

TEST REPORT

Applicant Name: Guangdong Welly Electrical Appliances Co., Ltd
Address: Fusha Industrial Park, Fusha Town, Zhongshan City, Guangdong Province, China
Report Number: 2604U11040E-EM
FCC ID: YI4DWC42PXP34

Test Standard (s)

FCC PART 18

Sample Description

Product Name: Microwave Oven
Model No.: C42PXP38-A1F
Trade Mark: N/A
Received Date: 2026-06-05
Report Date: 2026-06-28

Test Result:	The EUT complied with the standards above.
--------------	--

Prepared and Checked By:

Homelander Dai

Homelander Dai
EMC Engineer

Approved By:

Bob. Liao

Bob.Liao
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. 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 but no need marked.
This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Shenzhen Accurate Technology Co., Ltd.

Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Tel: +86 755-26503290

Web: www.atc-lab.com

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY.....	3
GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
TEST METHODOLOGY	4
TEST FACILITY	5
MEASUREMENT UNCERTAINTY	5
OPERATING CONDITION/TEST CONFIGURATION	6
DESCRIPTION OF TEST CONFIGURATION.....	6
SPECIAL ACCESSORIES	6
EQUIPMENT MODIFICATIONS.....	6
SUPPORT EQUIPMENT LIST AND DETAILS	6
EXTERNAL I/O CABLE.....	6
CONFIGURATION OF TEST SETUP.....	6
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULT	8
TEST EQUIPMENT LIST	9
MAXIMUM PERMISSIBLE EXPOSURE.....	10
APPLICABLE STANDARD.....	10
EUT SETUP.....	10
MEASUREMENT	10
CONDUCTED EMISSIONS.....	12
APPLICABLE STANDARD.....	12
EUT SETUP	12
EMI TEST RECEIVER SETUP.....	12
TEST PROCEDURE	13
CALCULATION	13
TEST DATA	13
RADIATION HAZARD MEASUREMENT	18
APPLICABLE STANDARD.....	18
1. INPUT POWER & OUTPUT POWER	18
1.1 INPUT POWER	18
1.2 LOAD FOR HOUSEHOLD MICROWAVE OVENS	18
1.3 RF OUTPUT POWER MEASUREMENT	19
2. OPERATING FREQUENCY MEASUREMENT	21
2.1 OPERATING FREQUENCIES.....	21
2.2 VARIATION IN OPERATING FREQUENCY WITH TIME	22
2.2 VARIATION IN OPERATING FREQUENCY WITH LINE VOLTAGE.....	24
RADIATED EMISSIONS	26
APPLICABLE STANDARD.....	26
EUT SETUP	26
EMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP	27
TEST PROCEDURE	27
CALCULATION	28
TEST DATA AND PLOTS	28
EXHIBIT A-EUT PHOTOGRAPHS	47
EXHIBIT B-TEST SETUP PHOTOGRAPHS	48

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2604U11040E-EM	Original Report	2026-06-28

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Microwave Oven
Tested Model	C42PXP38-A1F
Highest Operating Frequency [#]	2450MHz
Voltage Range [#]	AC 120V 60Hz (with ground)
Microwave Output Power [#]	1100 W
Microwave Input Power [#]	1550 W
Sample Serial Number	3NMF-1(Magnetron: 2M286-21TDG) 3NMF-2(Magnetron: 2M510H) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition
Note1: This model(C42PXP38-A1F) has two different magnetrons. Note2: The device comes with an AC cable(0.9 m).	

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.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

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.

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

Measurement Uncertainty

Parameter		Uncertainty
AC Power Lines Conducted Emissions		2.7 dB(k=2, 95% level of confidence)
Maximum Permissible Exposure		1.0 dB(k=2, 95% level of confidence)
Emissions, Radiated	9kHz - 30MHz	2.1 dB(k=2, 95% level of confidence)
	30MHz - 1GHz	4.3 dB(k=2, 95% level of confidence)
	1GHz-18GHz	4.9 dB(k=2, 95% level of confidence)
	18GHz-26.5GHz	5.2 dB(k=2, 95% level of confidence)
Temperature		1 °C
Humidity		2 %
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.

OPERATING CONDITION/TEST CONFIGURATION

Description of Test Configuration

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.

Special Accessories

No special accessory was used.

Equipment Modifications

No modifications were made to the EUT tested.

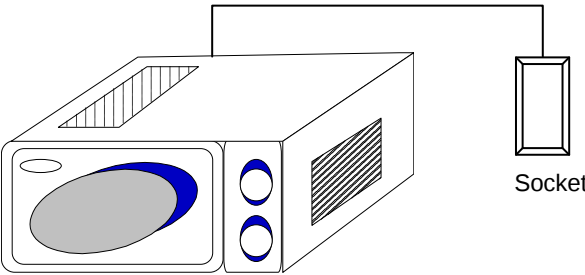
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
HUJIAO	Glass beaker	Unknown	Unknown

External I/O Cable

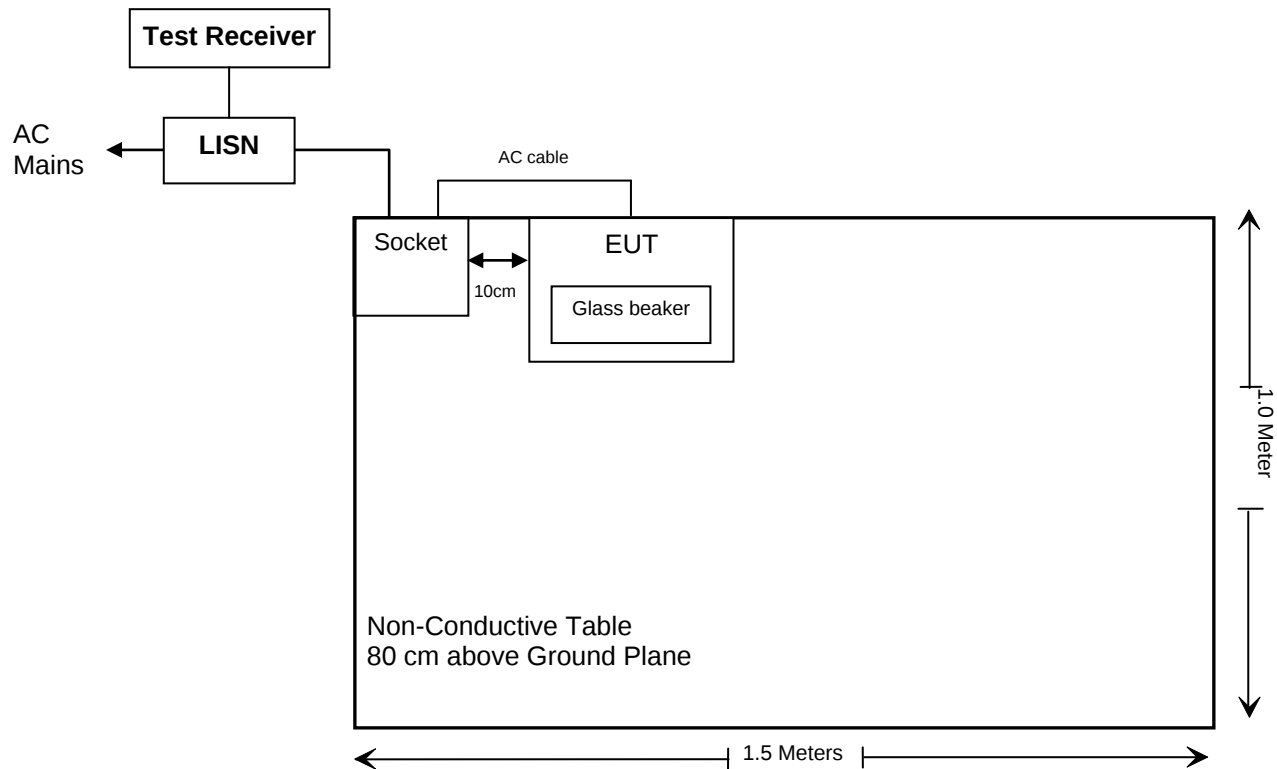
Cable Description	Shielding Type	Length (m)	From Port	To
AC Cable	No	0.9	Socket	EUT

Configuration of Test Setup

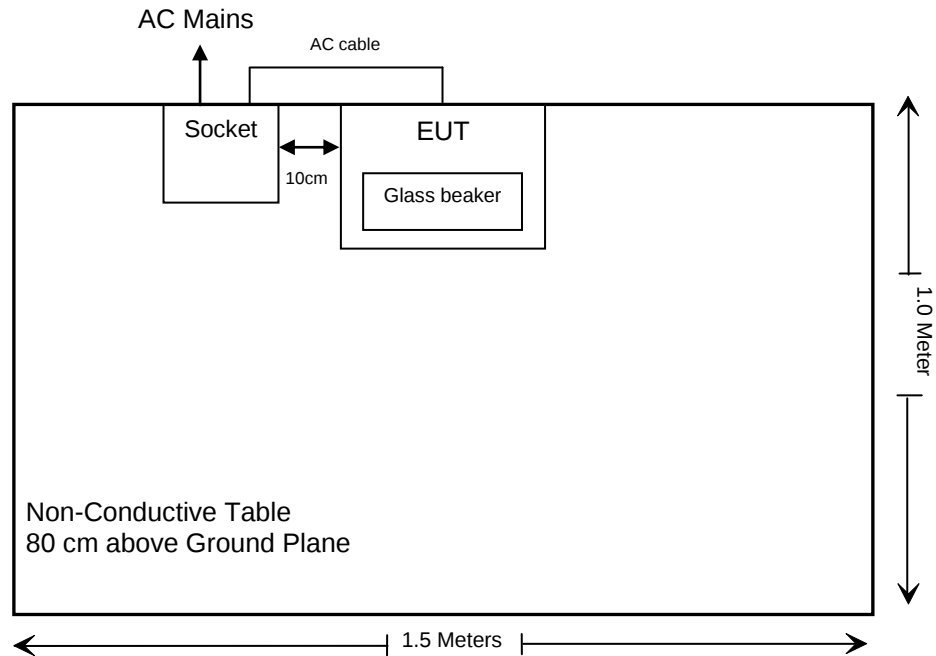


Block Diagram of Test Setup

For Conducted Emission:



For Radiated Emission:



SUMMARY OF TEST RESULT

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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2026/05/07	2027/05/06
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2026/05/07	2027/05/06
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2026/05/07	2027/05/06
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	100312	2026/05/07	2027/05/06
Unknown	RF Coaxial Cable	No.17	N0350	2026/05/07	2027/05/06
Test Software: e3 191218 (V9)					
Radiated Emission Test & Radiation Hazard Measurement (Below 1GHz)					
Rohde & Schwarz	Test Receiver	ESR	102725	2026/05/07	2027/05/06
SONOMA INSTRUMENT	Amplifier	310N	186131	2026/01/20	2027/01/19
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2026/05/07	2027/05/06
Unknown	RF Coaxial Cable	No.13	N300	2026/05/07	2027/05/06
Unknown	RF Coaxial Cable	No.14	N800	2026/05/07	2027/05/06
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Test Software: e3 191218 (V9)					
Radiated Emission Test(Above 1GHz) & Radiation Hazard Measurement					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101948	2026/05/07	2027/05/06
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2026/05/07	2027/05/06
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2026/05/07	2027/05/06
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2026/01/20	2027/01/19
Schwarzbeck	Horn Antenna	BBHA9120D	837	2026/01/29	2029/01/30
Unknown	RF Coaxial Cable	No.10	N050	2026/05/07	2027/05/06
Unknown	RF Coaxial Cable	No.11	N1000	2026/05/07	2027/05/06
Unknown	RF Coaxial Cable	No.19	N500	2026/05/07	2027/05/06
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2023/12/12	2026/12/11
BACL	Amplifier	BACL-1313-A1840	4012521	2026/05/07	2027/05/06
Unknown	RF Coaxial Cable	No.15	N600	2026/05/07	2027/05/06
Unknown	RF Coaxial Cable	No.16	N650	2026/05/07	2027/05/06
Test Software: e3 191218 (V9)					
Maximum Permissible Exposure					
MC	Thermometer	Unknown	Unknown	2025/09/18	2026/09/17
ETS	Microwave Survey Meter	1501	123654	2025/09/18	2026/09/17
YOKOGAWA	Digital Power Meter	WT310E	C3VD10030E	2026/03/26	2027/03/25

*** 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).

MAXIMUM PERMISSIBLE EXPOSURE

Applicable Standard

FCC §18.313, §1.1310, §2.1091

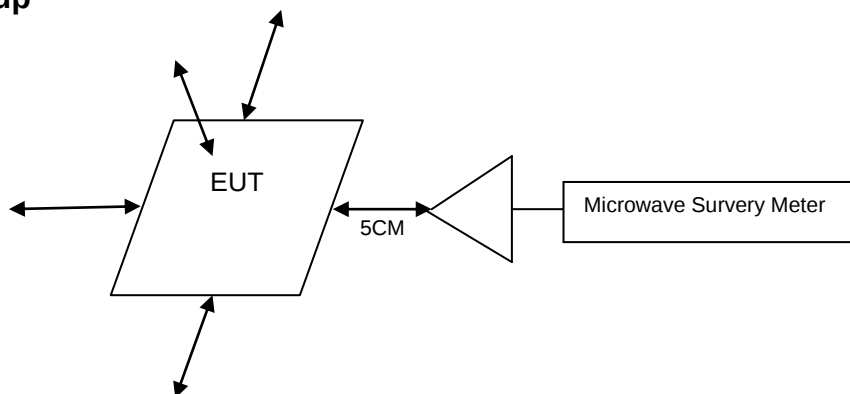
According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	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;

EUT Setup



Measurement

Environmental Conditions

Temperature:	22.3-22.5 °C
Relative Humidity:	51-52 %
ATM Pressure:	100.3 kPa
Test Engineer:	Max Tao
Test Date:	2026-06-28

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.

