during test

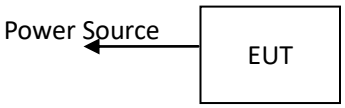
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
Xiangbo	Glass Beaker	unknown	unknown

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
Whirlpool	AC Power Cable	0.9	Power Source	EUT

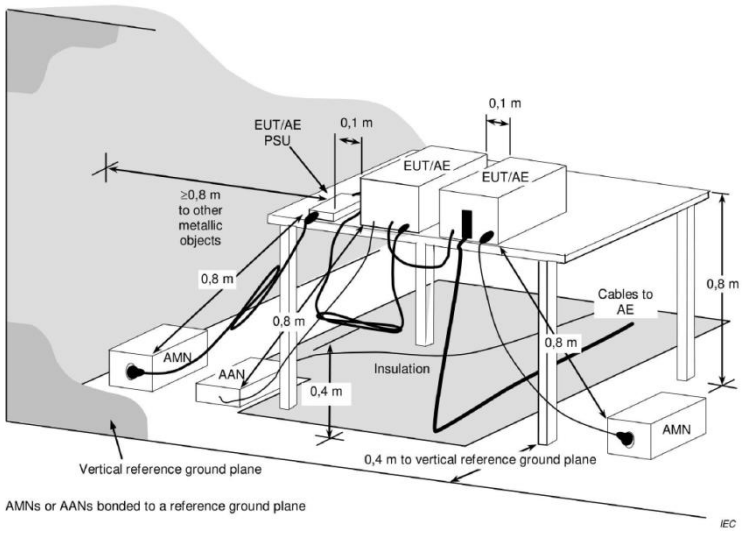
2.4 Block Diagram of Connection between EUT and AE



Note: for reference only, the actual connection setup used for testing please refer to the test photos.

2.5 Test Setup

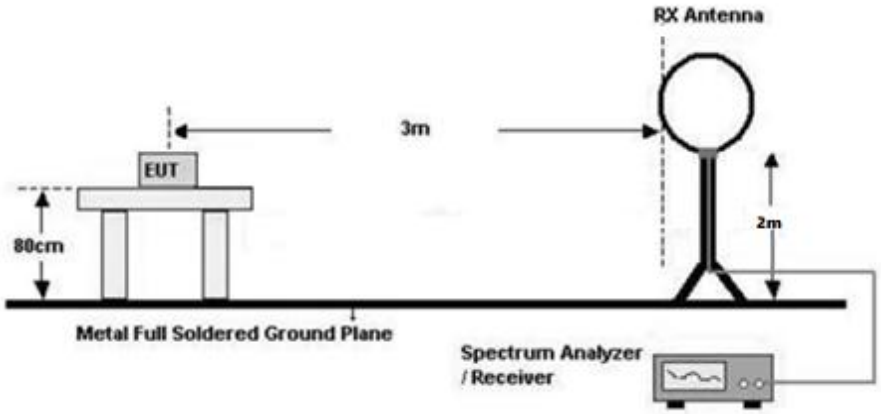
1) Conducted emission measurement:



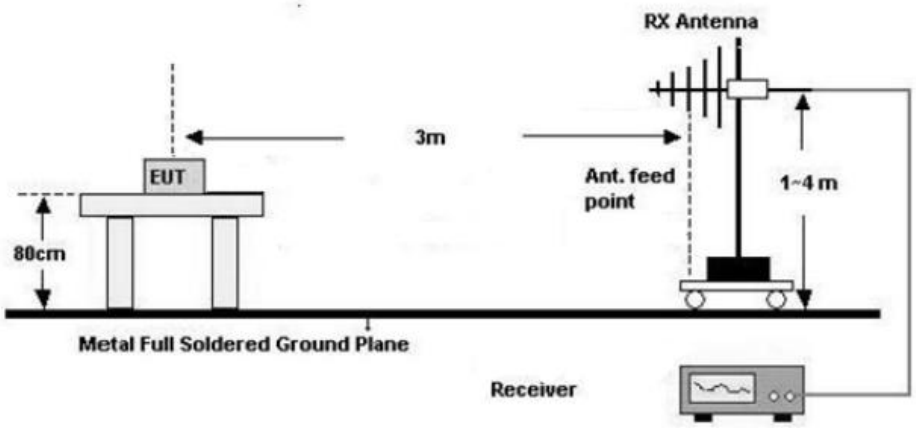
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

