

FCC 47 CFR PART 18

TEST REPORT

For

Microwave oven

MODEL NUMBER: D11034ALV-SUB(L2), KMCS3020TBL, KMCS3020TPS**,
KMCS3020TWH****

REPORT NUMBER: 4792038556-2-EMC-1

ISSUE DATE: December 20, 2025

FCC ID: UHW11034007

Prepared for

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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	December 20, 2025	Initial Issue	

Summary of Test Results

Emission			
Standard	Test Item	Limit	Result
FCC 47 CFR PART 18	Conducted Emissions	FCC Part 18.307(b)	Pass (NOTE 1)
	Radiated Emissions (30MHz~1000MHz)	FCC Part 18.305(b)	Pass
	Radiated Emissions (1GHz~25GHz)	FCC Part 18.305(b)	Pass (NOTE 2)
	Operating Frequency	FCC Part 18.301	Pass
	Input Power	FCC / OST MP-5 (1986) Clause 4.3	Pass
	Output Power	FCC / OST MP-5 (1986) Clause 4.3	Pass
	Radiation Hazard	FCC / OST MP-5 (1986) Clause 3.1	Pass

Note:

1. This test is only applicable for devices which can be charged or powered by AC main power cable.
- 2.

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.
Above 1,000	do	Tenth harmonic or highest detectable emission.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <FCC 47 CFR PART 18> when <Simple Acceptance> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS.....	5
2. TEST METHODOLOGY.....	6
3. FACILITIES AND ACCREDITATION.....	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY</i>	<i>7</i>
5. EQUIPMENT UNDER TEST	8
5.1. <i>DESCRIPTION OF EUT</i>	<i>8</i>
5.2. <i>TEST MODE.....</i>	<i>8</i>
5.3. <i>EUT ACCESSORY</i>	<i>8</i>
5.4. <i>LOAD FOR MICROWAVE OVENS.....</i>	<i>9</i>
5.5. <i>SUPPORT UNITS FOR SYSTEM TEST</i>	<i>9</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED.....	10
7. EMISSION TEST	12
7.1. <i>CONDUCTED EMISSIONS</i>	<i>12</i>
7.2. <i>RADIATED EMISSIONS (30MHZ~1000MHZ).....</i>	<i>16</i>
7.3. <i>RADIATED EMISSIONS (1GHZ~25GHZ)</i>	<i>21</i>
7.4. <i>OPERATING FREQUENCY.....</i>	<i>32</i>
7.5. <i>INPUT POWER.....</i>	<i>35</i>
7.6. <i>OUTPUT POWER.....</i>	<i>36</i>
7.7. <i>RADIATION HAZARD.....</i>	<i>38</i>

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangdong Galanz Enterprises Co., Ltd.
Address: No.25 South Ronggui Avenue, Ronggui Street, Shunde District,
Foshan City, Guangdong Province, China

Manufacturer Information

Company Name: Guangdong Galanz Enterprises Co., Ltd.
Address: No.25 South Ronggui Avenue, Ronggui Street, Shunde District,
Foshan City, Guangdong Province, China

EUT Information

EUT Name: Microwave oven
Model: D11034ALV-SUB(L2), KMCS3020TBL**, KMCS3020TPS**,
KMCS3020TWH**
Brand: Galanz, KitchenAid
Sample Received Date: December 1, 2025
Sample Status: Normal
Sample ID: 9179727
Date of Tested: December 1, 2025 to December 20, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 18	Pass

Prepared By:



Wite Chen

Engineer Project Associate

Checked By:



Kebo Zhang

Operations Leader

Approved By:



Stephen Guo

Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR PART 18

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
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Note:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted Emissions	0.009 MHz - 0.15 MHz	2	4
	0.15MHz - 30MHz	2	3.63
Radiated Emissions (30MHz~1000MHz)	9kHz - 30MHz	2	2.2
	30MHz -1GHz	2	4.13
Radiated Emissions (1GHz~25GHz)	1GHz - 18GHz	2	5.64
	18GHz - 26GHz	2	5.23
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			
Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of U _{lab} (in dB) for the measurement instrumentation actually used for the measurements.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Microwave oven
EUT description	The product is a microwave oven, Belongs to ISM equipment type
Magnetron Type	Galanz M24FB-710AB
Model	D11034ALV-SUB(L2)
Series Models	KMCS3020TBL**, KMCS3020TPS**, KMCS3020TWH**
Model differences	**** represents a variable composed of two digits. It may consist of one or two characters drawn from the alphabet A to Z, or numerical digits ranging from 0 to 9, utilized to signify variations in appearance, hue, and model for diverse commercial purposes.
Operating Frequency	2450MHz
Rated Input Power (Microwave)	1350W
Rated Output Power (Microwave)	1100W
AC	120V~, 60Hz, Single Phase

5.2. TEST MODE

Test Mode	Description
M01	Maximum power + 1100mL water load + beaker located in the center of the oven
M02	Maximum power + 770mL water load + beaker located in the center of the oven
M03	Maximum power + 770mL water load + beaker located in the right front corner of the oven
M04	Maximum power + 330mL water load + beaker located in the center of the oven
M05	Maximum power + 330mL water load + beaker located in the right front corner of the oven

5.3. EUT ACCESSORY

Cable	
Description:	AC Plug Cable
Cable Type:	Unshielded without ferrite
Length:	1 Meter

5.4. LOAD FOR MICROWAVE OVENS

For all measurements the energy developed by the oven is absorbed by a dummy load consisting of a quantity of tap water in a beaker. A polypropylene beaker or any other low-loss material shall be used as the container. If the oven is provided with a shelf or other utensil support, test shall be made with this support in its initial normal position. For ovens rated at 1000 watts or less power output, the beaker shall contain quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000 watts output, each quantity shall be increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts. Additional beakers are 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.
- Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven

5.5. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr./Brand	Model/Type No.	Specification	Note
1	Glass Beaker	N/A	N/A	1000ML	UL Support

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	101961	Sep. 12, 2025	Sep. 11, 2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	101983	Sep. 12, 2025	Sep. 11, 2026
Test Software for Conducted Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Test Equipment of Radiated Emissions (30MHz~1000MHz)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jun. 28, 2024	Jun. 27, 2027
MXE EMI Receiver	KEYSIGHT	N9038A	MY56400036	Sep. 12, 2025	Sep. 11, 2026
Amplifier	HP	8447F	2944A03683	Sep. 12, 2025	Sep. 11, 2026
Test Software for Radiated Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Test Equipment of Radiated Emissions (1GHz~26GHz)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Measurement Receiver	ROHDE & SCHWARZ	ESR26	101377	Sep. 12, 2025	Sep. 11, 2026
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep. 12, 2025	Sep. 11, 2026
Horn Antenna	TDK	HRN-0118	130940	Dec. 12, 2024	Dec. 11, 2027
High Gain Horn Antenna	Schwarzbeck	BBHA-9170	697	Jun. 30, 2024	Jun. 29, 2027
Test Software for Radiated Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Test Equipment of Operating Frequency					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Measurement Receiver	ROHDE & SCHWARZ	ESR26	101377	Sep. 12, 2025	Sep. 11, 2026
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep. 12, 2025	Sep. 11, 2026
Horn Antenna	TDK	HRN-0118	130940	Dec. 12, 2024	Dec. 11, 2027
High Gain Horn Antenna	Schwarzbeck	BBHA-9170	697	Jun. 30, 2024	Jun. 29, 2027
Test Software for Radiated Emission	TS+	JS32-RE	N/A	N/A	N/A

Test Equipment of Input Power					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Signal Conditioning Unit	TESEQ	CCN 1000-1	1544A00611	Sep. 17, 2025	Sep. 16, 2026
5K VA AC Power Source	TESEQ	NSG 1007	1616A00637	Sep. 12, 2025	Sep. 11, 2026
Test software for H/F	TESEQ	Win2100 V4	V 4.12.7	N/A	N/A

Radiation Hazard					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Electric Field	LTLUTRON	EMF-819/EP-05H	I.508502	Dec. 31, 2024	Dec. 30, 2025

Output Power Measurement					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Probe Thermometer	Control Company	4242	150709653	Jun. 6, 2024	Jun. 5, 2026

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Sep.16, 2025	Sep.15, 2026
Barometer	Yiyi	Baro	N/A	Sep. 12, 2025	Sep. 11, 2026
Attenuator	Agilent	8495B	2814a12853	Sep. 12, 2025	Sep. 11, 2026