Serial Number: 3NMF-1

☒ There was no microwave leakage exceeding a power level of 0.18mW/cm² observed at any point 5 cm or more from the external surface of the oven.

Serial Number: 3NMF-2

☒ There was no microwave leakage exceeding a power level of 0.19mW/cm² observed at any point 5 cm or more from the external surface of the oven.

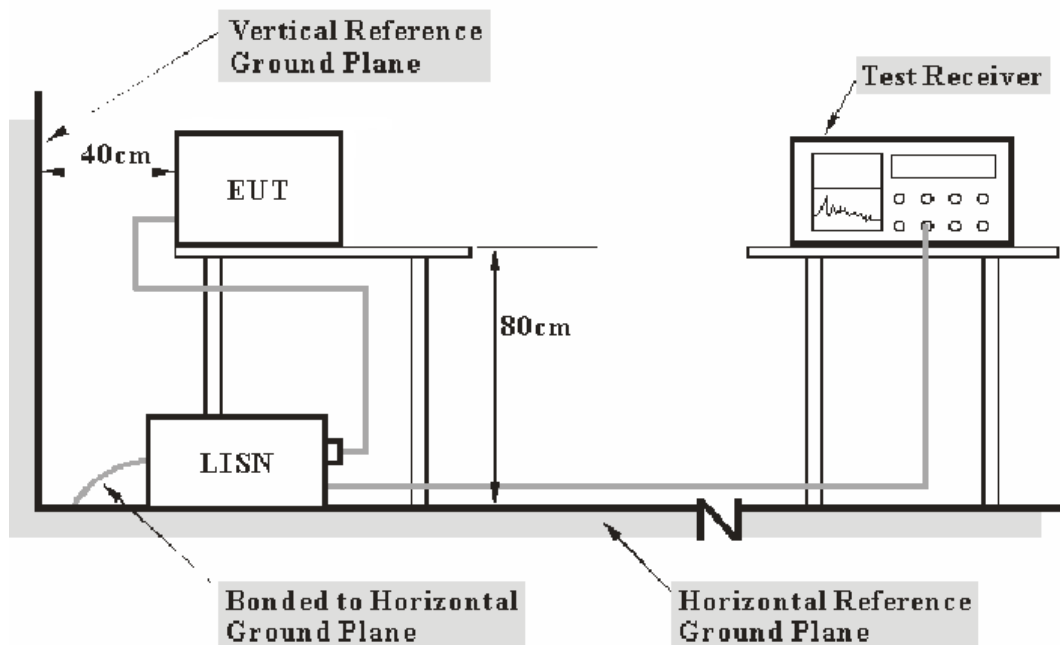
A maximum of 1.0 mW/cm² is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

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.

Calculation

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

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + 10\text{dB Attenuation(Limiter)}$$

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:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

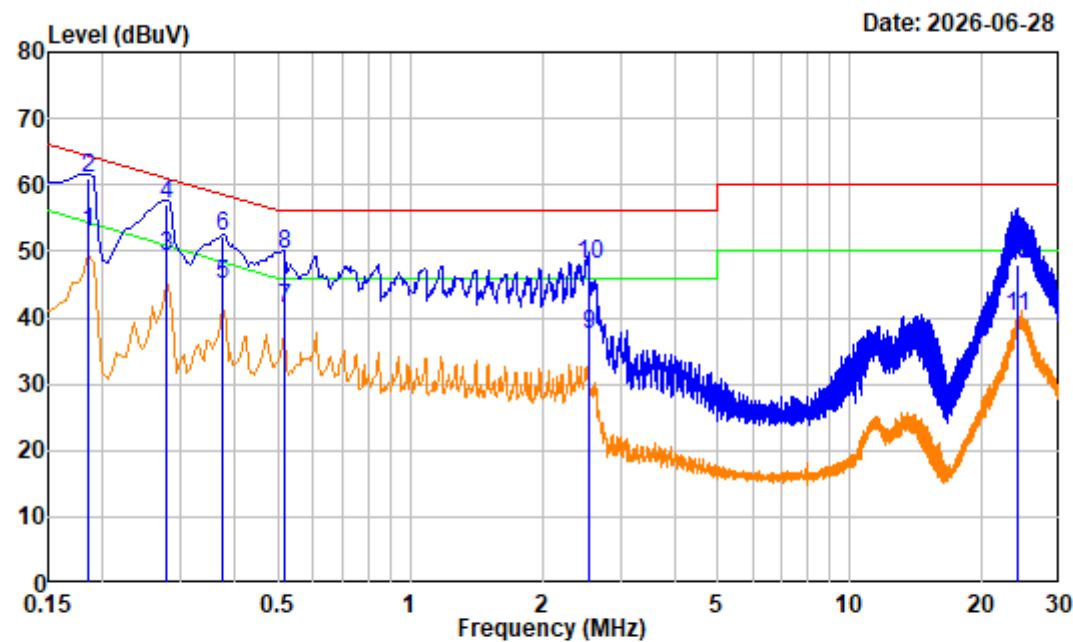
Test Data

Environmental Conditions

Temperature:	24.4 °C
Relative Humidity:	43 %
ATM Pressure:	100.3 kPa
Test Engineer:	Ronour Huang
Test Date:	2026-06-28
EUT Operation Mode:	Microwave (Maximum output power)
Investigated Frequency Range:	150kHz to 30MHz

Test Result: Compliance, please refer to the following data.

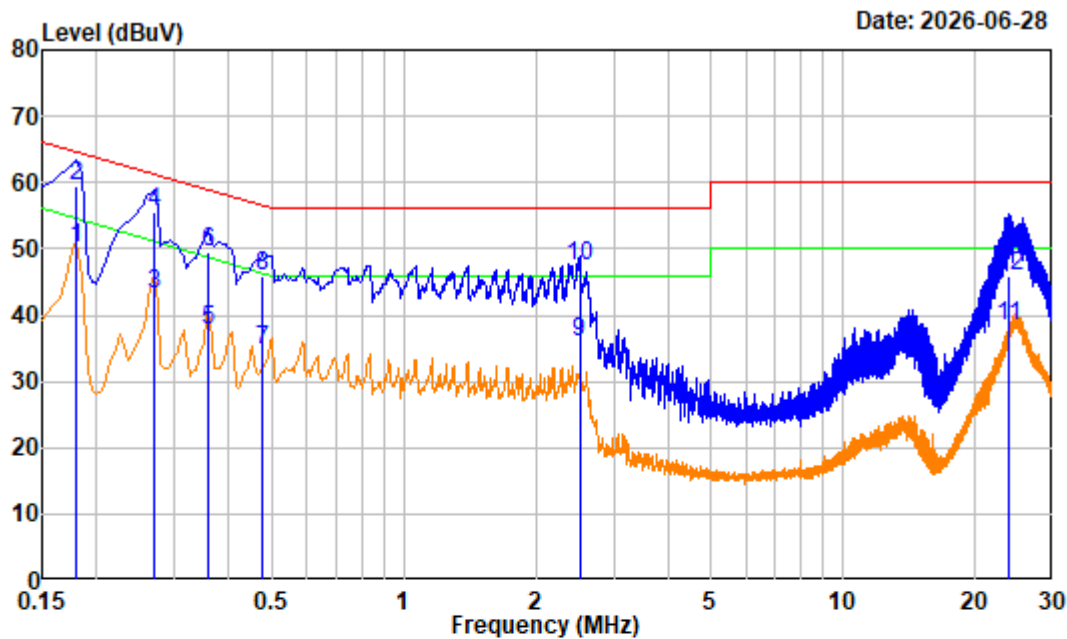
Serial Number:3NMF-1
AC 120V 60Hz, Line:



Site : Shielding Room
Condition: Line
Job No. : 2604U11040E-EM
Test Mode: Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.185	19.99	32.94	52.93	54.26	-1.33	Average
2	0.185	19.99	41.03	61.02	64.26	-3.24	QP
3	0.280	20.07	29.21	49.28	50.82	-1.54	Average
4	0.280	20.07	37.00	57.07	60.82	-3.75	QP
5	0.375	20.04	24.94	44.98	48.39	-3.41	Average
6	0.375	20.04	32.28	52.32	58.39	-6.07	QP
7	0.515	20.02	21.20	41.22	46.00	-4.78	Average
8	0.515	20.02	29.35	49.37	56.00	-6.63	QP
9	2.540	20.48	17.07	37.55	46.00	-8.45	Average
10	2.540	20.48	27.54	48.02	56.00	-7.98	QP
11	23.975	19.53	20.59	40.12	50.00	-9.88	Average
12	23.975	19.53	28.50	48.03	60.00	-11.97	QP

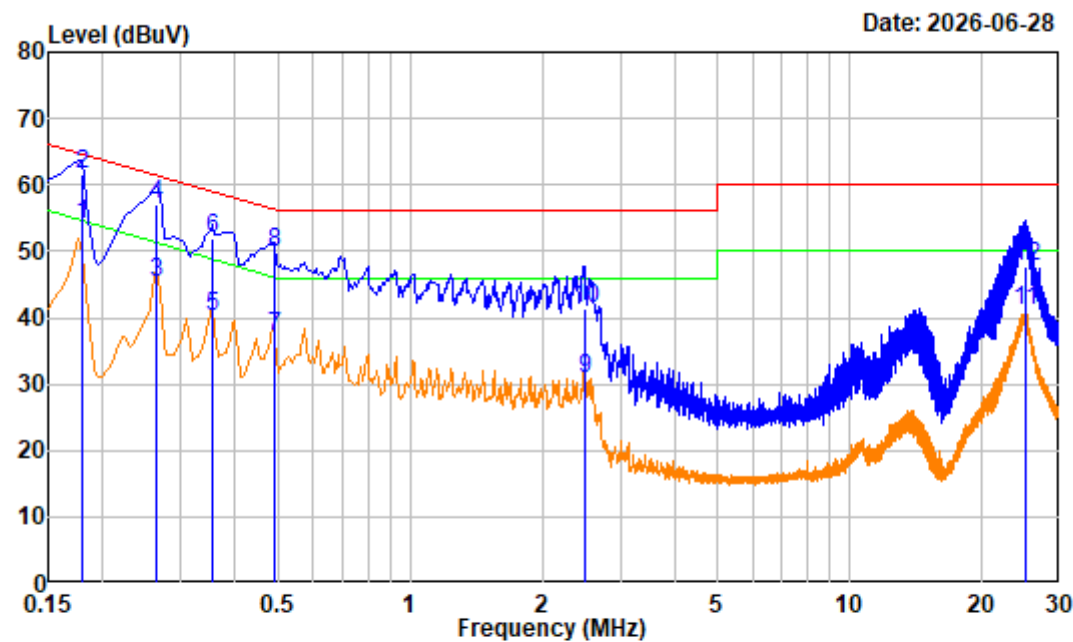
AC 120V 60Hz, Neutral:



Site : Shielding Room
Condition: neutral
Job No. : 2604U11040E-EM
Test Mode: Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.180	19.46	30.56	50.02	54.49	-4.47	Average
2	0.180	19.46	40.11	59.57	64.49	-4.92	QP
3	0.270	19.67	23.59	43.26	51.12	-7.86	Average
4	0.270	19.67	35.77	55.44	61.12	-5.68	QP
5	0.360	19.83	17.81	37.64	48.73	-11.09	Average
6	0.360	19.83	29.74	49.57	58.73	-9.16	QP
7	0.475	19.99	14.85	34.84	46.43	-11.59	Average
8	0.475	19.99	25.93	45.92	56.43	-10.51	QP
9	2.510	19.98	15.95	35.93	46.00	-10.07	Average
10	2.510	19.98	27.35	47.33	56.00	-8.67	QP
11	23.815	19.97	18.45	38.42	50.00	-11.58	Average
12	23.815	19.97	25.85	45.82	60.00	-14.18	QP