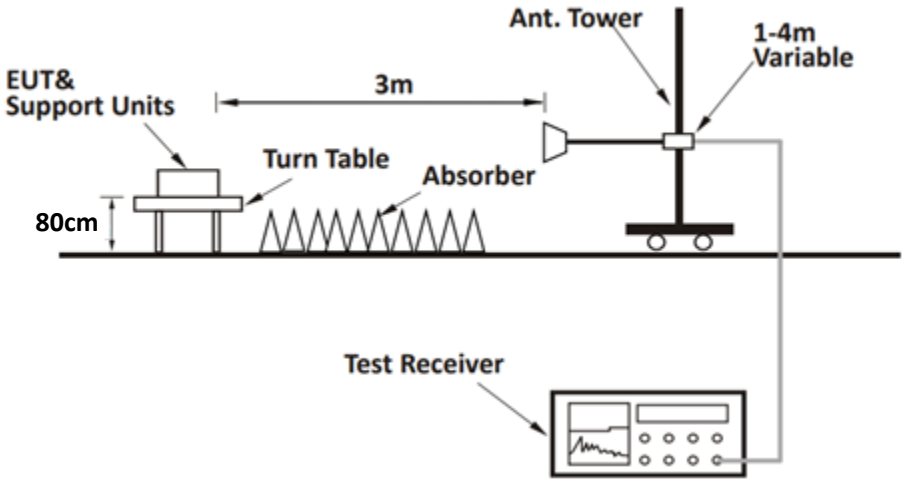
Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)



Above 1GHz(3m FAC)



2.6 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference.
3. The receiver is set to 9kHz resolution bandwidth, final data was recorded in the Quasi-peak and average detection mode.
4. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For 9kHz-30MHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. Loop antenna was used, the antenna height set at around 2 meters. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360°.
3. The RBW/VBW of receiver is set to 300Hz/1kHz for 9kHz to 150kHz range, to 10kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
4. If the Peak emission complies with the average limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the average detection mode.
4. If the Peak emission complies with the average limit, then perform final measurement is optional.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

4. Measurements may be performed at a distance closer than that specified in the regulations, in this case the distance correct factor should apply to the result.
5. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured average emission, reduce the VBW to 10Hz.
6. If the Peak emission complies with the Average limit, then perform average measurement is optional.

2.7 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	FCC OST MP-5-1986 Section 7
Radiated emission	FCC OST MP-5-1986 Section 5
Operating frequencies	FCC OST MP-5-1986 Section 4.5
Power Output Measurement	FCC OST MP-5-1986 Section 4.3
Radio frequency exposure requirements	FCC OST MP-5-1986 Section 3.1

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Oulitong	Band Reject Filter	OBSF-2400-2483.5-50N	OE02103119	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.13	N/A	2024/8/7	2025/8/6
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
Operating frequencies					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
N/A	Coaxial Cable	N/A	NO.9	2024/6/4	2025/6/3
N/A	Coaxial Cable	N/A	NO.10	2024/6/4	2025/6/3
N/A	Coaxial Cable	N/A	NO.11	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
Power Output					
YOKOGAWA	Digital Power Meter	253503	25BW3075	2024/8/23	2025/8/22
Victor	Digital Thermometer	6801	100730669	2023/12/1	2024/11/30
Radio frequency exposure					
ETS	Microwave Survery Meter	1501	3640274	2023/10/11	2024/10/10

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
FCC §18.307	AC Line Conducted Emissions	Compliance
FCC §18.305	Radiated emission	Compliance
FCC §18.301 FCC OST MP-5 §3.2	Operating frequencies	Compliance
FCC OST MP-5 §4.3	Power Output Measurement	Reporting only
FCC §18.313, §2.1091; §1.1310	Radio frequency exposure requirements	Compliance

Note: This is a Class II Permissive Change test report. The applicant declared the difference between EUT and original device (Granted on 2024/07/31) as below:

1. Change the Magnetron's manufacture& Model number from LG/ LG_2M226 to Galanz/M24FC-310A
2. Change the transformer's manufacture&Model number from Qingdao Yunlu Energy Technology Co., Ltd./ YL-104AWHR-2 to Galanz/Type:GAL-1000U-2,06120XN-8,GCH2
3. Change the H.V. capacitor model from 0.95μF 2100VAC to 0.90μF 2100VAC
4. Add Multiple Models YKMML550