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

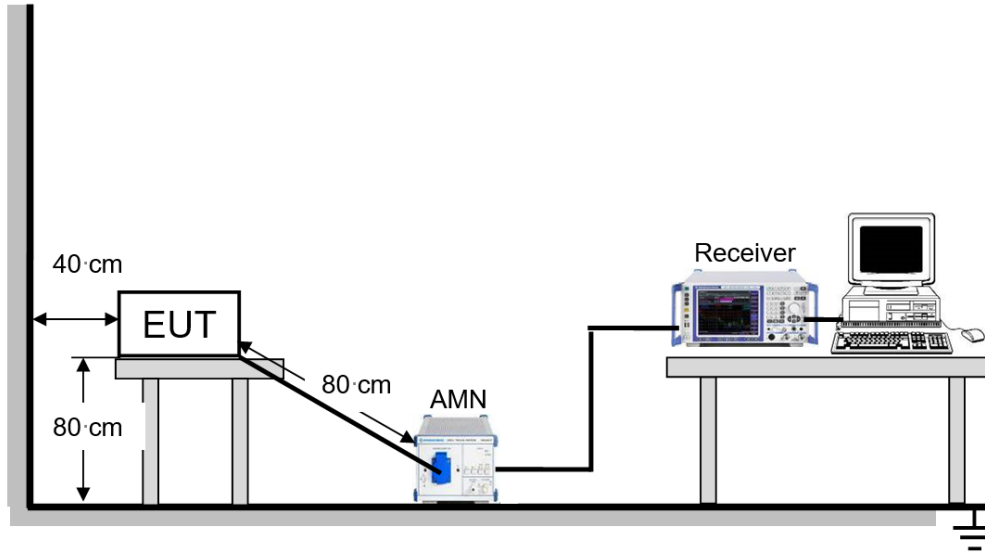
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note: *Decreases with the logarithm of the frequency.

TEST PROCEDURE

- 1) The testing follows the guideline in FCC / OST MP-5.
- 2) The EUT was placed on a 0.8m insulating material from the horizontal ground plane with EUT being connected to the power mains through a Line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 3) Excess I/O cables shall be bundled in the center. If bundling is not possible, bundling shall not exceed 30 to 40 cm in length.
- 4) Excess power cords shall be bundled in the center or shortened to appropriate length.
- 5) LISN at least 80 cm from nearest part of EUT.
- 6) For ovens rated at 1000 watts or less power output, the beaker shall contain quantities of water as listed in the following subparagraphs, For ovens rated at more than 1000 watts output, each quantity shall be increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts,
A 700 milliliters of water in the beaker located in the center of the oven.
- 7) Conducted emissions from the EUT measured in the frequency range between 0.15MHz and 30MHz using CISPR Quasi-Peak and average detector mode, Resolution bandwidth set 9kHz.

TEST SETUP



TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	50%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	December 6, 2025	Test By	Deacon Tan
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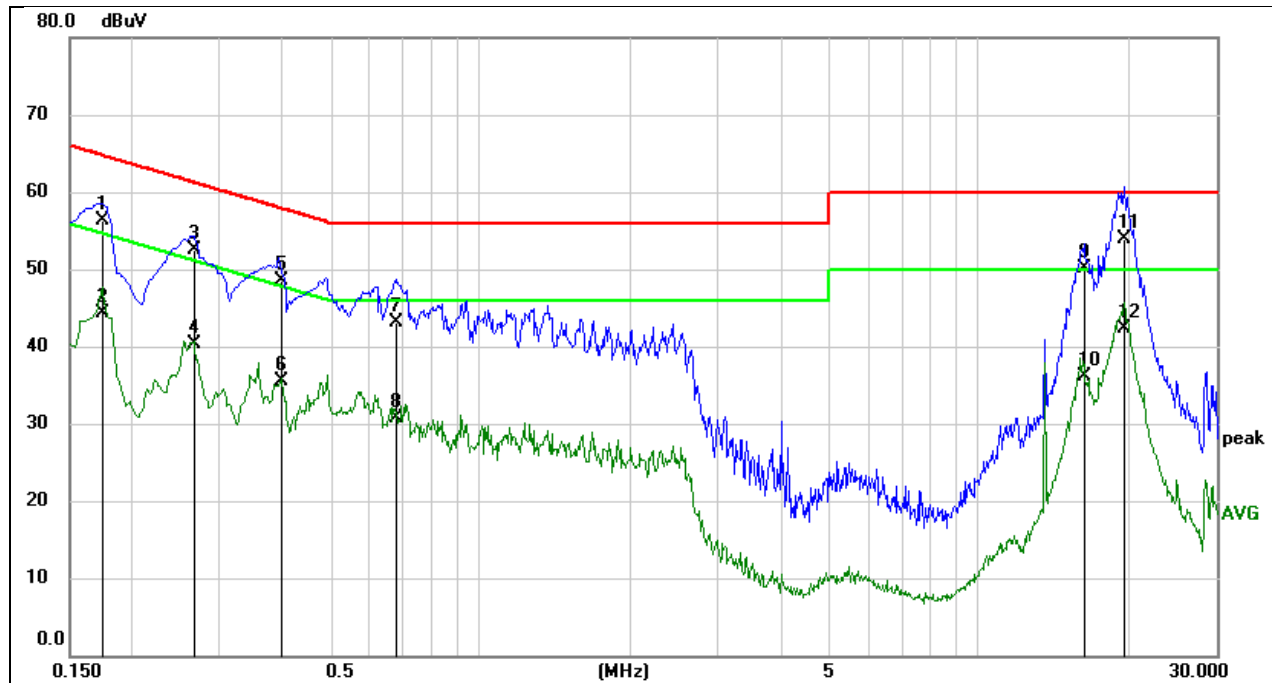
TEST MODE

Pre-test Mode:	M01 ~ M05
Final Test Mode:	M02

Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS

Test Mode:	M02	Line:	Line
Test Voltage:	AC 120V_60Hz		



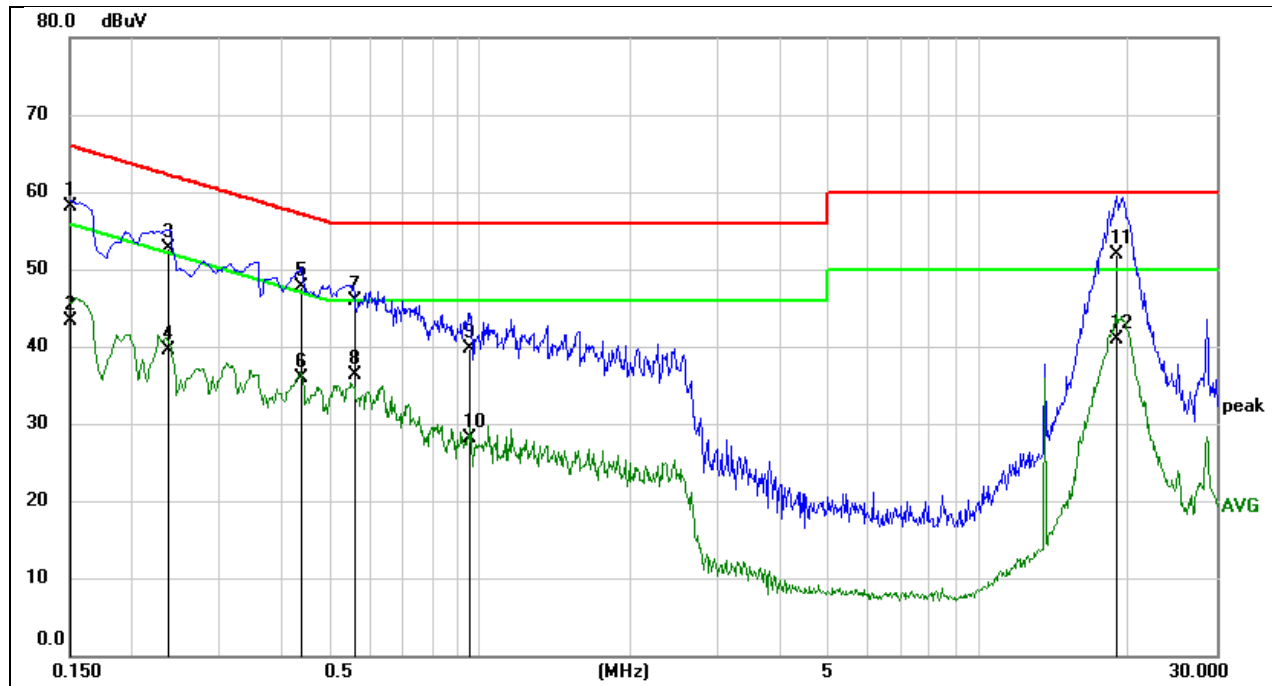
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1744	46.60	9.69	56.29	64.75	-8.46	QP
2	0.1744	34.60	9.69	44.29	54.75	-10.46	AVG
3	0.2685	42.87	9.64	52.51	61.16	-8.65	QP
4	0.2685	30.57	9.64	40.21	51.16	-10.95	AVG
5	0.3985	38.86	9.64	48.50	57.88	-9.38	QP
6	0.3985	25.82	9.64	35.46	47.88	-12.42	AVG
7	0.6790	33.53	9.63	43.16	56.00	-12.84	QP
8	0.6790	20.98	9.63	30.61	46.00	-15.39	AVG
9	16.2815	40.33	9.74	50.07	60.00	-9.93	QP
10	16.2815	26.45	9.74	36.19	50.00	-13.81	AVG
11	19.4899	44.11	9.74	53.85	60.00	-6.15	QP
12	19.4899	32.60	9.74	42.34	50.00	-7.66	AVG