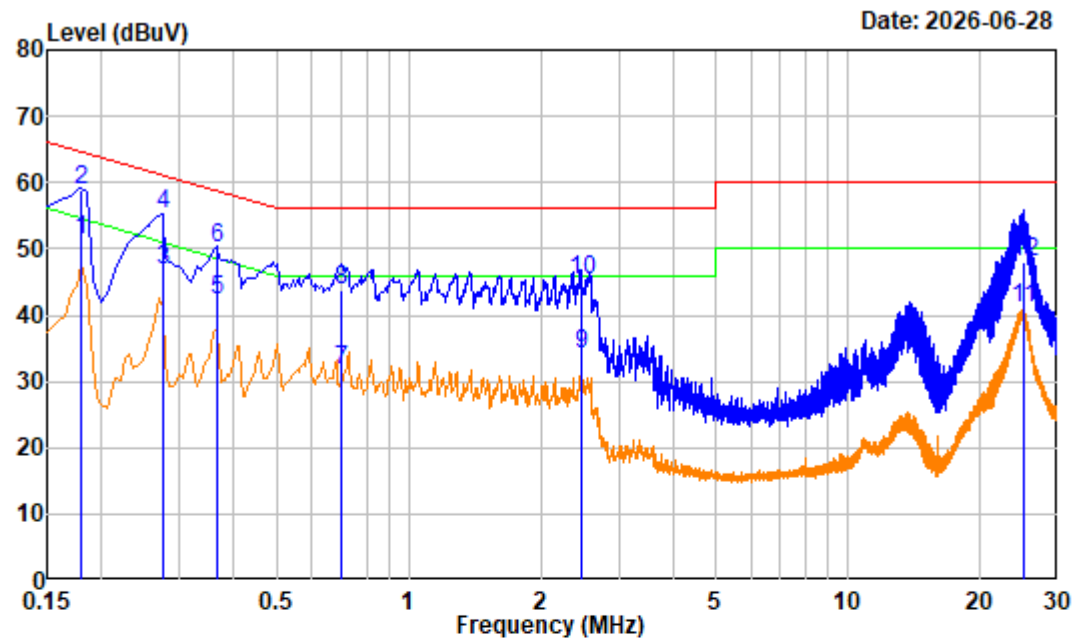
Serial Number: 3NMF-2
AC 120V 60Hz, Line:



Site : Shielding Room
Condition: Line
Job No. : 2604U11040E-EM
Test Mode: Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.180	19.95	34.16	54.11	54.49	-0.38	Average
2	0.180	19.95	41.58	61.53	64.49	-2.96	QP
3	0.265	20.08	25.11	45.19	51.27	-6.08	Average
4	0.265	20.08	36.94	57.02	61.27	-4.25	QP
5	0.355	20.05	20.13	40.18	48.84	-8.66	Average
6	0.355	20.05	31.75	51.80	58.84	-7.04	QP
7	0.490	20.02	16.97	36.99	46.17	-9.18	Average
8	0.490	20.02	29.78	49.80	56.17	-6.37	QP
9	2.490	20.48	10.37	30.85	46.00	-15.15	Average
10	2.490	20.48	20.85	41.33	56.00	-14.67	QP
11	25.070	19.49	21.69	41.18	50.00	-8.82	Average
12	25.070	19.49	28.32	47.81	60.00	-12.19	QP

AC 120V 60Hz, Neutral:



Site : Shielding Room
Condition: neutral
Job No. : 2604U11040E-EM
Test Mode: Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.180	19.46	31.99	51.45	54.49	-3.04	Average
2	0.180	19.46	39.38	58.84	64.49	-5.65	QP
3	0.275	19.68	27.14	46.82	50.97	-4.15	Average
4	0.275	19.68	35.68	55.36	60.97	-5.61	QP
5	0.365	19.84	22.54	42.38	48.61	-6.23	Average
6	0.365	19.84	30.39	50.23	58.61	-8.38	QP
7	0.700	20.03	11.52	31.55	46.00	-14.45	Average
8	0.700	20.03	23.70	43.73	56.00	-12.27	QP
9	2.460	19.98	13.99	33.97	46.00	-12.03	Average
10	2.460	19.98	25.27	45.25	56.00	-10.75	QP
11	25.070	19.95	21.00	40.95	50.00	-9.05	Average
12	25.070	19.95	27.96	47.91	60.00	-12.09	QP

RADIATION HAZARD MEASUREMENT

Applicable Standard

FCC §18.301 & FCC/OST MP-5

1. Input Power & Output Power

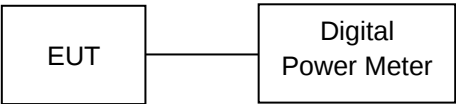
Environmental Conditions

Temperature:	22.3-22.5 °C
Relative Humidity:	51-52 %
ATM Pressure:	100.3 kPa
Test Engineer:	Max Tao
Test Date:	2026-06-28

1.1 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.

EUT Setup



Result

Serial Number:3NMF-1

Input Voltage (V _{AC})	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
118.5	10.8	1279.8	1550

Serial Number: 3NMF-2

Input Voltage (V _{AC})	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
118.6	10.9	1292.7	1550

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

1.2 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.
- Load for all other measurements: 700 milliliters of water. withl the beaker located in the center of the oven.

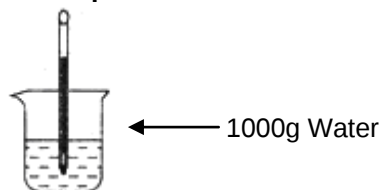
1.3 RF Output Power Measurement

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.

EUT Setup



Result

Serial Number:3NMF-1

m_w (g)	m_c (g)	T_0 (°C)	T_1 (°C)	T_2 (°C)	t (s)
1000	377	23.5	11.6	24.8	60

$$\text{RF Output Power} = (4.187 \times 1000 \times (24.8 - 11.6) + 0.55 \times 377.0 \times (24.8 - 23.5)) / 60 = \underline{925.63} \text{ Watts}$$

Serial Number: 3NMF-2

m_w (g)	m_c (g)	T_0 (°C)	T_1 (°C)	T_2 (°C)	t (s)
1000	377	23.8	11.5	24.9	60

$$\text{RF Output Power} = (4.187 \times 1000 \times (24.9 - 11.5) + 0.55 \times 377.0 \times (24.9 - 23.8)) / 60 = \underline{938.90} \text{ Watts}$$

P is the microwave power output, in watts;
 m_w is the mass of the water, in grams;
 m_c 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.

☐ 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 μ 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:

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 500 500 or more	25 25 $\times$ SQRT(power/500)	300 ¹ 300

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:

Serial Number:3NMF-1

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

$$LFS = 25 \times \text{SQRT}(925.63/500)$$

$$LFS = 34.02$$

Serial Number: 3NMF-2

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

$$LFS = 25 \times \text{SQRT}(938.90/500)$$

$$LFS = 34.26$$

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

Serial Number:3NMF-1

LFS μ V/m@300m	dB μ V/m@300m	dB μ V/m@3m
34.02	30.63	70.63

Serial Number: 3NMF-2

LFS μ V/m@300m	dB μ V/m@300m	dB μ V/m@3m
34.26	30.70	70.70

Note: Limit (dB μ V/m@3m) = Limit (dB μ V/m@300m) + 40(dB)

2. Operating Frequency Measurement

Environmental Conditions

Temperature:	22.3-22.5 °C
Relative Humidity:	51-52 %
ATM Pressure:	100.3 kPa
Test Engineer:	Max Tao
Test Date:	2026-06-28

2.1 Operating frequencies

According to FCC § 18.301, ISM equipment may be operated on any frequency above 9 kHz except as indicated in §18.303. The following frequency bands, in accordance with § 2.106 of the rules, are designated for use by ISM equipment:

Table 1 to § 18.301	
ISM frequency	Tolerance
6.78 MHz	± 15.0 kHz
13.56 MHz	± 7.0 kHz
27.12 MHz	± 163.0 kHz
40.68 MHz	± 20.0 kHz
915 MHz	± 13.0 MHz
2450 MHz	± 50.0 MHz
5800 MHz	± 75.0 MHz
24.125 GHz	± 125.0 MHz
61.25 GHz	± 250.0 MHz
122.50 GHz	± 500.0 MHz
245.00 GHz	± 1.0 GHz

2.2 Variation in Operating Frequency with Time

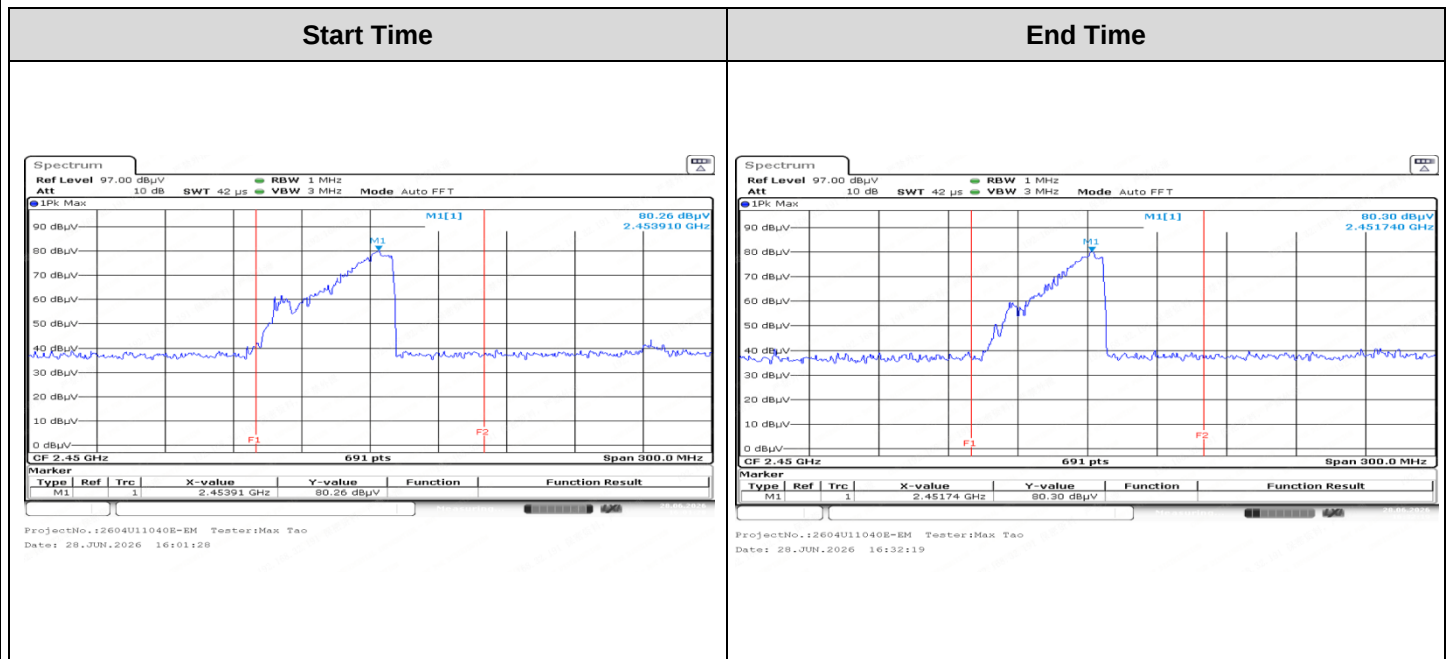
The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to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

The results of this test are as follows:

Serial Number:3NMF-1

Frequency at Start time (MHz)	Frequency at End time (MHz)
2453.91	2451.74

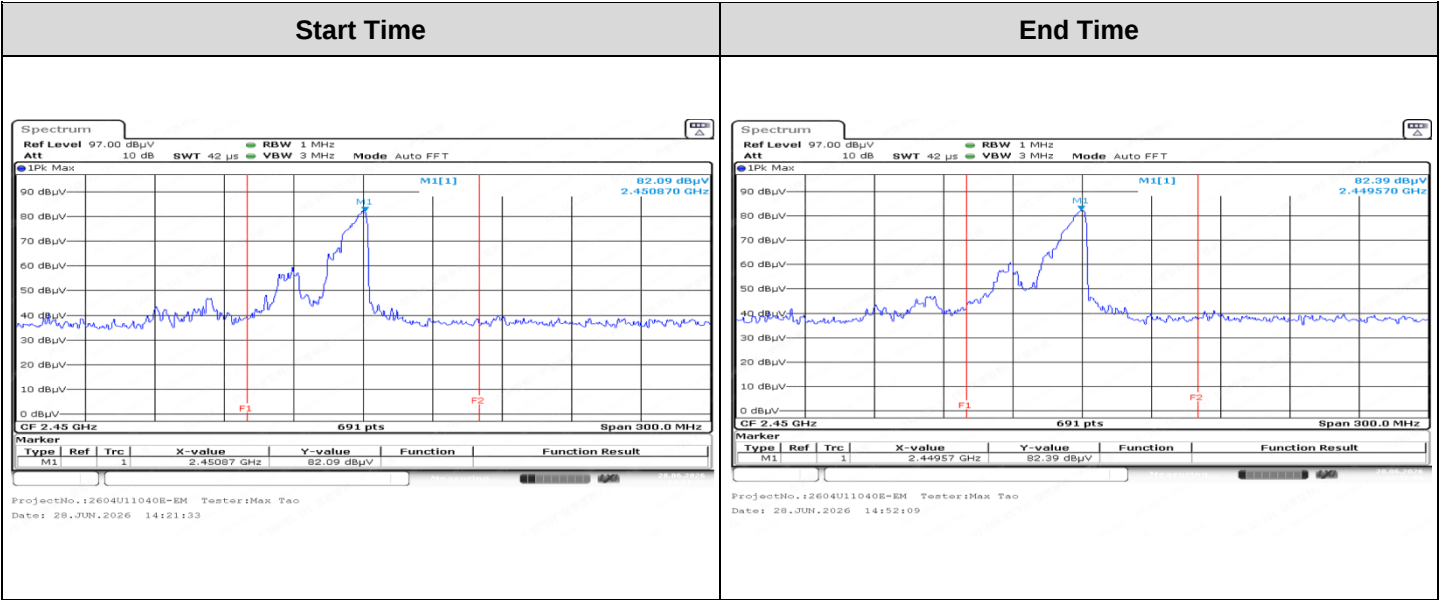
Refer to data pages for details of the variation in operating frequency with time measurement.



Serial Number:3NMF-2

Frequency at Start time (MHz)	Frequency at End time (MHz)
2450.87	2449.57

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



2.2 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.

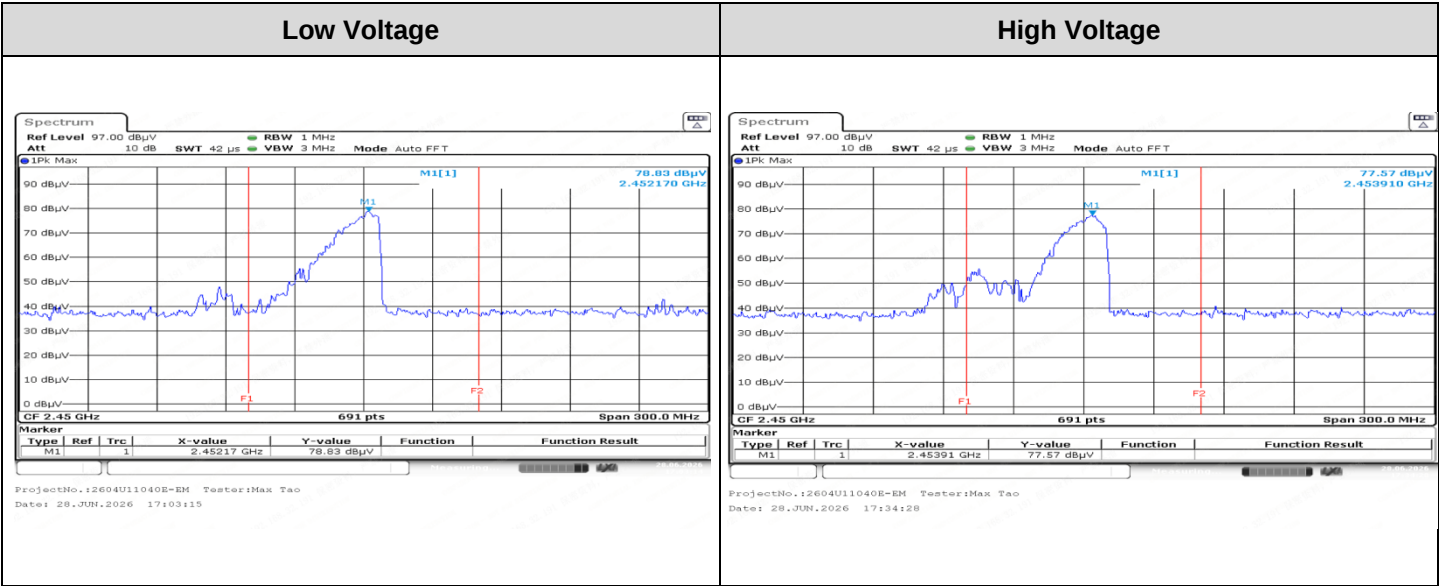
The results of this test are as follows:

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

Serial Number:3NMF-1

(Low voltage) Frequency (MHz)	(High voltage) Frequency (MHz)
2452.17	2453.91

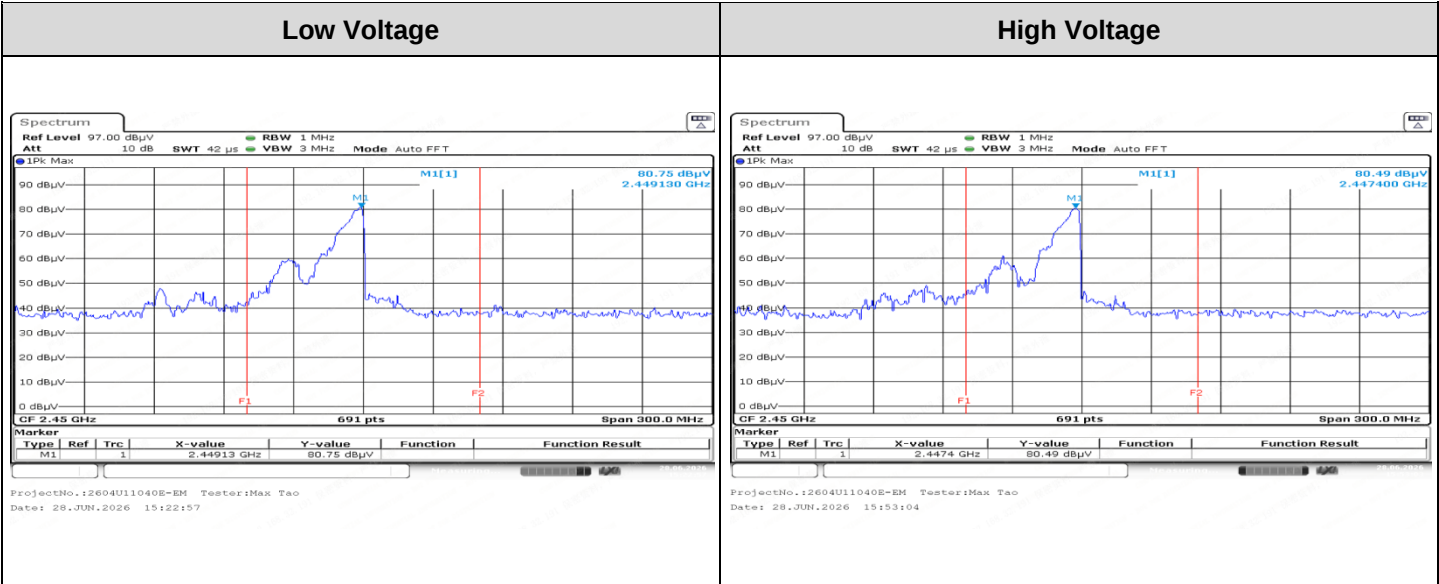
Please refer to following pages for details of the variation in operating frequency with line voltage measurement.