The microwave frequency, rated input& output power was not change

3.2 Limit

<table>
<tr><th>Test items</th><th>Limit</th></tr>
<tr><td>AC Line Conducted Emissions</td><td>
<table>
<tr><th rowspan="2">Frequency of emission (MHz)</th><th colspan="2">Conducted limit (dBµV)</th></tr>
<tr><th>Quasi-peak</th><th>Average</th></tr>
<tr><td>0.15–0.5</td><td>66 to 56 *</td><td>56 to 46 *</td></tr>
<tr><td>0.5–5</td><td>56</td><td>46</td></tr>
<tr><td>5–30</td><td>60</td><td>50</td></tr>
</table>
* Decreases with the logarithm of the frequency.
</td></tr>
<tr><td>Radiated emission</td><td>
<table>
<tr><th>Equipment</th><th>Operating frequency</th><th>RF Power generated by equipment (watts)</th><th>Field strength limit (uV/m)</th><th>Distance (meters)</th></tr>
<tr><td>Any type unless otherwise specified (miscellaneous)</td><td>Any ISM frequency</td><td>Below 500
500 or more</td><td>25
25 × SQRT(power/500)</td><td>300
[1]300</td></tr>
</table>
</td></tr>
<tr><td>Operating frequencies</td><td>§18.301
Within ISM frequency band 2400-2500MHz</td></tr>
<tr><td>Radio frequency exposure requirements</td><td>§1.1310
<table>
<tr><th>Frequency range (MHz)</th><th>Electric field strength (V/m)</th><th>Magnetic field strength (A/m)</th><th>Power density (mW/cm^2)</th><th>Averaging time (minutes)</th></tr>
<tr><td colspan="5">(ii) Limits for General Population/Uncontrolled Exposure</td></tr>
<tr><td>0.3–1.34</td><td>614</td><td>1.63</td><td>*(100)</td><td><30</td></tr>
<tr><td>1.34–30</td><td>824/f</td><td>2.19/f</td><td>*(180/f^2)</td><td><30</td></tr>
<tr><td>30–300</td><td>27.5</td><td>0.073</td><td>0.2</td><td><30</td></tr>
<tr><td>300–1,500</td><td></td><td></td><td>f/1500</td><td><30</td></tr>
<tr><td>1,500–100,000</td><td></td><td></td><td>1.0</td><td><30</td></tr>
</table>
f = frequency in MHz. * = Plane-wave equivalent power density.
</td></tr>
</table>

3.3 Operating frequencies

Test Date:	2024-09-25	Test By:	Bard Huang
Environment condition:	Temperature: 23.5°C; Relative Humidity:67%; ATM Pressure: 100.4kPa		

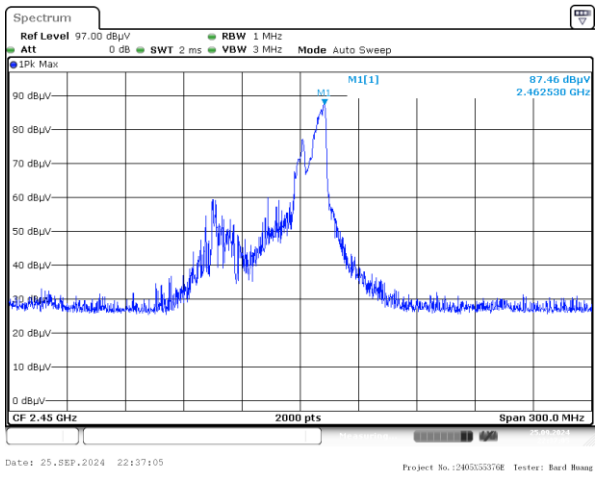
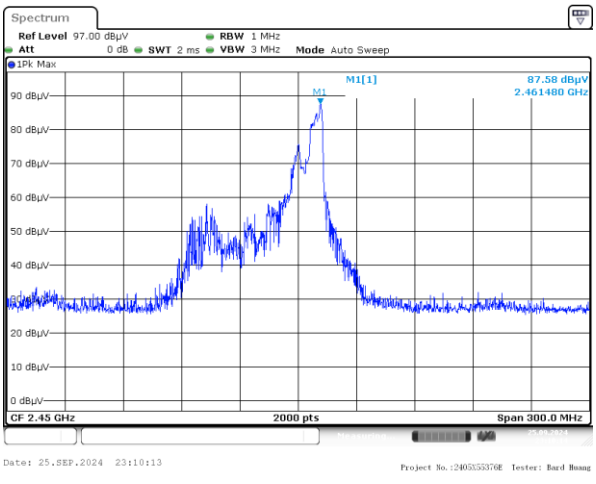
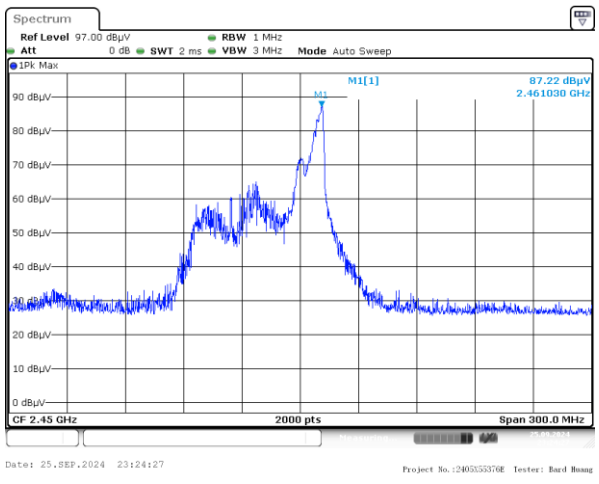
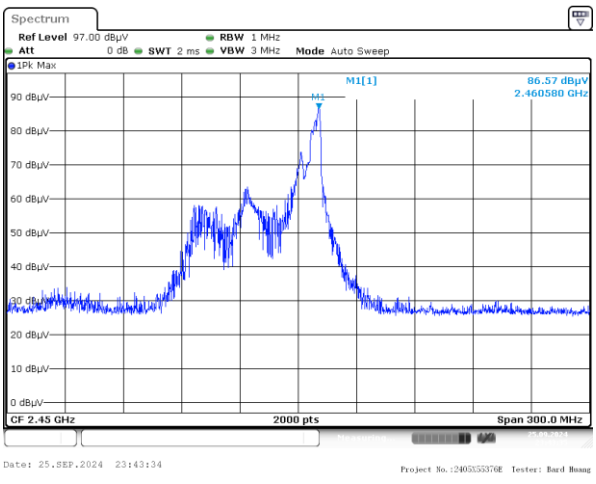
Variation in Operating Frequency with Time