Remark:

Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

Margin = Result - Limit

Test Mode:	M02	Line:	Neutral
Test Voltage:	AC 120V_60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	48.46	9.64	58.10	66.00	-7.90	QP
2	0.1500	33.64	9.64	43.28	56.00	-12.72	AVG
3	0.2376	43.10	9.64	52.74	62.18	-9.44	QP
4	0.2376	29.94	9.64	39.58	52.18	-12.60	AVG
5	0.4379	38.15	9.64	47.79	57.10	-9.31	QP
6	0.4379	26.29	9.64	35.93	47.10	-11.17	AVG
7	0.5591	36.25	9.64	45.89	56.00	-10.11	QP
8	0.5591	26.67	9.64	36.31	46.00	-9.69	AVG
9	0.9600	30.13	9.63	39.76	56.00	-16.24	QP
10	0.9600	18.50	9.63	28.13	46.00	-17.87	AVG
11	18.9689	42.12	9.74	51.86	60.00	-8.14	QP
12	18.9689	31.17	9.74	40.91	50.00	-9.09	AVG

Remark:

Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

Margin = Result - Limit

7.2. RADIATED EMISSIONS (30MHZ~1000MHZ)

LIMITS

- a) ISM equipment operating on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
- b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	25	300
		500 or more	$25 \times \text{SQRT}(\text{power}/500)$	1300*

*Field strength may not exceed 10 $\mu\text{V/m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

Note:

(1). $\text{dBuV/m} = 20\log(\text{uV/m})$

(2). $\text{dBuV/m} @3\text{m} = \text{dBuV/m} @300\text{m} + 20\log(300\text{m}/3\text{m})$

- c) Frequency range for field strength measurements:

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.
Above 1,000	do	Tenth harmonic or highest detectable emission.

TEST PROCEDURE

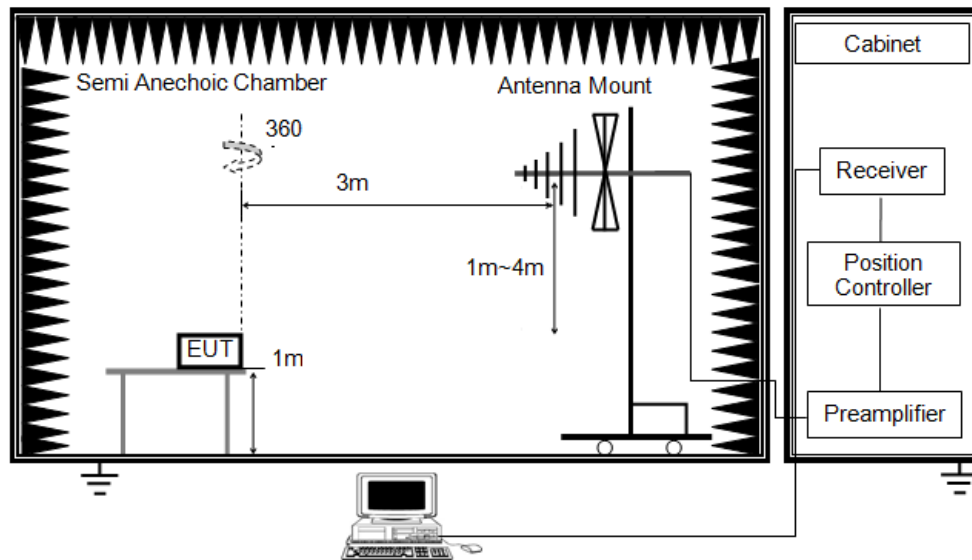
- 1) The testing follows the guidelines in FCC / OST MP-5.
- 2) The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3) The EUT was placed on a turntable with 1m meter above ground.
- 4) The EUT was set 3 meters from the interference receiving antenna, test antenna mast is remotely controlled and can be varied in height form 1m to 4m.
- 5) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

- 6) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 7) For ovens rated at 1000 watts or less power output, the beaker shall contain quantities of water as listed in the following subparagraphs, For ovens rated at more than 1000 watts output, each quantity shall be increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts,
 - a). Load for measurement of radiation on second and third harmonic; Two loads, one of 700ml and the other of 300ml, 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.
 - b). All other emissions were measured while a 700ml water load was placed in the center of the oven.
- 8) The setting of the spectrum analyser

RBW	100kHz
VBW	300kHz
Detector	Peak / Average #

Note: # Peak for pre-scan, average for the final result.

TEST SETUP



Below 1 GHz and above 30 MHz

TEST ENVIRONMENT

Temperature	22.9°C	Relative Humidity	59%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	December 6, 2025	Test By	Stipe Zheng
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TEST MODE

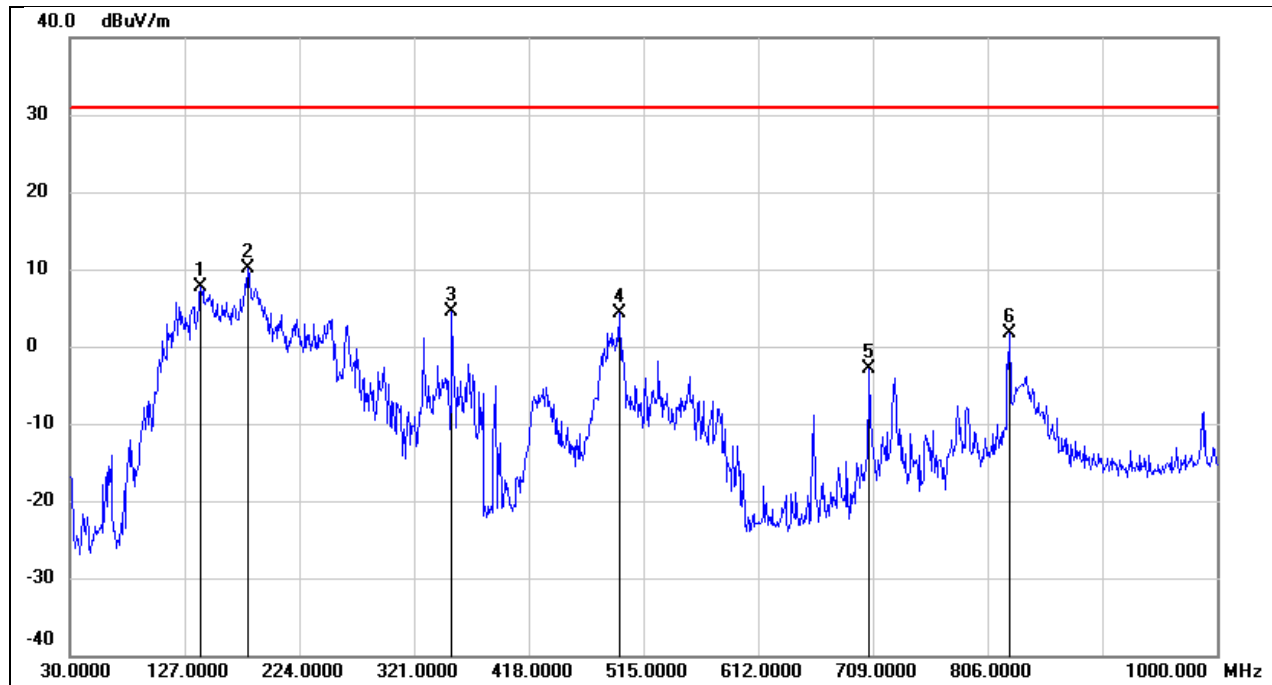
Pre-test Mode:	M01 ~ M05
Final Test Mode:	M02

Note:

1. All test modes had been tested, but only the worst data recorded in the report.
2. This test was conducted in a 3m field, and the test results have been increased by the distance factor.