Serial Number: 3NMF-2

(Low voltage) Frequency (MHz)	(High voltage) Frequency (MHz)
2449.13	2447.40

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



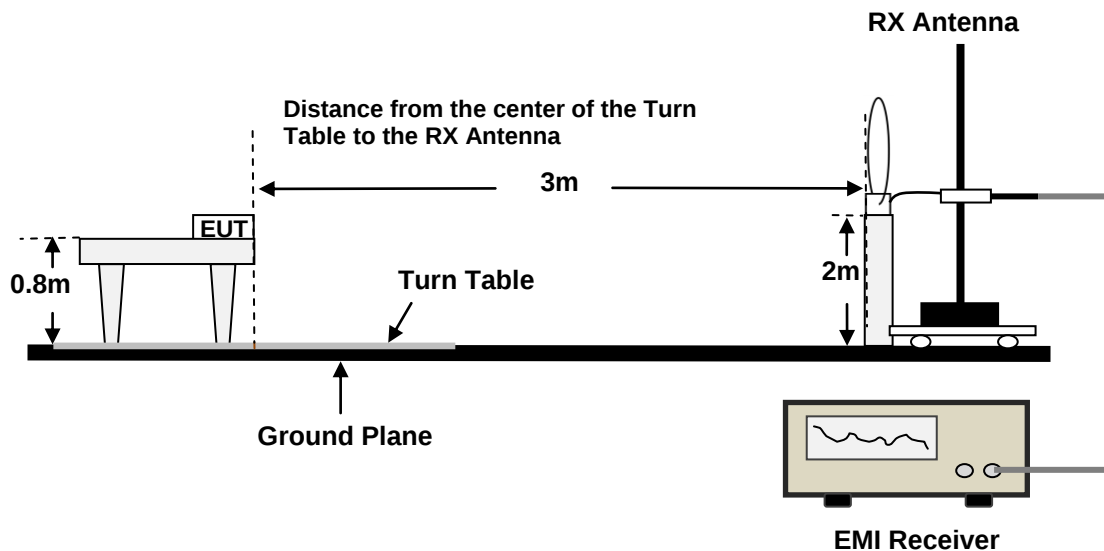
RADIATED EMISSIONS

Applicable Standard

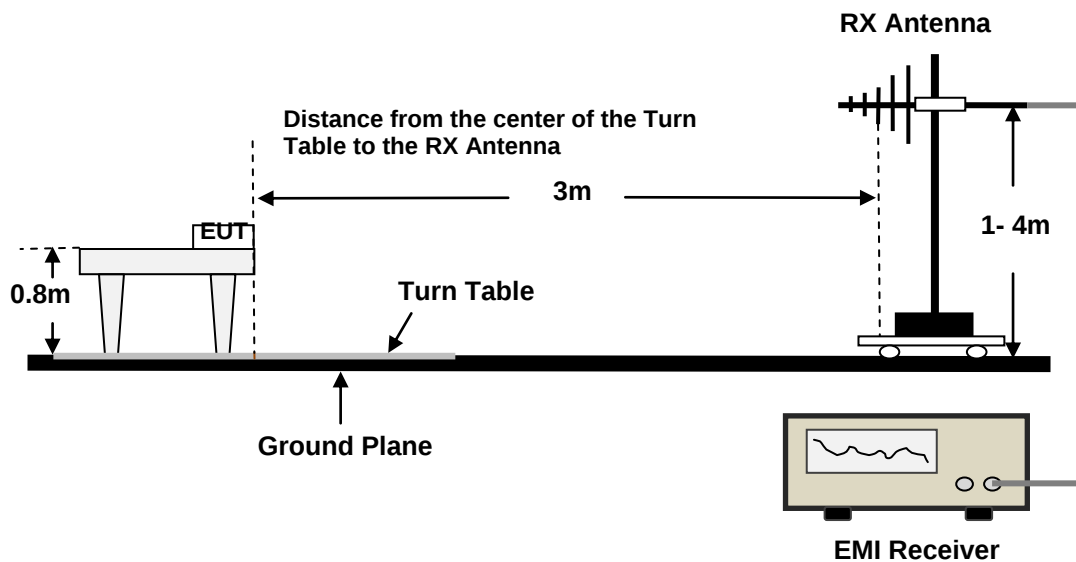
FCC §18.305 and FCC §18.309

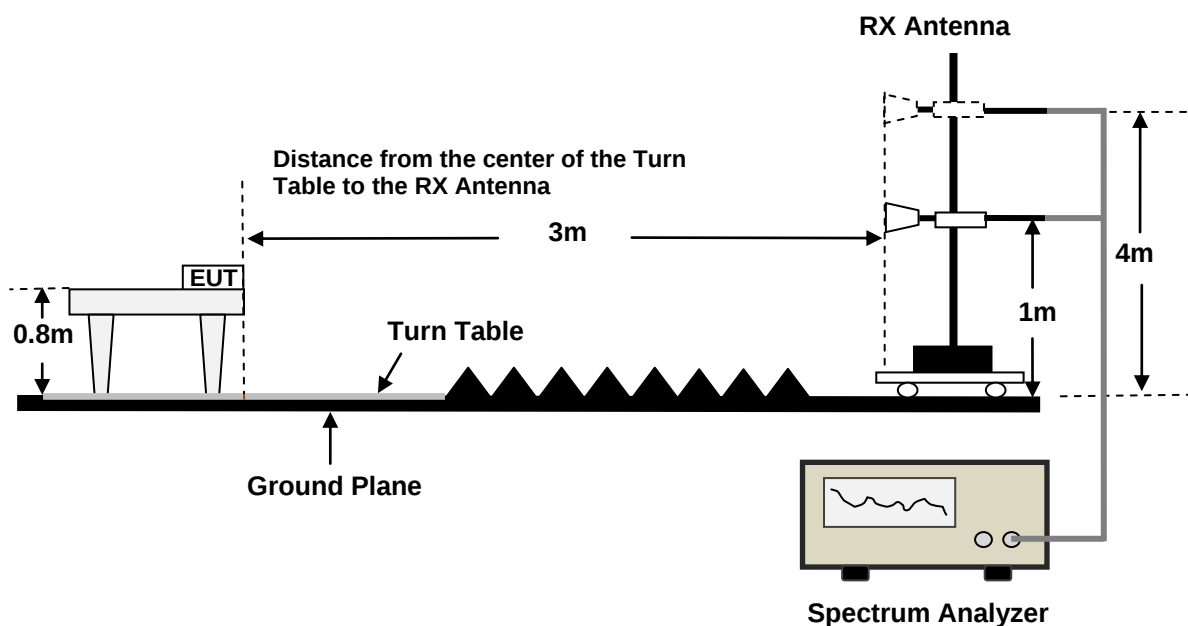
EUT Setup

9kHz - 30MHz:



30MHz - 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 9kHz to 25GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz -150 kHz	PK	300 Hz	1 kHz	/	PK
150 kHz - 30 MHz	PK	10 kHz	30 kHz	/	PK
30 MHz - 1000 MHz	PK	100 kHz	300 kHz	/	PK
	QP	/	/	120kHz	QP
Above 1GHz	PK	1 MHz	3 MHz	/	PK
	AV	1 MHz	10 Hz	/	PK

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

Test 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.

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

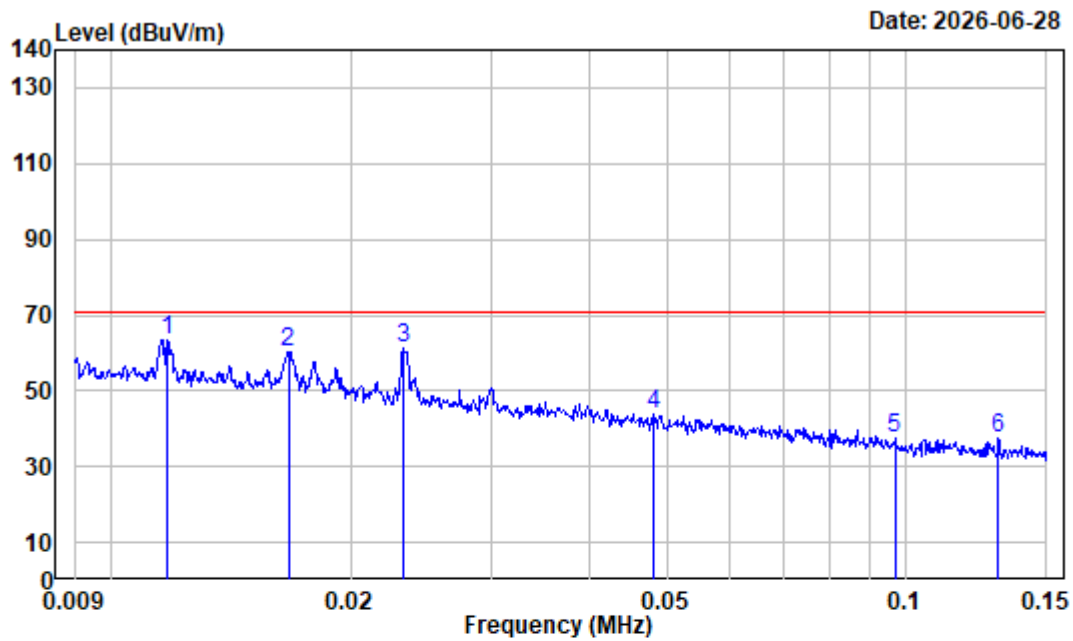
Test Data and Plots

Environmental Conditions

Temperature:	24.6-25.3 °C	25.2 °C
Relative Humidity:	52-54 %	53 %
ATM Pressure:	100.3 kPa	100.3 kPa
Test Engineer:	Jayden Luo	Max Tao
Test Date:	2026-06-28	2026-06-28
EUT Operation Mode:	Microwave (Maximum output power)	Microwave (Maximum output power)
Investigated Frequency Range:	Below 1GHz	Above 1GHz

Test Result: Compliance, please refer to the following data.

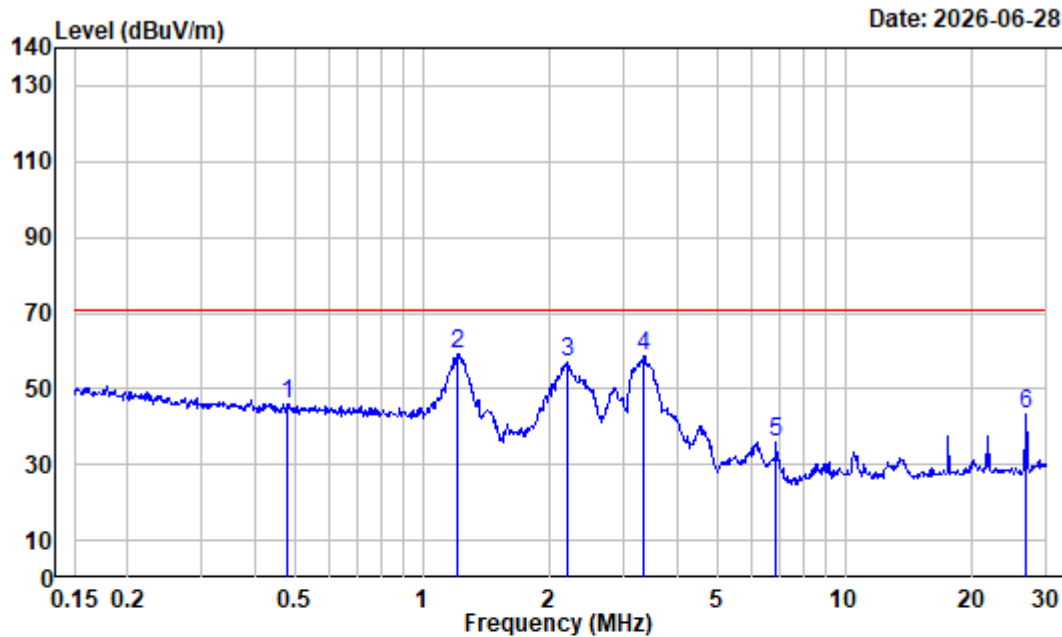
Serial Number:3NMF-1
Parallel
9kHz-150kHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Parallel Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:300Hz VBW:1kHz

	Freq		Read		Limit	Over	Remark
	Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	35.03	28.21	63.24	70.63	-7.39	Peak
2	0.017	32.85	27.40	60.25	70.63	-10.38	Peak
3	0.023	29.92	31.50	61.42	70.63	-9.21	Peak
4	0.048	23.22	20.37	43.59	70.63	-27.04	Peak
5	0.097	16.79	20.88	37.67	70.63	-32.96	Peak
6	0.131	15.05	22.46	37.51	70.63	-33.12	Peak

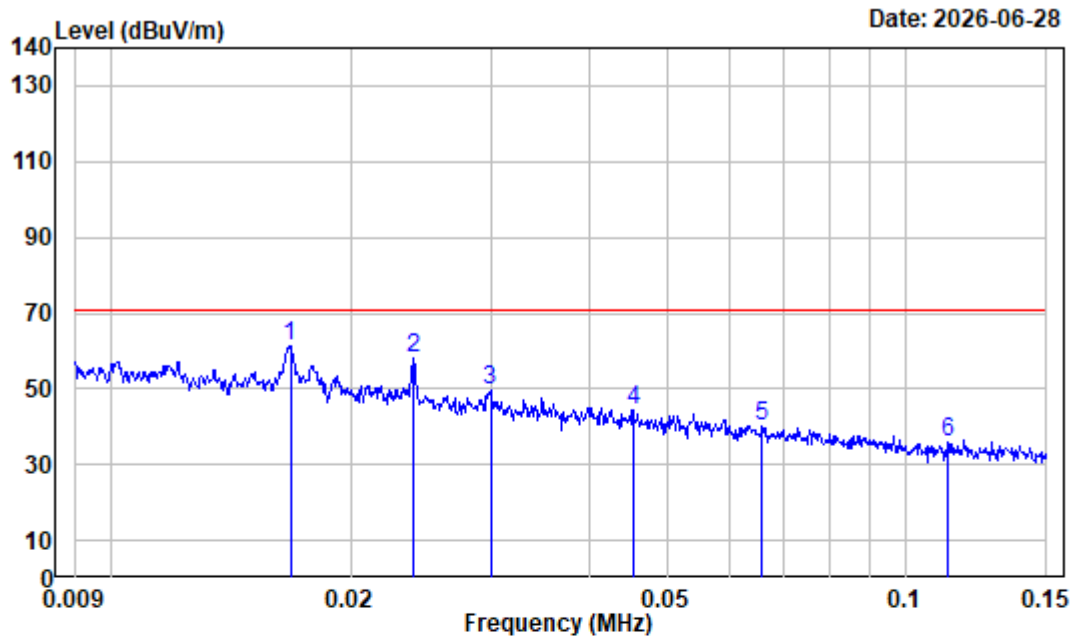
150kHz-30MHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Parallel Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:10kHz VBW:30kHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.476	3.78	42.39	46.17	70.63	-24.46	Peak
2	1.210	-2.58	61.82	59.24	70.63	-11.39	Peak
3	2.213	-5.48	62.47	56.99	70.63	-13.64	Peak
4	3.346	-5.99	64.73	58.74	70.63	-11.89	Peak
5	6.878	-5.99	41.70	35.71	70.63	-34.92	Peak
6	26.841	-3.22	46.61	43.39	70.63	-27.24	Peak

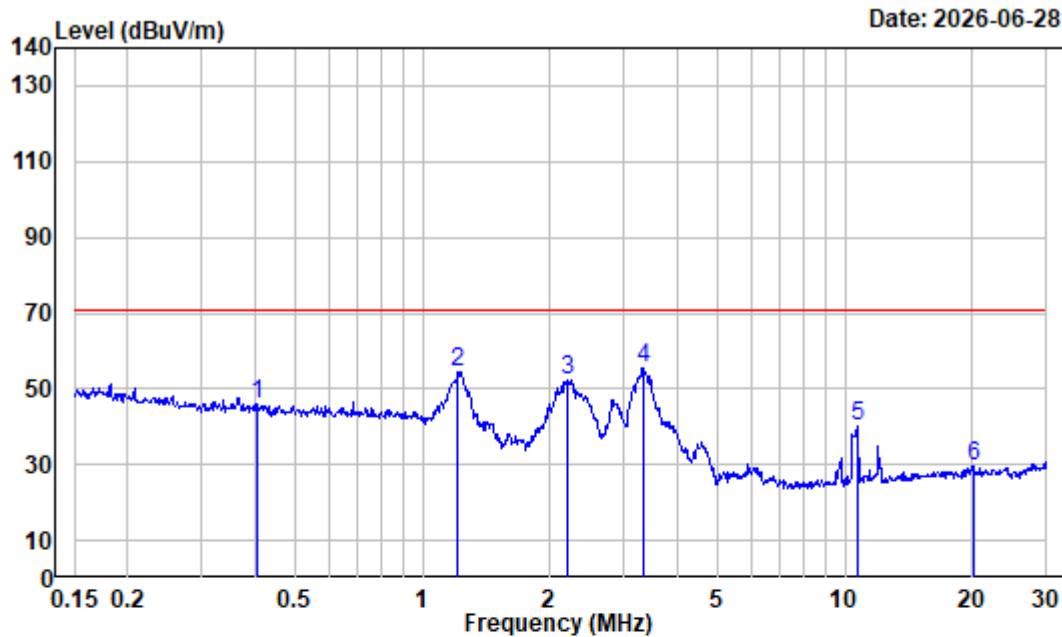
Perpendicular
9kHz-150kHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Perpendicular Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:300Hz VBW:1kHz