Frequency at Start time(MHz)	Frequency at End time(MHz)	Limit(MHz)
2462.530	2461.480	Within 2400~2500

Variation in Operating Frequency with Line Voltage

Frequency at 80% of nominal voltage(MHz)	Frequency at 125% of nominal voltage(MHz)	Limit(MHz)
2461.030	2460.580	Within 2400~2500

Test Plot:

Start time	End time
	
80% of nominal voltage	**125% of nominal voltage**
	

3.4 Power Output Measurement

Test Date:	2024-09-25	Test By:	Lirou Li
Environment condition:	Temperature: 23.2°C; Relative Humidity:66%; ATM Pressure: 101.2kPa		

Power Input:

Input Voltage(V_{AC})	Input Current(A)	Input Power(W)	Rated Input Power(W)
113.5	12.9	1464.2	1500

Note:

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

Power Output:

Quantity of Water (ml)	Mass of the container (g)	Ambient temperature (℃)	Initial temperature (℃)	Final temperature (℃)	Heating time (s)	Power output (W)
1000	487	23.2	23.7	35.4	60	871

Formula:

$$P = \frac{4{,}187 \cdot m_w (T_2 - T_1) + 0{,}55 \cdot m_c (T_2 - T_0)}{t}$$

Note:

P is the microwave power output(W)

m_w is the mass of the water(g)

m_c is the mass of the container(g)

T_0 is the ambient temperature(℃)

T_1 is the initial temperature of water(℃)

T_2 is the final temperature of water(℃)

t is the water heating time(s), excluding the magnetron filament heating-up time

According to FCC § 18.305, the field strength limit of the outside band emissions is:

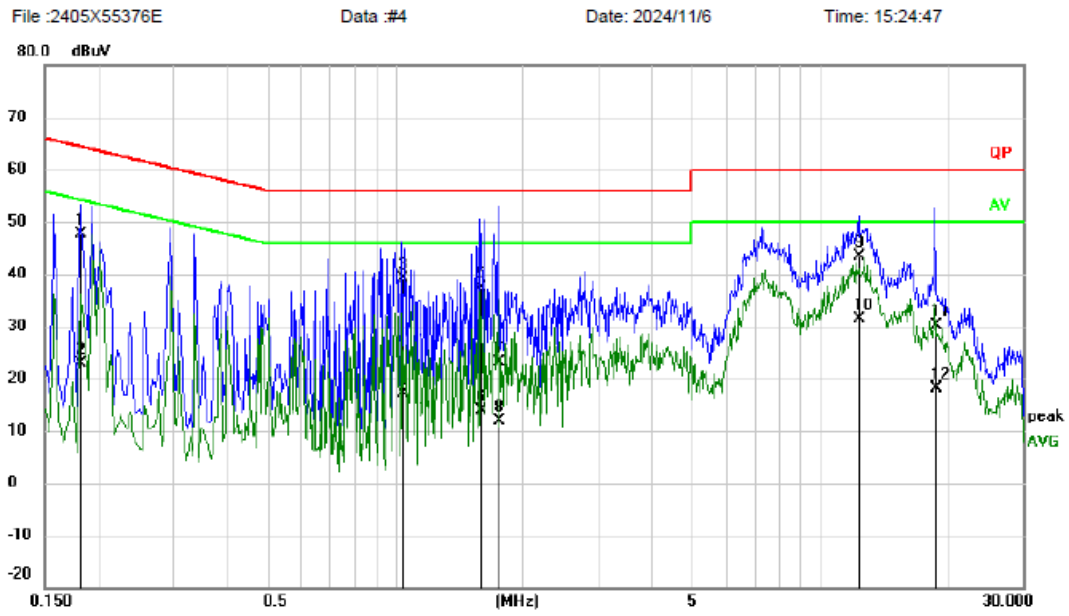
Limit=20lg(25*SQRT(Power/500))+20lg(300/3)