TEST RESULTS

Test Mode:	M02	Polarity:	Horizontal
Test Voltage:	AC 120V_60Hz		

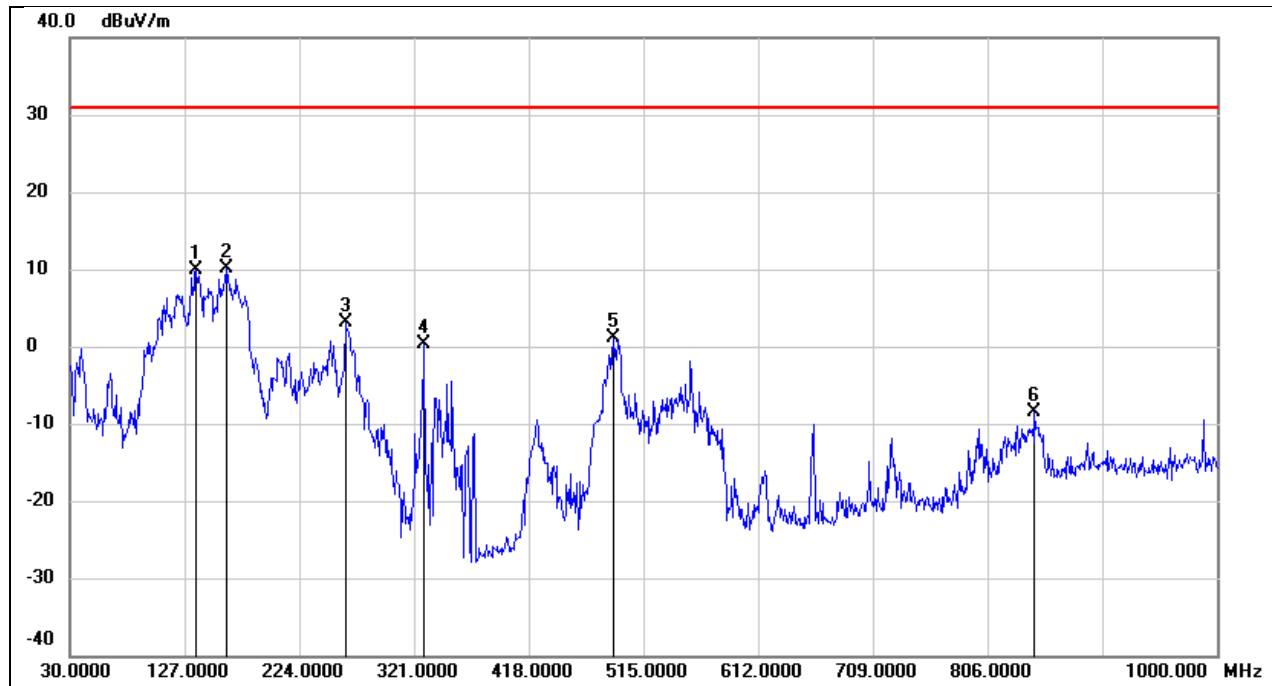


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	140.5800	21.67	40	-13.95	7.72	30.84	-23.12	Peak
2	180.3500	22.02	40	-11.84	10.18	30.84	-20.66	Peak
3	353.0100	14.01	40	-9.53	4.48	30.84	-26.36	Peak
4	494.6300	11.93	40	-7.72	4.21	30.84	-26.63	Peak
5	706.0900	1.25	40	-4.14	-2.89	30.84	-33.73	Peak
6	824.4300	3.76	40	-1.98	1.78	30.84	-29.06	Peak

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.

Test Mode:	M02	Polarity:	Vertical
Test Voltage:	AC 120V_60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	136.7000	24.01	40	-14.11	9.90	30.84	-20.94	Peak
2	161.9200	22.67	40	-12.64	10.03	30.84	-20.81	Peak
3	262.8000	16.98	40	-13.79	3.19	30.84	-27.65	Peak
4	329.7300	10.70	40	-10.33	0.37	30.84	-30.47	Peak
5	489.7800	8.90	40	-7.77	1.13	30.84	-29.71	Peak
6	845.7700	-7.00	40	-1.41	-8.41	30.84	-39.25	Peak

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.

7.3. RADIATED EMISSIONS (1GHZ~25GHZ)

LIMITS

- a) ISM equipment operating on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
- b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	25	300
		500 or more	$25 \times \text{SQRT}(\text{power}/500)$	1300*

*Field strength may not exceed 10 $\mu\text{V/m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

Note:

(1). $\text{dBuV/m} = 20\log(\text{uV/m})$

(2). $\text{dBuV/m} @3\text{m} = \text{dBuV/m} @300\text{m} + 20\log(300\text{m}/3\text{m})$

- c) Frequency range for field strength measurements:

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.
Above 1,000	do	Tenth harmonic or highest detectable emission.

TEST PROCEDURE

- 1) The testing follows the guidelines in FCC / OST MP-5.
- 2) The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3) The EUT was placed on a turntable with 1m meter above ground.
- 4) The EUT was set 3 meters from the interference receiving antenna, test antenna mast is remotely controlled and can be varied in height from 1m to 4m.
- 5) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

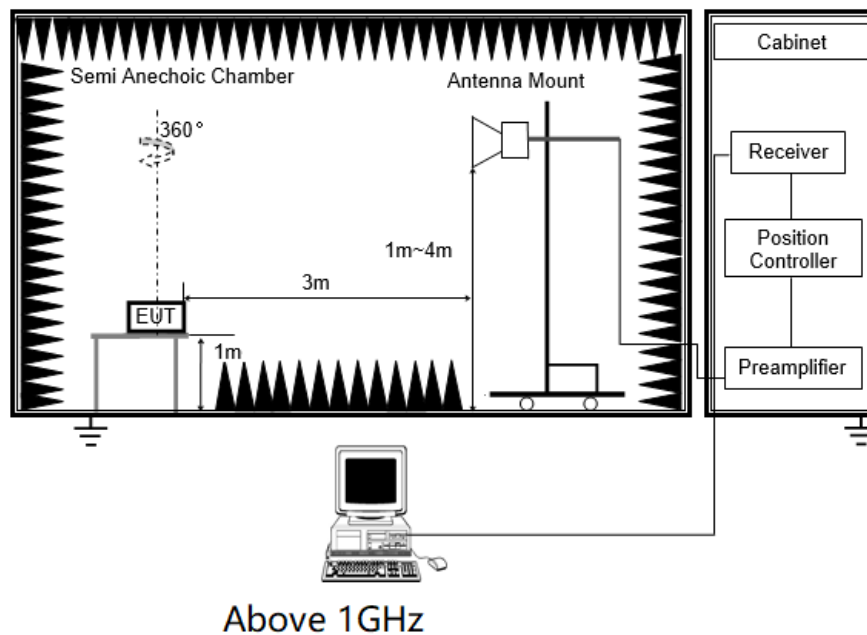
- 6) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 7) For ovens rated at 1000 watts or less power output, the beaker shall contain quantities of water as listed in the following subparagraphs, For ovens rated at more than 1000 watts output, each quantity shall be increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts,
 - a). Load for measurement of radiation on second and third harmonic; Two loads, one of 700ml and the other of 300ml, 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.
 - b). All other emissions were measured while a 700ml water load was placed in the center of the oven.

- 8) The setting of the spectrum analyser

RBW	1MHz
VBW	3MHz
Detector	Peak / Average [#]

Note: # Peak for pre-scan, average for the final result.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.5°C	Relative Humidity	59%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	December 5, 2025	Test By	Stipe Zheng
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TEST MODE

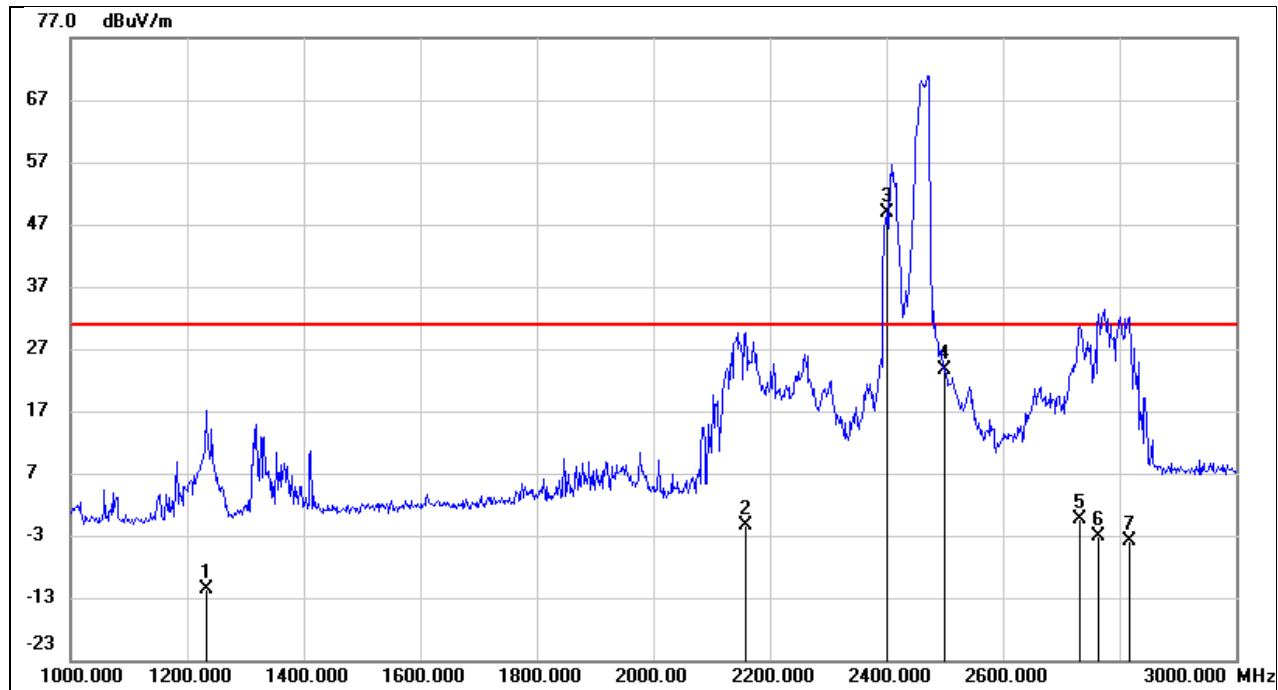
Pre-test Mode:	M01 ~ M05
Final Test Mode:	M02, M04

Note:

1. All test modes had been tested, but only the worst data recorded in the report.
2. This test was conducted in a 3m field, and the test results have been increased by the distance factor.