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.017	32.81	28.71	61.52	70.63	-9.11	Peak
2	0.024	29.60	28.37	57.97	70.63	-12.66	Peak
3	0.030	26.95	22.96	49.91	70.63	-20.72	Peak
4	0.045	23.77	20.50	44.27	70.63	-26.36	Peak
5	0.066	20.56	19.82	40.38	70.63	-30.25	Peak
6	0.113	15.87	19.83	35.70	70.63	-34.93	Peak

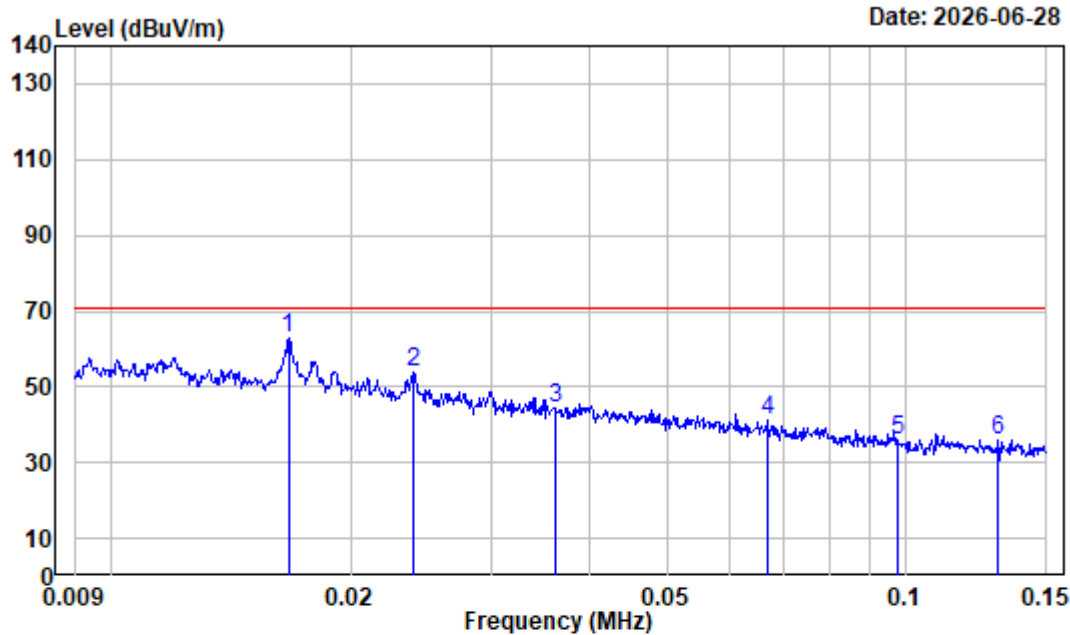
150kHz-30MHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Perpendicular Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:10kHz VBW:30kHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.408	5.11	40.72	45.83	70.63	-24.80	Peak
2	1.210	-2.58	57.21	54.63	70.63	-16.00	Peak
3	2.201	-5.47	57.75	52.28	70.63	-18.35	Peak
4	3.328	-5.98	61.27	55.29	70.63	-15.34	Peak
5	10.676	-5.18	45.10	39.92	70.63	-30.71	Peak
6	20.270	-3.36	32.95	29.59	70.63	-41.04	Peak

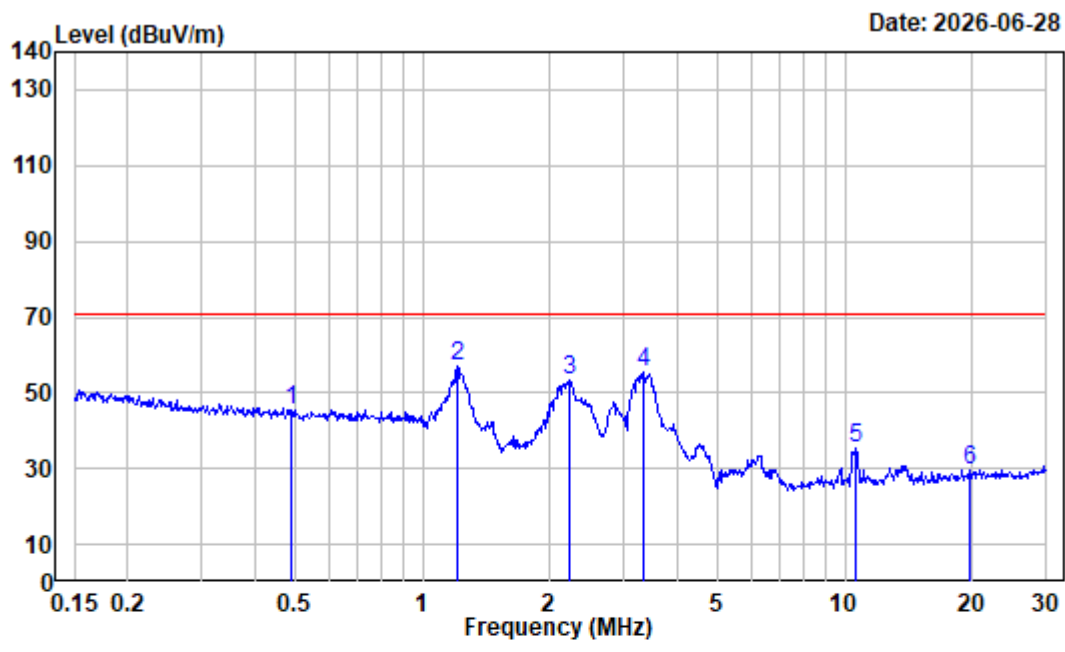
Ground-parallel
9kHz-150kHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Ground-parallel Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:300Hz VBW:1kHz

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.017	32.85	29.92	62.77	70.63	-7.86 Peak
2	0.024	29.60	24.49	54.09	70.63	-16.54 Peak
3	0.036	25.66	18.96	44.62	70.63	-26.01 Peak
4	0.067	20.40	20.85	41.25	70.63	-29.38 Peak
5	0.098	16.70	19.45	36.15	70.63	-34.48 Peak
6	0.131	15.05	20.99	36.04	70.63	-34.59 Peak

150kHz-30MHz



Site : chamber

Condition : 3m

Job No. : 2604U11040E-EM

Polarization : Ground-parallel

Test Mode : Microwave

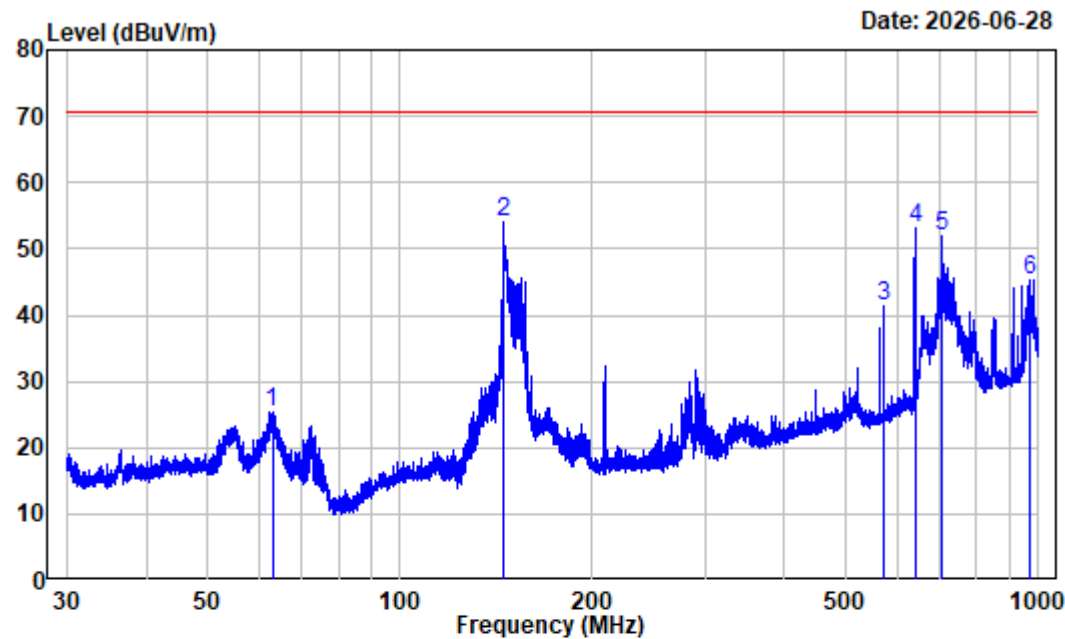
Receiver Setting: RBW:10kHz VBW:30kHz

Tester: Jayden Luo

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.489	3.52	41.84	45.36	70.63	-25.27	Peak
2	1.210	-2.58	59.50	56.92	70.63	-13.71	Peak
3	2.225	-5.48	58.67	53.19	70.63	-17.44	Peak
4	3.346	-5.99	61.42	55.43	70.63	-15.20	Peak
5	10.620	-5.20	40.39	35.19	70.63	-35.44	Peak
6	19.740	-3.42	32.88	29.46	70.63	-41.17	Peak

Below 1GHz

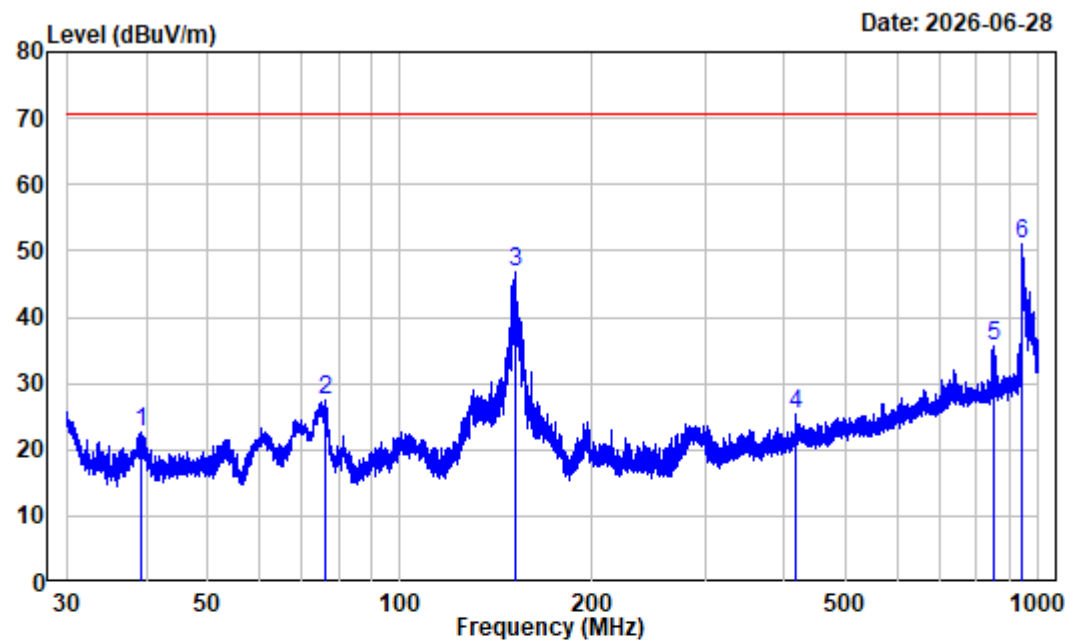
Horizontal



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2604U11040E-EM Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	63.036	-11.64	37.09	25.45	70.63	-45.18	Peak
2	145.032	-14.95	68.85	53.90	70.63	-16.73	Peak
3	572.614	-3.10	44.40	41.30	70.63	-29.33	Peak
4	644.272	-1.35	54.47	53.12	70.63	-17.51	Peak
5	705.771	-1.03	52.81	51.78	70.63	-18.85	Peak
6	972.764	2.49	42.78	45.27	70.63	-25.36	Peak