=20lg(25*SQRT(871/500))+20lg(300/3)

=70.4dBuV/m @3m distance

3.5 AC Line Conducted Emissions Test Data

Test Date:	2024-11-06	Test By:	Lirou Li
Environment condition:	Temperature: 23.2°C; Relative Humidity:49%; ATM Pressure: 100.8kPa		



Limit: QP
Mode:microwave
Note:

Phase: L1
Power: AC 120V/60Hz

Temperature: 23.2 ℃
Humidity: 49 %
Air Pressure: 1008 hpa

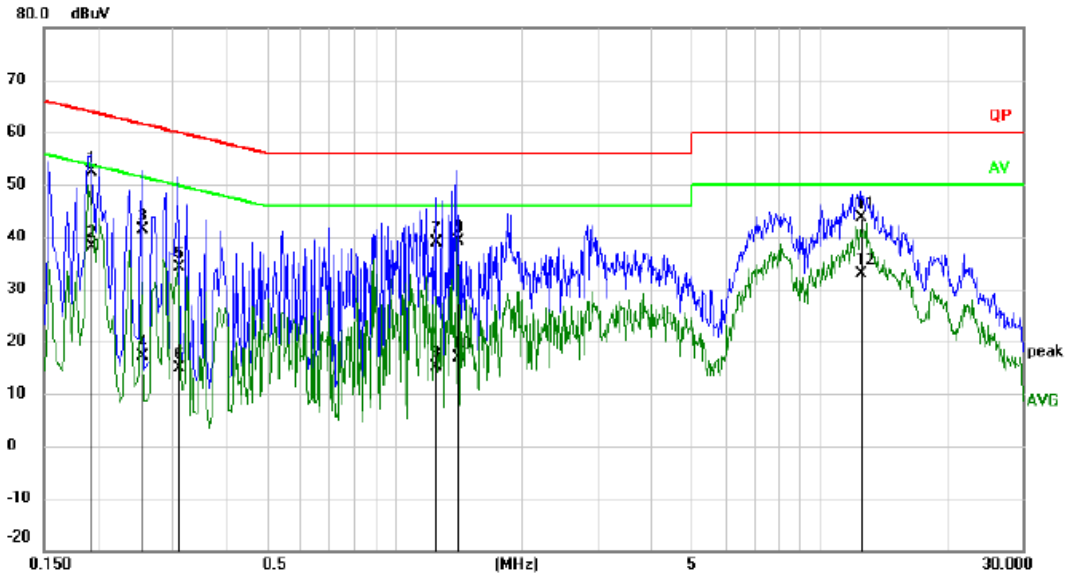
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1819	37.36	10.35	47.71	64.40	-16.69	QP	
2		0.1819	12.55	10.35	22.90	54.40	-31.50	AVG	
3		1.0420	28.49	10.66	39.15	56.00	-16.85	QP	
4		1.0420	6.56	10.66	17.22	46.00	-28.78	AVG	
5		1.5859	26.72	10.74	37.46	56.00	-18.54	QP	
6		1.5859	3.23	10.74	13.97	46.00	-32.03	AVG	
7		1.7460	12.29	10.75	23.04	56.00	-32.96	QP	
8		1.7460	1.15	10.75	11.90	46.00	-34.10	AVG	
9	*	12.3258	32.97	10.36	43.33	60.00	-16.67	QP	
10		12.3258	21.01	10.36	31.37	50.00	-18.63	AVG	
11		18.6419	19.76	10.31	30.07	60.00	-29.93	QP	
12		18.6419	7.87	10.31	18.18	50.00	-31.82	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Lirou

Conducted Emission Measurement

File :2405X55376E Data :#3 Date: 2024/11/6 Time: 15:16:56



Limit: QP Phase: N Temperature: 23.2 ℃

Mode:microwave Power: AC 120V/60Hz Humidity: 49 %

Note: Air Pressure: 1008 hpa

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1940	42.18	10.30	52.48	63.86	-11.38	QP	
2		0.1940	27.75	10.30	38.05	53.86	-15.81	AVG	
3		0.2540	31.11	10.37	41.48	61.63	-20.15	QP	
4		0.2540	6.82	10.37	17.19	51.63	-34.44	AVG	
5		0.3100	23.68	10.41	34.09	59.97	-25.88	QP	
6		0.3100	4.45	10.41	14.86	49.97	-35.11	AVG	
7		1.2500	28.29	10.59	38.88	56.00	-17.12	QP	
8		1.2500	4.60	10.59	15.19	46.00	-30.81	AVG	
9		1.4060	28.50	10.61	39.11	56.00	-16.89	QP	
10		1.4060	6.23	10.61	16.84	46.00	-29.16	AVG	
11		12.4540	33.27	10.41	43.68	60.00	-16.32	QP	
12		12.4540	22.49	10.41	32.90	50.00	-17.10	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou

Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

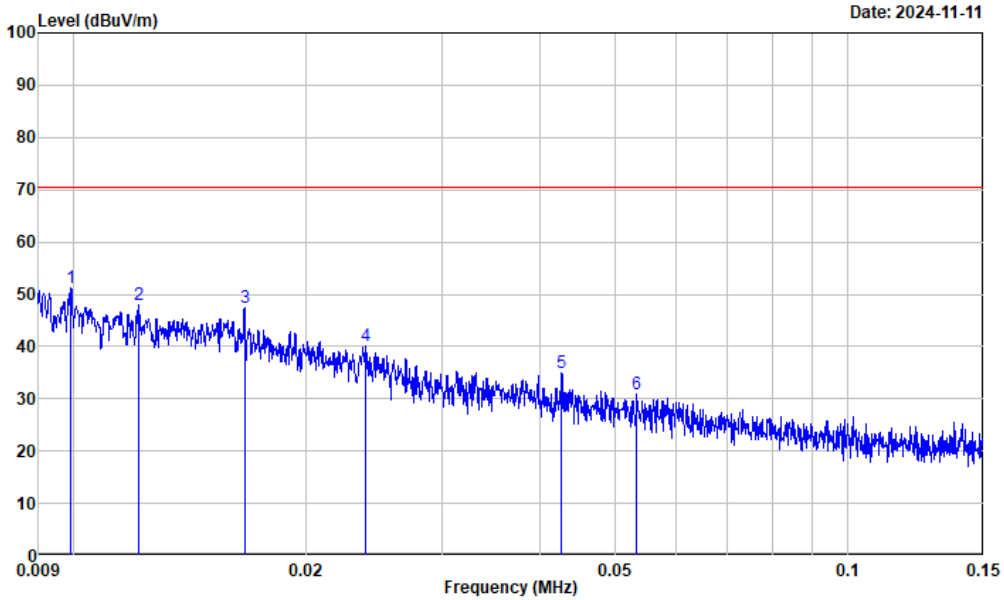
Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over Limit = Measurement – Limit

3.6 Radiated emission Test Data

9 kHz-30MHz:

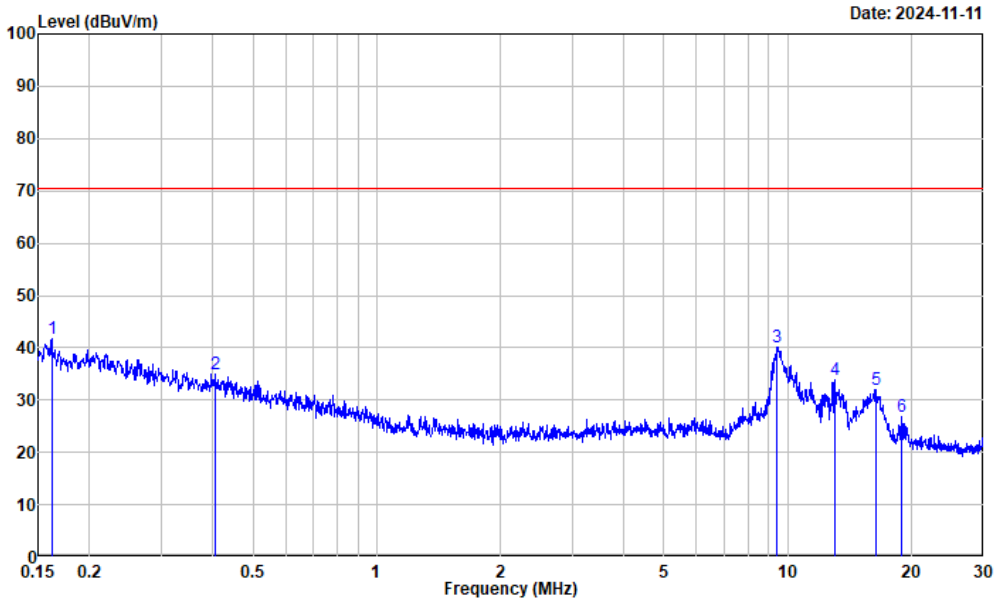
Test Date:	2024-11-11	**Test By:**	Luke Li
Environment condition:	Temperature: 24.0°C; Relative Humidity: 47%; ATM Pressure: 100.9kPa		