TEST RESULTS

Test Mode:	M02	Polarity:	Horizontal
Test Voltage:	AC 120V_60Hz		

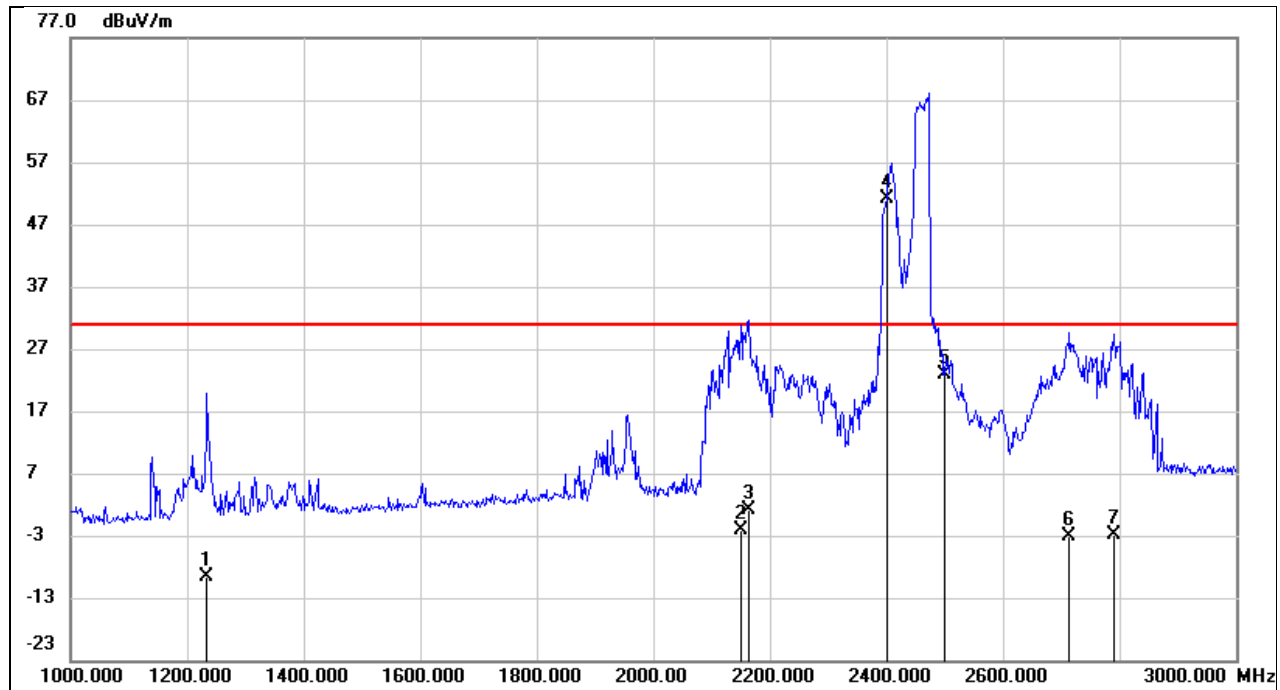


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1232.000	-39.34	40	27.74	-11.60	30.84	-42.44	AVG
2	2158.000	-32.05	40	30.75	-1.30	30.84	-32.14	AVG
3	2400.000	17.13	40	31.73	/	/	/	fundamental
4	2500.000	-8.48	40	32.04	/	/	/	fundamental
5	2732.000	-32.99	40	32.69	-0.30	30.84	-31.14	AVG
6	2764.000	-35.87	40	32.77	-3.10	30.84	-33.94	AVG
7	2816.000	-36.72	40	32.92	-3.80	30.84	-34.64	AVG

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.
4. All the frequencies between mark 3 and mark 4 are the fundamental frequency which were transmitted by wireless module from EUT.

Test Mode:	M02	Polarity:	Vertical
Test Voltage:	AC 120V_60Hz		

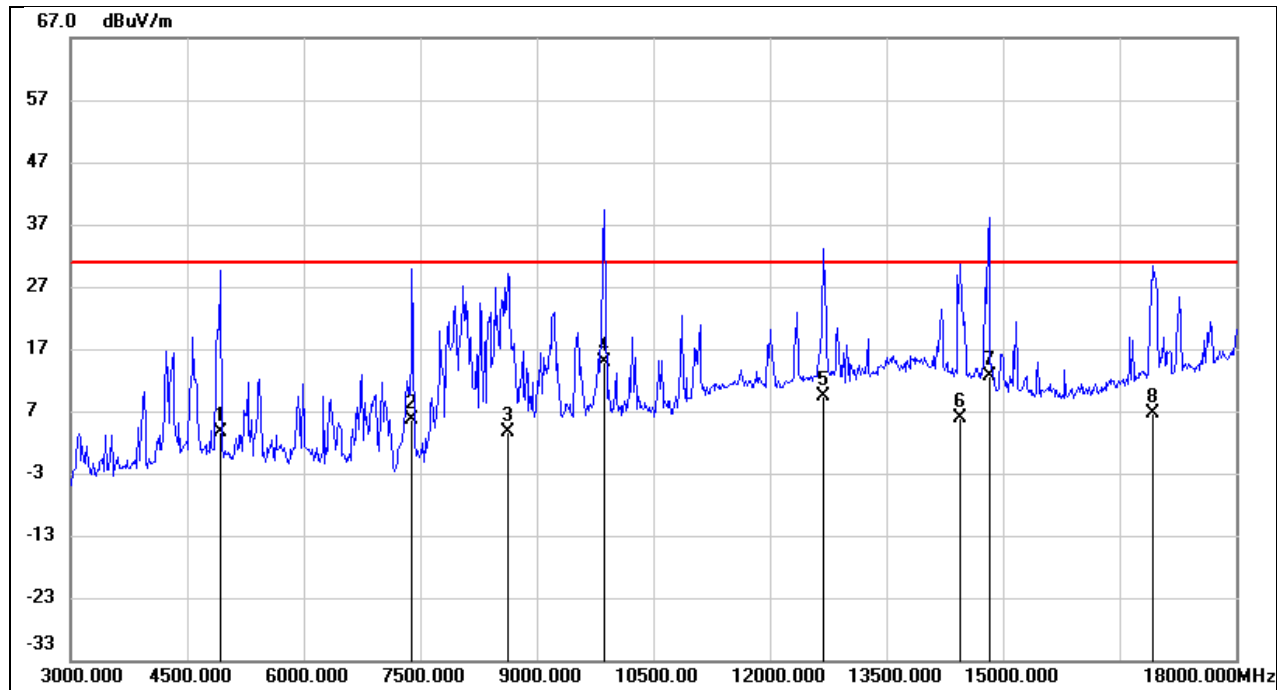


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1234.000	-37.25	40	27.75	-9.50	30.84	-40.34	AVG
2	2150.000	-32.82	40	30.72	-2.10	30.84	-32.94	AVG
3	2164.000	-29.56	40	30.76	1.20	30.84	-29.64	AVG
4	2400.000	19.31	40	31.73	/	/	/	fundamental
5	2500.000	-9.12	40	32.04	/	/	/	fundamental
6	2714.000	-35.74	40	32.64	-3.10	30.84	-33.94	AVG
7	2790.000	-35.64	40	32.84	-2.80	30.84	-33.64	AVG

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.
4. All the frequencies between mark 4 and mark 5 are the fundamental frequency which were transmitted by wireless module from EUT.