Vertical



Site : chamber

Condition : 3m VERTICAL

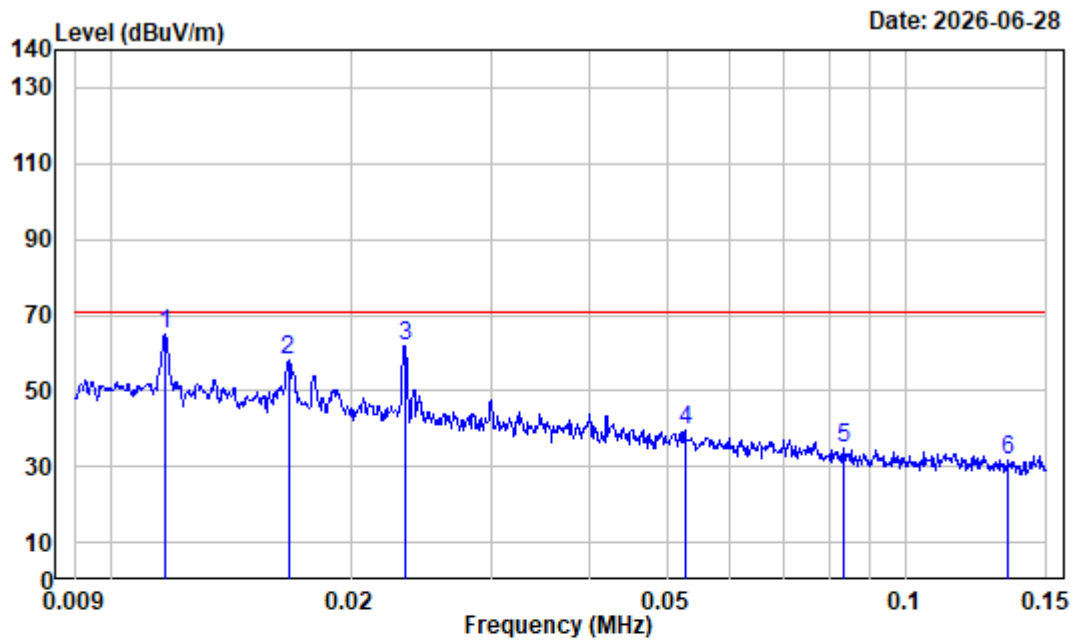
Job No. : 2604U11040E-EM Tester: Jayden Luo

Test Mode : Microwave

Receiver Setting: RBW:100kHz VBW:300kHz

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.162	-10.79	33.32	22.53	70.63	-48.10	Peak
2	76.144	-16.33	43.69	27.36	70.63	-43.27	Peak
3	151.597	-14.68	61.53	46.85	70.63	-23.78	Peak
4	417.275	-5.24	30.55	25.31	70.63	-45.32	Peak
5	850.662	1.07	34.57	35.64	70.63	-34.99	Peak
6	941.305	2.14	48.93	51.07	70.63	-19.56	Peak

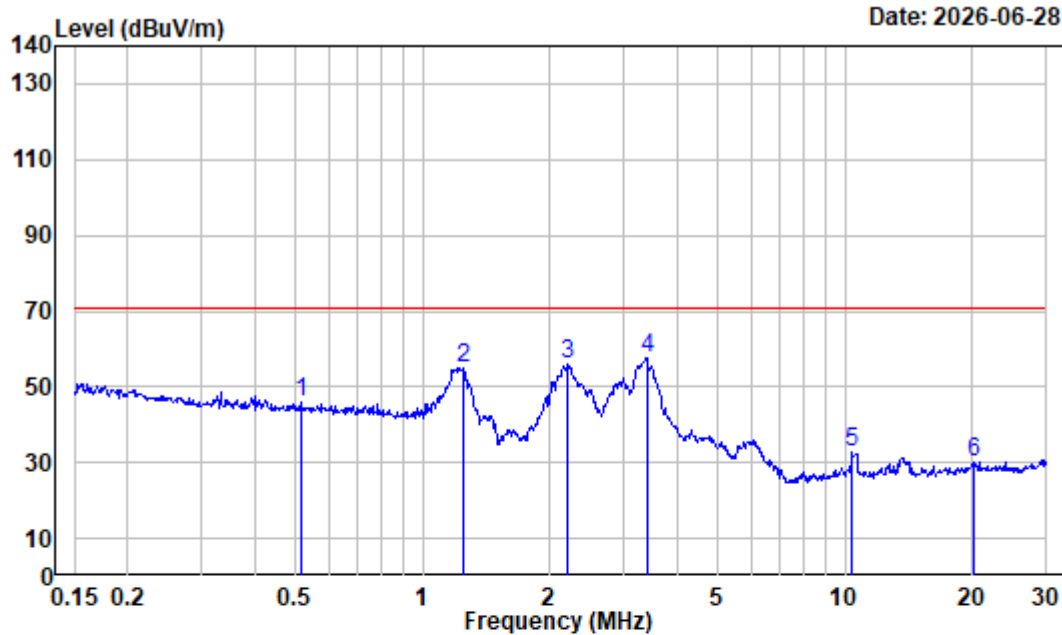
Serial Number: 3NMF-2
Parallel
9kHz-150kHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Parallel Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:300Hz VBW:1kHz

	Freq		Read		Limit	Over	Remark
	Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	35.06	29.89	64.95	70.70	-5.75	Peak
2	0.017	32.85	25.33	58.18	70.70	-12.52	Peak
3	0.023	29.87	32.00	61.87	70.70	-8.83	Peak
4	0.053	22.43	16.99	39.42	70.70	-31.28	Peak
5	0.084	18.16	16.88	35.04	70.70	-35.66	Peak
6	0.134	14.89	16.96	31.85	70.70	-38.85	Peak

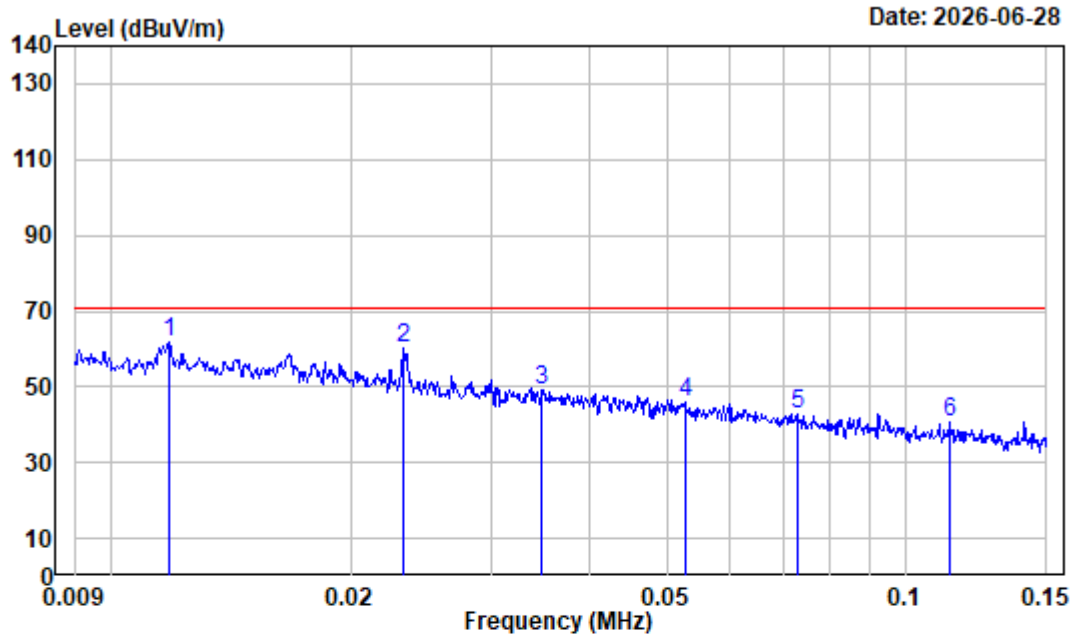
150kHz-30MHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Parallel Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:10kHz VBW:30kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.518	3.08	42.69	45.77	70.70	-24.93	Peak
2	1.255	-2.74	57.62	54.88	70.70	-15.82	Peak
3	2.213	-5.48	61.25	55.77	70.70	-14.93	Peak
4	3.399	-6.02	63.53	57.51	70.70	-13.19	Peak
5	10.397	-5.25	38.21	32.96	70.70	-37.74	Peak
6	20.270	-3.36	33.36	30.00	70.70	-40.70	Peak

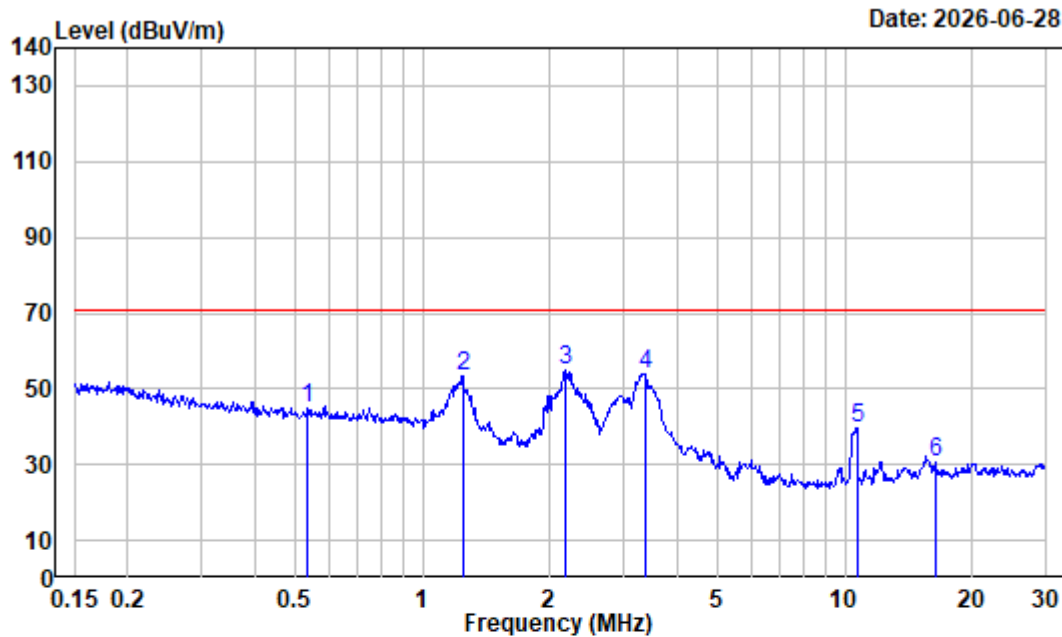
Perpendicular
9kHz-150kHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Perpendicular Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:300Hz VBW:1kHz

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.012	35.00	26.76	61.76	70.70	-8.94 Peak
2	0.023	29.90	30.22	60.12	70.70	-10.58 Peak
3	0.035	25.95	23.34	49.29	70.70	-21.41 Peak
4	0.053	22.43	23.43	45.86	70.70	-24.84 Peak
5	0.073	19.52	23.14	42.66	70.70	-28.04 Peak
6	0.114	15.83	24.68	40.51	70.70	-30.19 Peak

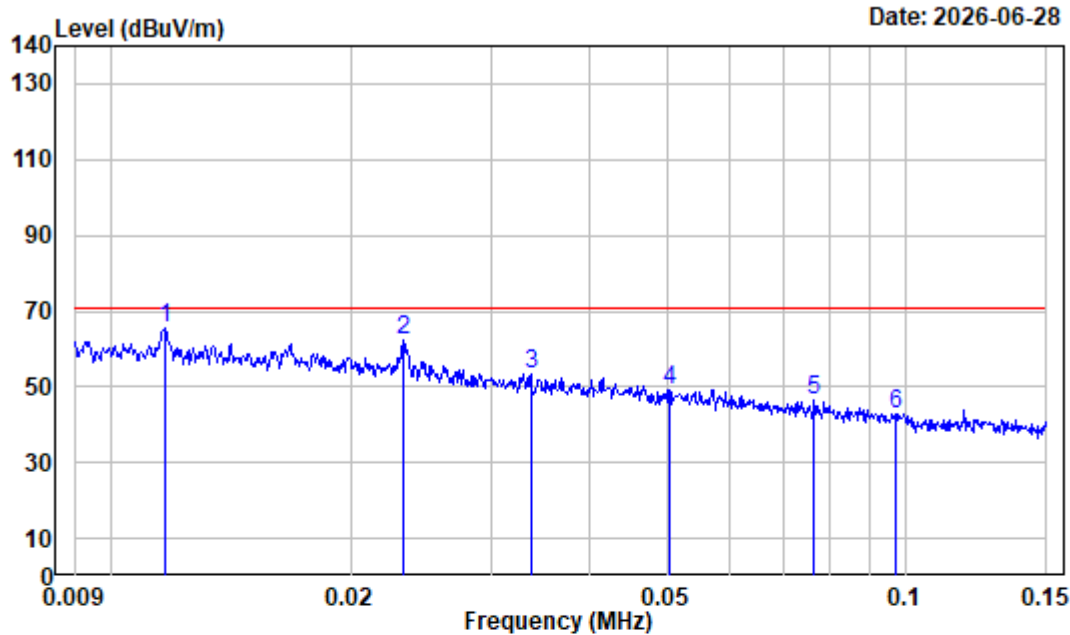
150kHz-30MHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Perpendicular Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:10kHz VBW:30kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.535	2.88	42.04	44.92	70.70	-25.78	Peak
2	1.249	-2.72	55.94	53.22	70.70	-17.48	Peak
3	2.178	-5.46	60.29	54.83	70.70	-15.87	Peak
4	3.381	-6.01	60.08	54.07	70.70	-16.63	Peak
5	10.676	-5.18	44.71	39.53	70.70	-31.17	Peak
6	16.486	-3.85	34.45	30.60	70.70	-40.10	Peak