Project No. : 2405X55376E-EMA1
Test Mode : Microwave
Test Voltage : AC 120V/60Hz
Environment : 24.0℃/47%R.H./100.9kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : maximum microwave output power

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.010	13.89	37.26	51.15	70.40	-19.25	Peak
2	0.012	12.04	35.85	47.89	70.40	-22.51	Peak
3	0.017	14.37	32.99	47.36	70.40	-23.04	Peak
4	0.024	11.72	28.42	40.14	70.40	-30.26	Peak
5	0.043	13.15	21.90	35.05	70.40	-35.35	Peak
6	0.053	11.05	19.93	30.98	70.40	-39.42	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit



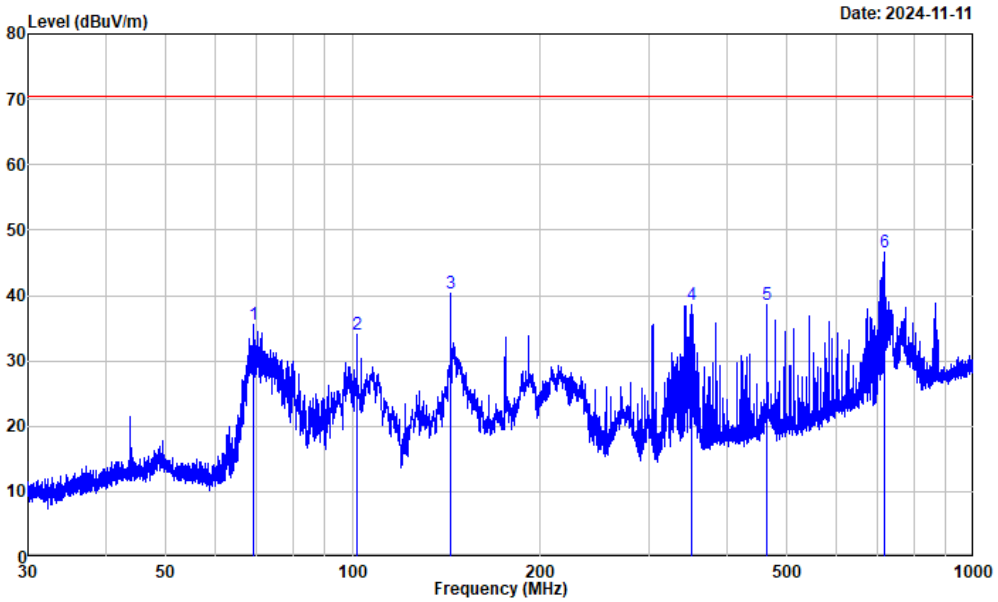
Project No. : 2405X55376E-EMA1
Test Mode : Microwave
Test Voltage : AC 120V/60Hz
Environment : 24.0℃/47%R.H./100.9kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : maximum microwave output power

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.162	28.43	13.21	41.64	70.40	-28.76	Peak
2	0.405	27.69	7.34	35.03	70.40	-35.37	Peak
3	9.396	43.72	-3.65	40.07	70.40	-30.33	Peak
4	13.052	37.46	-3.53	33.93	70.40	-36.47	Peak
5	16.394	35.57	-3.47	32.10	70.40	-38.30	Peak
6	18.966	30.15	-3.22	26.93	70.40	-43.47	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit

30MHz-1GHz:

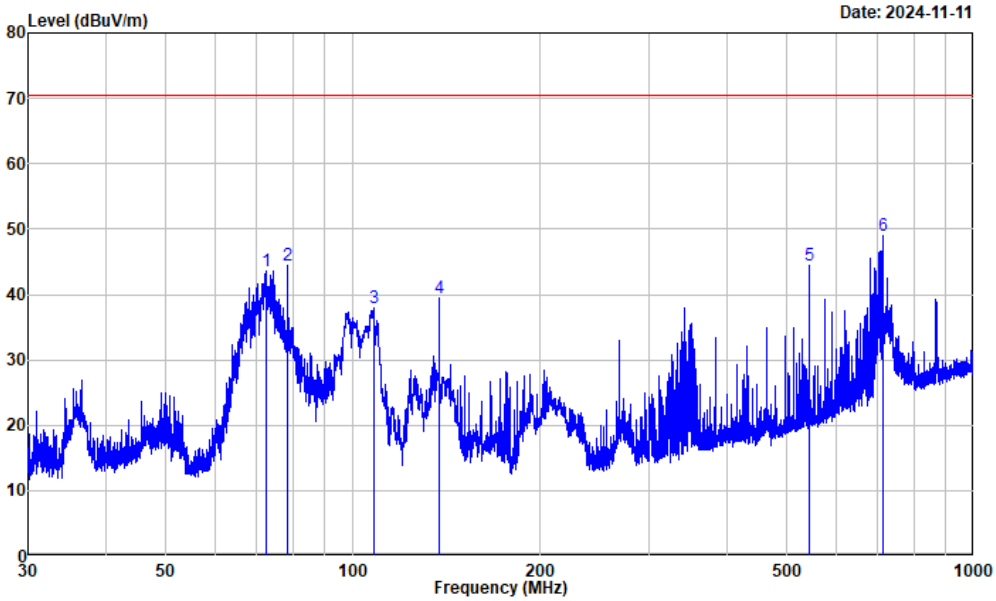
Test Date:	2024-11-11	Test By:	Luke Li
Environment condition:	Temperature: 24.0°C; Relative Humidity: 47%; ATM Pressure: 100.9kPa		