Test Mode:	M02	Polarity:	Vertical
Test Voltage:	AC 120V_60Hz		

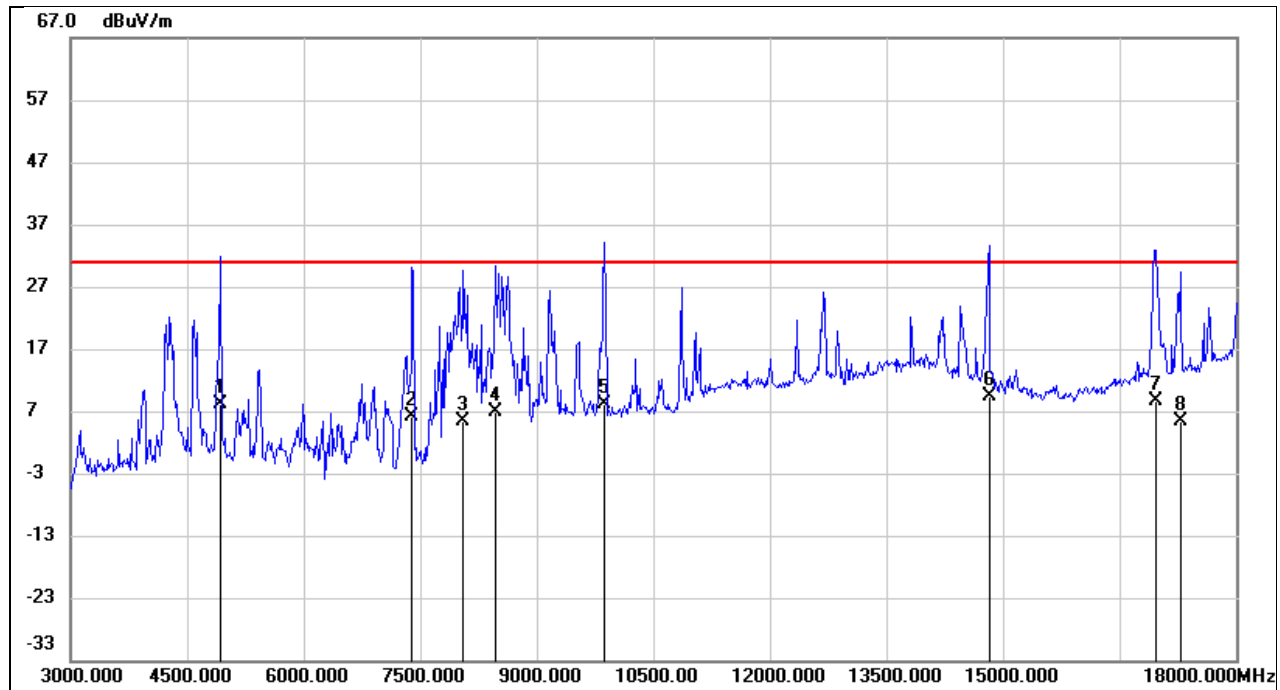


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	2.70	40	0.90	3.60	30.84	-27.24	AVG
2	7395.000	-1.34	40	6.94	5.60	30.84	-25.24	AVG
3	8625.000	-5.61	40	9.31	3.70	30.84	-27.14	AVG
4	9870.000	1.62	40	13.18	14.80	30.84	-16.04	AVG
5	12690.000	-10.35	40	19.85	9.50	30.84	-21.34	AVG
6	14445.000	-16.15	40	22.05	5.90	30.84	-24.94	AVG
7	14820.000	-7.74	40	20.34	12.60	30.84	-18.24	AVG
8	16920.000	-16.55	40	23.25	6.70	30.84	-24.14	AVG

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.
4. M02 and M03 represent the test modes with a 770mL water load, located in the middle and upper right corner, respectively. Only the worst-case scenario data was recorded.

Test Mode:	M02	Polarity:	Horizontal
Test Voltage:	AC 120V_60Hz		

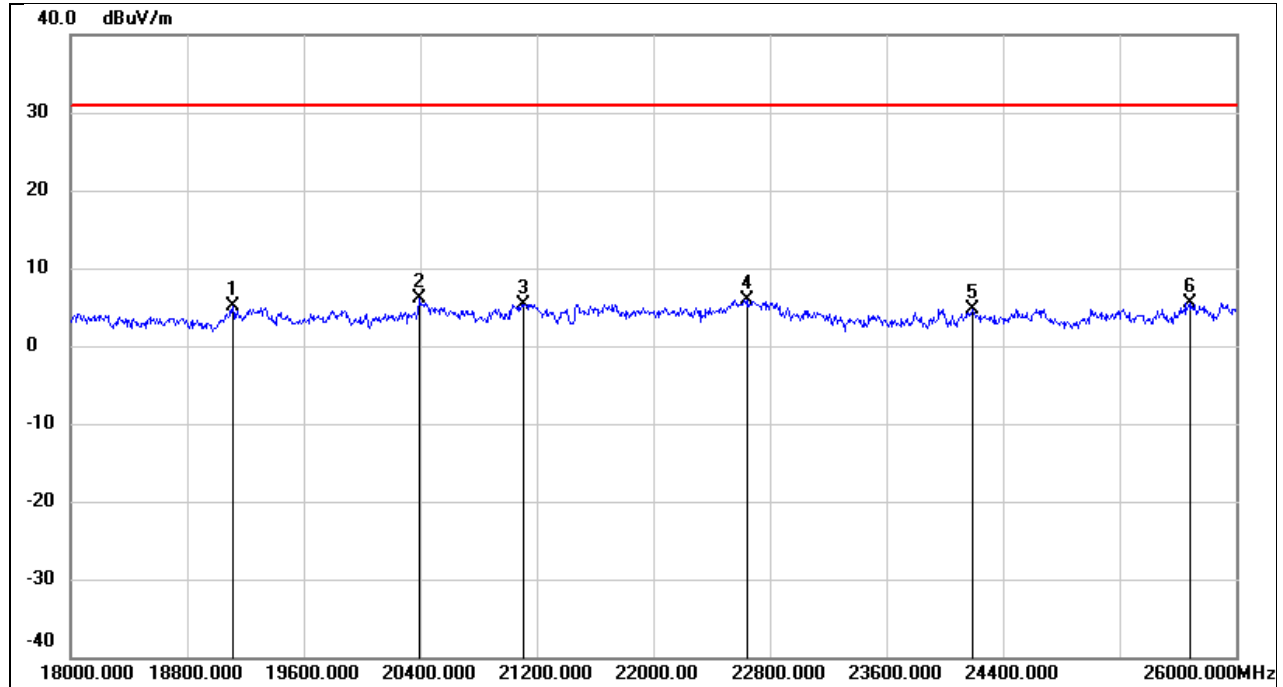


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	7.20	40	0.90	8.10	30.84	-22.74	AVG
2	7395.000	-0.74	40	6.94	6.20	30.84	-24.64	AVG
3	8055.000	-2.97	40	8.27	5.30	30.84	-25.54	AVG
4	8460.000	-2.08	40	8.98	6.90	30.84	-23.94	AVG
5	9870.000	-5.08	40	13.18	8.10	30.84	-22.74	AVG
6	14820.000	-11.04	40	20.34	9.30	30.84	-21.54	AVG
7	16965.000	-14.78	40	23.38	8.60	30.84	-22.24	AVG
8	17280.000	-19.08	40	24.38	5.30	30.84	-25.54	AVG

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.
4. M02 and M03 represent the test modes with a 770mL water load, located in the middle and upper right corner, respectively. Only the worst-case scenario data was recorded.