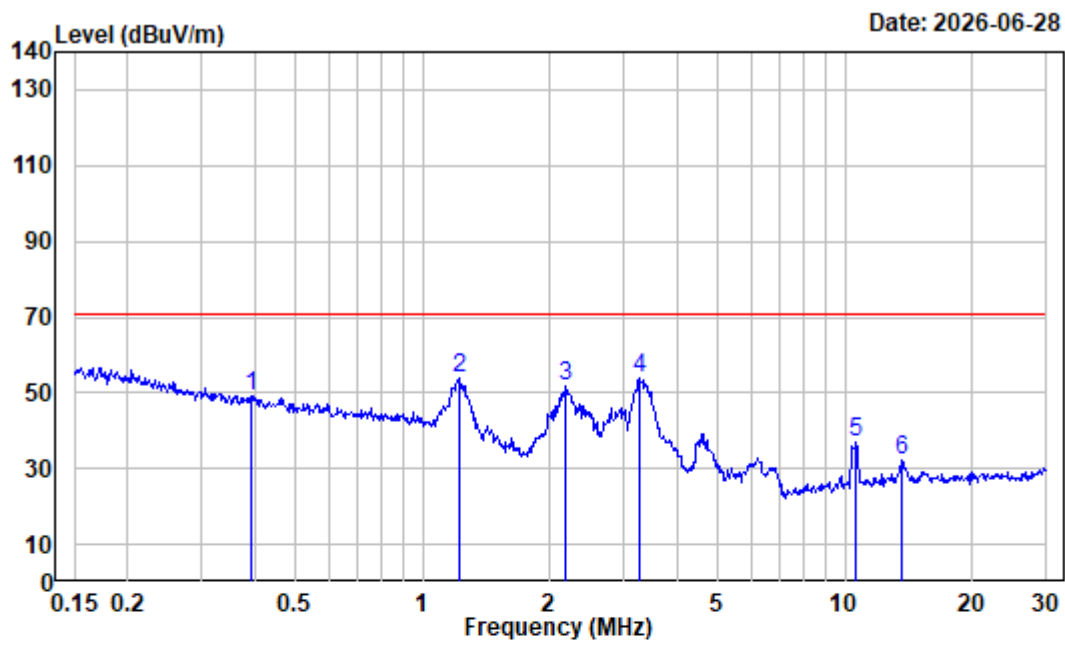
Ground-parallel
9kHz-150kHz



Site : chamber
Condition : 3m
Job No. : 2604U11040E-EM
Polarization : Ground-parallel Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:300Hz VBW:1kHz

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.012	35.08	30.24	65.32	70.70	-5.38 Peak
2	0.023	29.92	32.43	62.35	70.70	-8.35 Peak
3	0.034	26.17	27.40	53.57	70.70	-17.13 Peak
4	0.050	22.74	26.22	48.96	70.70	-21.74 Peak
5	0.077	19.02	27.61	46.63	70.70	-24.07 Peak
6	0.097	16.76	26.15	42.91	70.70	-27.79 Peak

150kHz-30MHz



Site : chamber

Condition : 3m

Job No. : 2604U11040E-EM

Polarization : Ground-parallel Tester: Jayden Luo

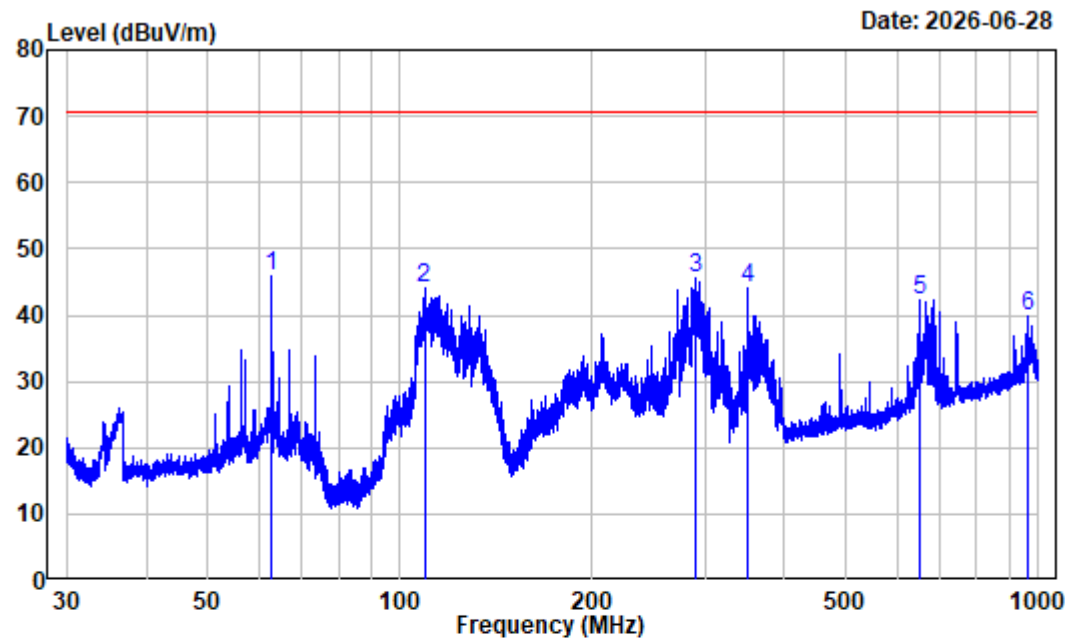
Test Mode : Microwave

Receiver Setting: RBW:10kHz VBW:30kHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.391	5.45	43.46	48.91	70.70	-21.79	Peak
2	1.223	-2.62	56.47	53.85	70.70	-16.85	Peak
3	2.190	-5.46	57.36	51.90	70.70	-18.80	Peak
4	3.276	-5.96	60.02	54.06	70.70	-16.64	Peak
5	10.620	-5.20	42.07	36.87	70.70	-33.83	Peak
6	13.623	-4.39	36.56	32.17	70.70	-38.53	Peak

Below 1GHz

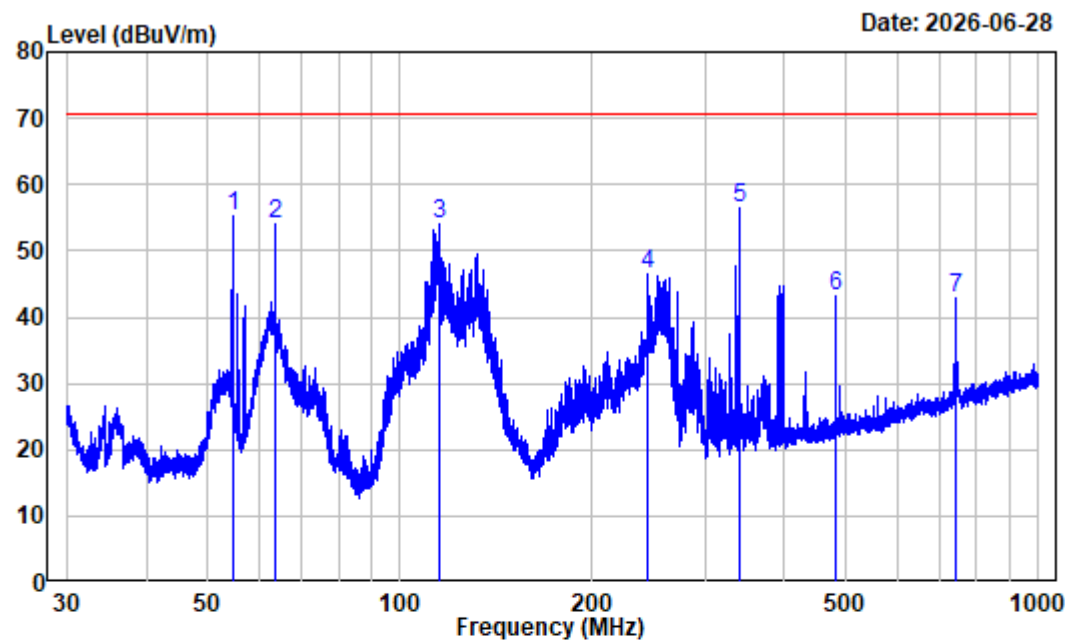
Horizontal



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2604U11040E-EM Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	62.816	-11.54	57.48	45.94	70.70	-24.76	Peak
2	109.124	-11.44	55.65	44.21	70.70	-26.49	Peak
3	291.291	-8.97	54.43	45.46	70.70	-25.24	Peak
4	349.403	-6.78	50.94	44.16	70.70	-26.54	Peak
5	652.800	-1.24	43.43	42.19	70.70	-28.51	Peak
6	961.319	2.33	37.47	39.80	70.70	-30.90	Peak

Vertical



Site : chamber
Condition : 3m VERTICAL
Job No. : 2604U11040E-EM Tester: Jayden Luo
Test Mode : Microwave
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV			
			dBuV/m	dBuV/m	dB	
1	54.595	-10.59	65.76	70.70	-15.53	Peak
2	63.843	-12.03	66.16	70.70	-16.57	Peak
3	115.119	-12.41	66.33	70.70	-16.78	Peak
4	244.554	-10.02	56.52	70.70	-24.20	Peak
5	340.931	-6.99	63.48	70.70	-14.21	Peak
6	480.738	-4.36	47.67	70.70	-27.39	Peak
7	742.910	-0.29	43.10	70.70	-27.89	Peak

1 GHz - 25 GHz:

Serial Number:3NMF-1

Frequency (MHz)	Measurement		Rx Antenna Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV					
700ml Water							
2391.88	40.01	AV	H	-10.94	29.07	70.63	-41.56
2394.00	41.10	AV	V	-10.96	30.14	70.63	-40.49
2515.13	46.93	AV	H	-10.95	35.98	70.63	-34.65
2532.13	46.87	AV	V	-10.87	36.00	70.63	-34.63
4255.50	46.33	AV	H	-8.17	38.16	70.63	-32.47
4253.38	47.20	AV	V	-8.18	39.02	70.63	-31.61
700ml Water (Second and third harmonic)							
4901.50	53.85	AV	H	-7.05	46.80	70.63	-23.83
4899.38	58.37	AV	V	-7.06	51.31	70.63	-19.32
7353.75	46.35	AV	H	-1.36	44.99	70.63	-25.64
7358.00	49.59	AV	V	-1.33	48.26	70.63	-22.37
300ml Water (Second and third harmonic)							
4912.13	51.88	AV	H	-6.98	44.90	70.63	-25.73
4910.00	57.27	AV	V	-7.00	50.27	70.63	-20.36
7372.88	53.25	AV	H	-1.23	52.02	70.63	-18.61
7368.63	57.78	AV	V	-1.26	56.52	70.63	-14.11

Serial Number: 3NMF-2

Frequency (MHz)	Measurement		Rx Antenna Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV					
700ml Water							
2394.00	45.24	AV	H	-10.96	34.28	70.70	-36.42
2372.75	46.39	AV	V	-10.80	35.59	70.70	-35.11
2549.13	47.44	AV	H	-10.79	36.65	70.70	-34.05
2532.12	49.14	AV	V	-10.87	38.27	70.70	-32.43
4368.13	43.65	AV	H	-7.70	35.95	70.70	-34.75
4383.00	46.18	AV	V	-7.64	38.54	70.70	-32.16
700ml Water (Second and third harmonic)							
4884.50	50.33	AV	H	-7.00	43.33	70.70	-27.37
4878.13	54.42	AV	V	-6.98	47.44	70.70	-23.26
7319.75	45.72	AV	H	-1.27	44.45	70.70	-26.25
7321.88	49.50	AV	V	-1.28	48.22	70.70	-22.48
300ml Water (Second and third harmonic)							
4890.88	48.46	AV	H	-7.03	41.43	70.70	-29.27
4888.75	52.64	AV	V	-7.02	45.62	70.70	-25.08
7336.75	44.66	AV	H	-1.33	43.33	70.70	-27.37
7334.63	49.07	AV	V	-1.32	47.75	70.70	-22.95

Note 1: Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

Note 2: Corrected Amplitude = Reading + Corrected Factor

Note 3: Margin = Corrected Amplitude – Limit

Note 4: The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2604U11040E-EM EUT External Photos and Attachment No.2 2604U11040E-EM EUT Internal Photos.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.3 2604U11040E-EM Test Photos.

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