Project No. : 2405X55376E-EMA1
Test Mode : Microwave
Test Voltage : AC 120V/60Hz
Environment : 24.0℃/47%R.H./100.9kPa
Tested by : Luke Li
Polarization : horizontal
Remark : maximum microwave output power

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	69.387	51.20	-15.70	35.50	70.40	-34.90	Peak
2	101.377	47.72	-13.77	33.95	70.40	-36.45	Peak
3	144.019	57.42	-17.13	40.29	70.40	-30.11	Peak
4	350.477	47.25	-8.59	38.66	70.40	-31.74	Peak
5	463.970	45.28	-6.79	38.49	70.40	-31.91	Peak
6	716.682	48.28	-1.62	46.66	70.40	-23.74	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit



Project No. : 2405X55376E-EMA1
Test Mode : Microwave
Test Voltage : AC 120V/60Hz
Environment : 24.0℃/47%R.H./100.9kPa
Tested by : Luke Li
Polarization : vertical
Remark : maximum microwave output power

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	72.655	60.61	-16.95	43.66	70.40	-26.74	Peak
2	78.585	62.27	-17.89	44.38	70.40	-26.02	Peak
3	107.982	51.54	-13.51	38.03	70.40	-32.37	Peak
4	137.903	56.74	-17.19	39.55	70.40	-30.85	Peak
5	543.989	49.51	-4.97	44.54	70.40	-25.86	Peak
6	713.235	50.64	-1.71	48.93	70.40	-21.47	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit

Above 1GHz:

Test Date:	2024-09-25	**Test By:**	Bard Huang
Environment condition:	Temperature: 23.5°C; Relative Humidity: 67%; ATM Pressure: 100.4kPa		

Frequency (MHz)	**Reading level (dBμV)**	**Polar**	**Corrected Factor (dB/m)**	**Corrected Amplitude (dBμV/m)**	**Limit (dBμV/m)**	**Margin (dB)**	**Remark**
2309.000	38.86	horizontal	-3.34	35.52	70.40	-34.88	Average
2527.000	40.42	horizontal	-2.91	37.51	70.40	-32.89	Average
9805.000	40.28	horizontal	-0.93	39.35	70.40	-31.05	Average
2338.000	38.97	vertical	-3.26	35.71	70.40	-34.69	Average
2533.000	40.25	vertical	-2.91	37.34	70.40	-33.06	Average
9644.000	40.72	vertical	-1.00	39.72	70.40	-30.68	Average
Second and third harmonic							
700ml Water							
4925.000	49.08	horizontal	-2.19	46.89	70.40	-23.51	Average
7391.000	42.68	horizontal	-1.91	40.77	70.40	-29.63	Average
4929.000	52.21	vertical	-2.18	50.03	70.40	-20.37	Average
7396.000	42.57	vertical	-1.90	40.67	70.40	-29.73	Average
300ml Water							
4926.000	49.28	horizontal	-2.19	47.09	70.40	-23.31	Average
7388.000	40.49	horizontal	-1.93	38.56	70.40	-31.84	Average
4927.000	51.78	vertical	-2.19	49.59	70.40	-20.81	Average
7392.000	40.31	vertical	-1.91	38.40	70.40	-32.00	Average

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

3.7 Radio frequency exposure

Test Date:	2024-09-25	Test By:	Lirou Li
Environment condition:	Temperature: 23.2°C; Relative Humidity:66%; ATM Pressure: 101.2kPa		

Radiation leakage was measured in the as-received condition with the oven door closed using a microwave leakage meter.
A 275mL 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 **0.15**mW/cm^2 observed at any point 5 cm or more from the external surface of the oven.

A maximum of 1.0mW/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.

4 Test Setup Photo

Please refer to the attachment 2405X55376E-A1 Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2405X55376E-A1 External photo and 2405X55376E-A1 Internal photo.

---End of Report---