Test Mode:	M02	Polarity:	Horizontal
Test Voltage:	AC 120V_60Hz		

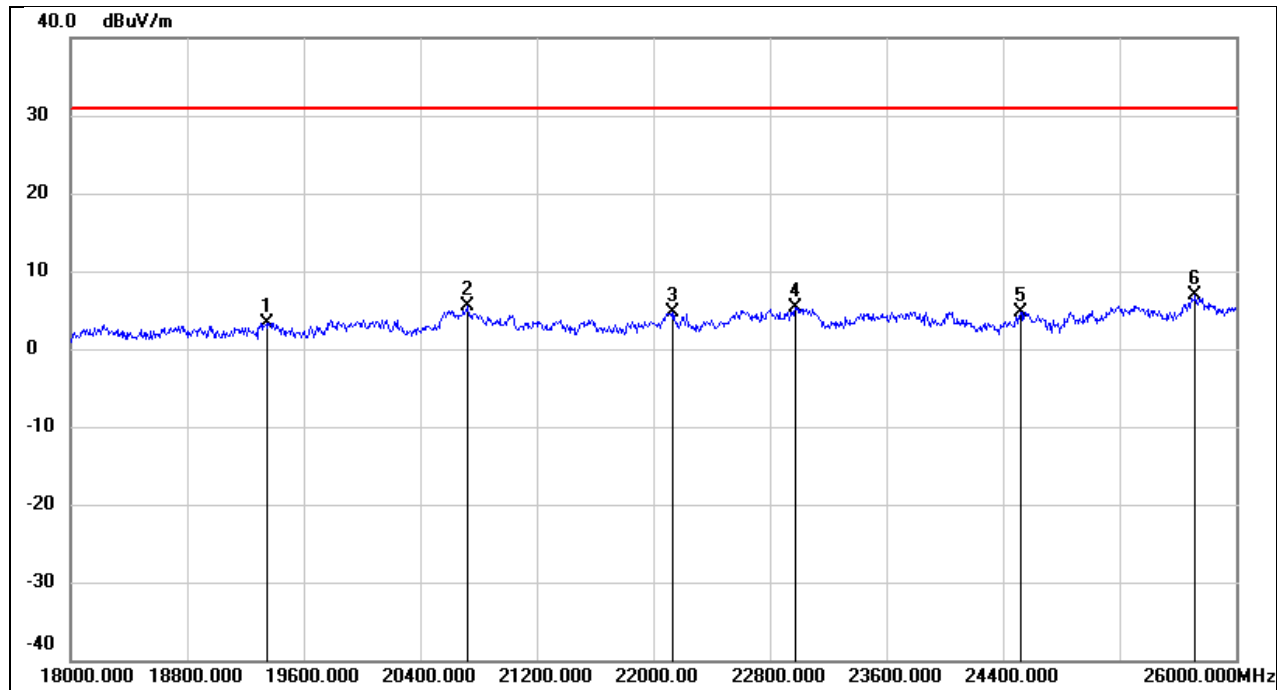


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19112.000	10.57	40	-5.38	5.19	30.84	-25.65	peak
2	20392.000	11.51	40	-5.46	6.05	30.84	-24.79	peak
3	21112.000	10.23	40	-4.83	5.40	30.84	-25.44	peak
4	22648.000	9.76	40	-3.77	5.99	30.84	-24.85	peak
5	24192.000	7.49	40	-2.81	4.68	30.84	-26.16	peak
6	25688.000	6.37	40	-0.90	5.47	30.84	-25.37	peak

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.

Test Mode:	M02	Polarity:	Vertical
Test Voltage:	AC 120V_60Hz		

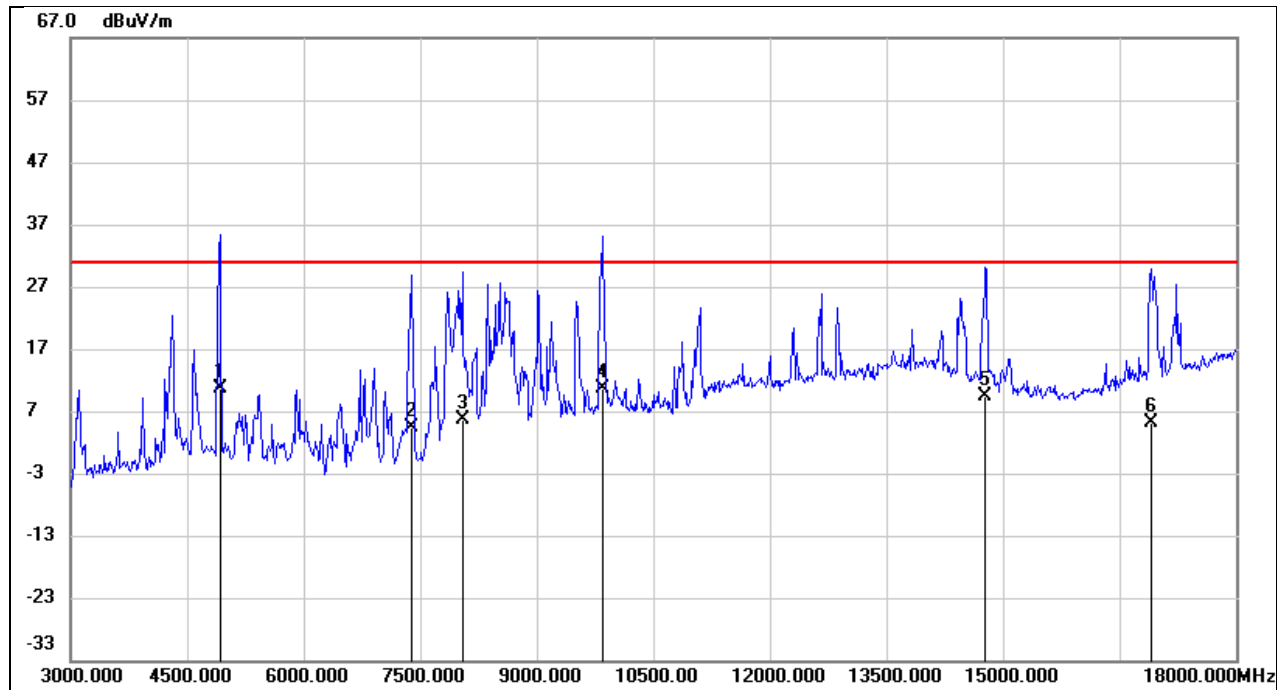


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19344.000	8.93	40	-5.57	3.36	30.84	-27.48	peak
2	20728.000	10.66	40	-5.14	5.52	30.84	-25.32	peak
3	22136.000	8.96	40	-4.34	4.62	30.84	-26.22	peak
4	22976.000	8.76	40	-3.46	5.30	30.84	-25.54	peak
5	24520.000	7.10	40	-2.33	4.77	30.84	-26.07	peak
6	25720.000	7.75	40	-0.75	7.00	30.84	-23.84	peak

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.

Test Mode:	M04	Polarity:	Horizontal
Test Voltage:	AC 120V_60Hz		

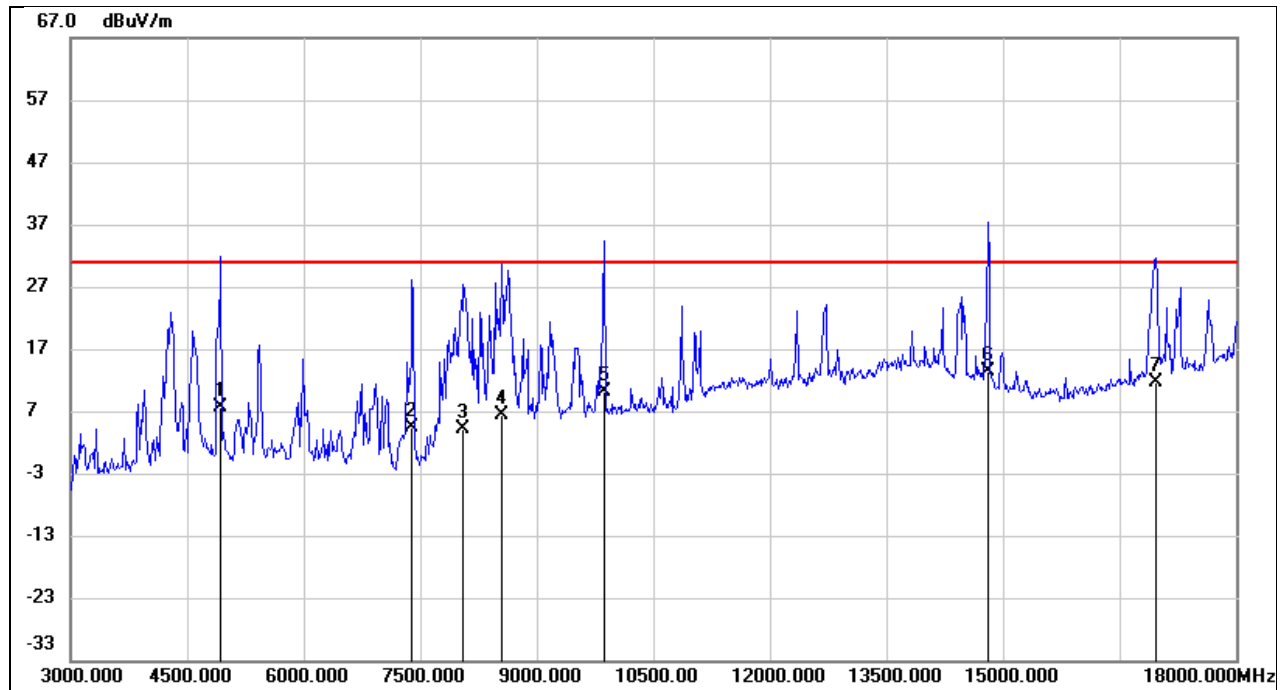


No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	9.74	40	0.86	10.60	30.84	-20.24	AVG
2	7380.000	-2.63	40	6.93	4.30	30.84	-26.54	AVG
3	8040.000	-2.63	40	8.23	5.60	30.84	-25.24	AVG
4	9840.000	-2.57	40	13.17	10.60	30.84	-20.24	AVG
5	14775.000	-11.25	40	20.55	9.30	30.84	-21.54	AVG
6	16905.000	-18.11	40	23.21	5.10	30.84	-25.74	AVG

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.
4. M04 and M05 represent the test modes with a 330mL water load, located in the middle and upper right corner, respectively. Only the worst-case scenario data was recorded.

Test Mode:	M04	Polarity:	Vertical
Test Voltage:	AC 120V_60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Distance Factor (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	6.70	40	0.90	7.60	30.84	-23.24	AVG
2	7395.000	-2.64	40	6.94	4.30	30.84	-26.54	AVG
3	8055.000	-4.17	40	8.27	4.10	30.84	-26.74	AVG
4	8550.000	-2.86	40	9.16	6.30	30.84	-24.54	AVG
5	9870.000	-2.98	40	13.18	10.20	30.84	-20.64	AVG
6	14805.000	-6.90	40	20.40	13.50	30.84	-17.34	AVG
7	16965.000	-11.68	40	23.38	11.70	30.84	-19.14	AVG

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) - Distance Factor
2. Margin = Result – Limit
3. If the peak values are less than the average limit, the peak result is deemed to comply with average limit.
4. M04 and M05 represent the test modes with a 330mL water load, located in the middle and upper right corner, respectively. Only the worst-case scenario data was recorded.

7.4. OPERATING FREQUENCY

LIMITS

2400MHz~2500MHz

TEST PROCEDURE

The EUT was setup inside the Fully Anechoic chamber, and a double ridge horn antenna and spectrum analyzer were used to measure the fundamental frequency of the EUT.

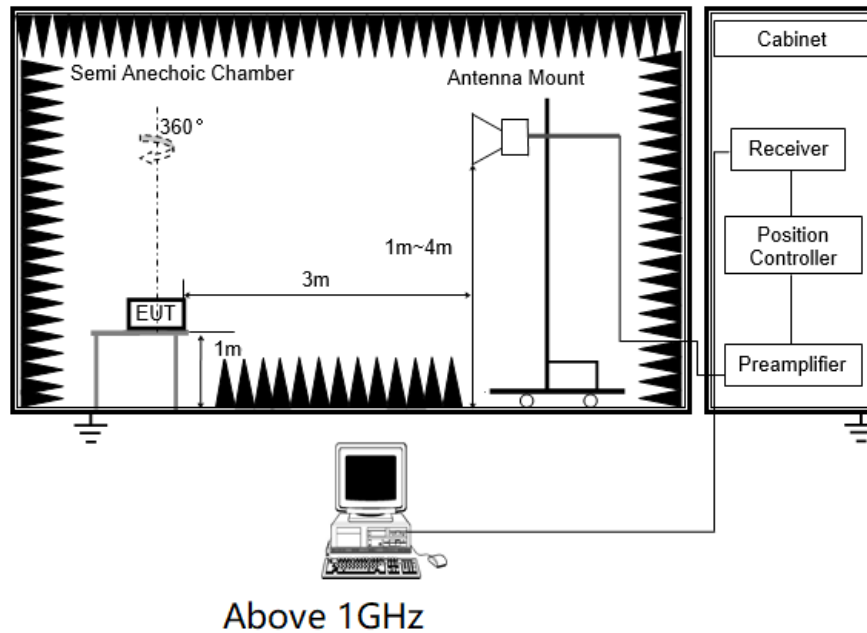
1) FREQUENCY FOR NORMAL VOLTAGE

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. This test is made with nominal rated ac supply voltage.

2) FREQUENCY FOR 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% of the nominal rating.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	51.0%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	December 5, 2025	Test By	Wite Chen
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TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

TEST RESULTS

(a) Frequency of Normal Voltage (After EUT Warm-up time 10 minutes):

Time (Minutes)	Polar	Operating Frequency (MHz)	Limit (MHz)
0 (Water 100%)	Horizontal	2466	Lower: 2400MHz Upper: 2500MHz
	Vertical	2468	
16 (Water 70%)	Horizontal	2464	
	Vertical	2470	
28 (Water 50%)	Horizontal	2472	
	Vertical	2472	
49 (Water 20%)	Horizontal	2468	
	Vertical	2470	
Remak: 1. Only the worst volume of water was recorded in the report. 2. The microwave operates at an ISM frequency of 2450 MHz (±50 MHz).			

(b) Frequency of Line Voltage (After EUT Warm-up time 10 minutes):

Input Voltage (Vac)	Polar	Operating Frequency (MHz)	Limit (MHz)
96 (Voltage 80%)	Horizontal	2470	Lower: 2400MHz Upper: 2500MHz
	Vertical	2472	
108 (Voltage 90%)	Horizontal	2470	
	Vertical	2470	
120 (Voltage 100%)	Horizontal	2472	
	Vertical	2466	
132 (Voltage 110%)	Horizontal	2450	
	Vertical	2472	
150 (Voltage 125%)	Horizontal	2470	
	Vertical	2470	
Remak: 1. Only the worst rated voltage was recorded in the report. 2. The microwave operates at an ISM frequency of 2450 MHz (±50 MHz).			

7.5. INPUT POWER

TEST PROCEDURE

- 1) The input power and current was measured using a power source.
- 2) For ovens rated at 1000 watts or less power output, the beaker shall contain quantities of water as listed in the following subparagraphs, for ovens rated at more than 1000 watts output, each quantity shall be increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts,
A 700ml water load in a beaker was located in the center of the microwave oven and the microwave oven was set to full power.

TEST ENVIRONMENT

Temperature	24.5°C	Relative Humidity	51.0%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	December 2, 2025	Test By	Wite Chen
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TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

TEST RESULTS

Input Power				
Input Voltage (Vac)	Input Current (A)	Power Factor	Measured Input Power (W)	Rated Input Power (W)
120V	13.801	0.985	1630	1350

7.6. OUTPUT POWER

TEST PROCEDURE

- 1) The caloric method was used to determine full output power.
- 2) For ovens rated at 1000 watts or less power output, the beaker shall contain quantities of water as listed in the following subparagraphs, For ovens rated at more than 1000 watts output, each quantity shall be increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts,
Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven
- 3) The Microwave Oven was set to maximum power and operation 120 seconds, Then measure and record the temperature of the water.
- 4) According to the calculated formula:

$$P = 4.187 * m_{\text{water}} * (T_2 - T_1) / \text{Time}$$

P: the microwave power output(W)

m_{water} : the mass of the water(g)

T_1 : the initial temperature of the water(°C)

T_2 : the final temperature of the water(°C)

Time: the heating time (second)

TEST ENVIRONMENT

Temperature	24.5°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	December 2, 2025	Test By	Wite Chen
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TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

TEST RESULTS

Output Power

m _{water} (g)	T ₁ (°C)	T ₂ (°C)	Time (second)	P (W)
1000	28.24	56.04	120	969.99

Field strength limit

P (W)	Field strength limit 25 x SQRT (power/500)		
	(uV/m) @300m	dBuV/m@300m	dBuV/m@3m
969.99	34.82	30.84	70.84

$$\text{dBuV/m} = 20\log(\text{uV/m})$$

$$\text{dBuV/m @3m} = \text{dBuV/m @300m} + 20\log(300\text{m}/3\text{m})$$

7.7. RADIATION HAZARD

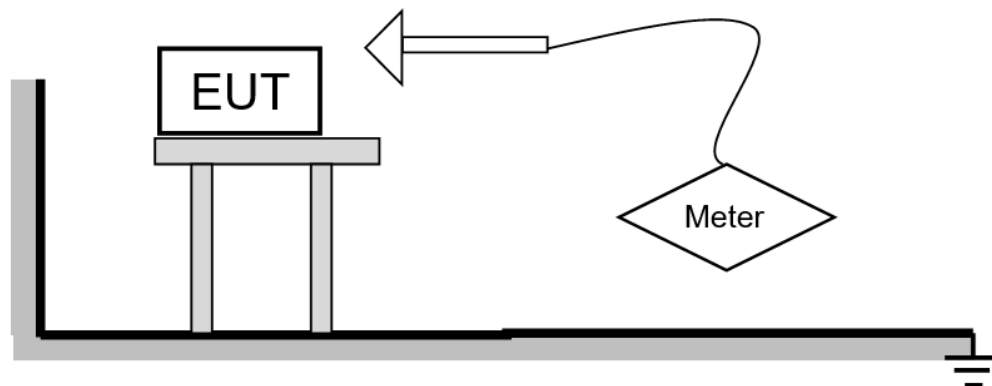
LIMITS

Maximum Emission (mW/cm ²)
1.00

TEST PROCEDURE

- 1) The EUT was set-up according to the FCC MP-5 and Part 18 for Radiation Hazard Measurement.
- 2) The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed.
- 3) For ovens rated at 1000 watts or less power output, the beaker shall contain quantities of water as listed in the following subparagraphs, For ovens rated at more than 1000 watts output, each quantity shall be increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts,
A 700ml water load in a beaker was located in the center of the oven and the Household Microwave Combi Oven was set to maximum power.
- 4) While the oven operating, the microwave survey meter probe was moved slowly around the door seams the check for maximum leakage.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.5°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	December 2, 2025	Test By	Wite Chen
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TEST MODE

Pre-test Mode:	M02
Final Test Mode:	M02

TEST RESULTS

Radiation Hazard		
Maximum expose value (mW/cm ²)	Limit (mW/cm ²)	Result
0.176	1.00	Pass

END OF REPORT