

TEST REPORT



Test Report File No. : S25066-1 (2)

Date of Issue : 19 March, 2026

Type : Commercial Microwave Oven

Model No. : NE-2166

Applicant : Panasonic Corporation of North America

Address : Two Riverfront Plaza, Newark, New Jersey, United States 07102-5490

Manufacturer : Panasonic Corporation Living Appliance and Solutions Company

Address : 2-3-1-3, Nojihigashi, Kusatsu City, Shiga, 525-0058, Japan

Test Result Accord : ☒ **Positive** ☐ **Negative** to the standards at page 4

Approved by:

Reviewed by:

Naoto Ishibashi

Laboratory Director,
EMC Test Laboratory

Takamori Kimoto

Technical Manager,
EMC Test Laboratory

The test laboratory is not responsible for the data and information provided by the applicant, which may affect the validity of the results.

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

This test report shall not be reproduced in full or partial, without the written approval of the test laboratory.

This test report must not be used by the customer to claim product certification, approval, or endorsement by any agency of the U.S. Government.

This test report replaces already issued S25066-1 (1) (10 March, 2026).

Revision History

Revision	Test Report No.	Date	Description
-	S25066-1	19 January, 2026	Original Issue
(1)	S25066-1 (1)	10 March, 2026	Page 1: The applicant and manufacturer have been corrected. Page 6: Added "Test Firm Registration Number" and "Designation Number" to the "Test Site Description". Page 8: The applicant have been corrected. Added EUT Categorized to the identification of EUT A.
(2)	S25066-1 (2)	19 March, 2026	Page 40: Added "Appendix B External Photographs".

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(*) Data and information are provided by the applicant.
The information on the cover and data is also provided by the customer.

Definitions for Symbols used in this Test Report

Black box indicates (■) that the listed condition, standard, or equipment was applicable for this Report.

Blank box indicates (□) that the listed condition, standard, or equipment was not applicable for this Report.

Test Standards

The tests were performed according to the following standards:

- FCC Part 18 Subpart C Industrial, Scientific, and Medical Equipment
- FCC / OST MP-5 : 1986 - Test Procedure.

Deviation From The Standards

Deviations from or additions to the test method: No deviation or addition

Purpose

The purpose of this report is to show compliance of the Commercial Microwave Oven / Model NE-2166 to the requirement of Part 18 of the FCC Rules and Regulations (47 CFR, PART 18, Subpart C).

Requirement

The test requirements are as follows.

Field strength limits (FCC Part 18, 18.305)

The measured output power was found to be more than 500 W (see 6.3). Therefore, in accordance with Section 18.305 of Subpart C, the measured out-of-band emissions were compared with the limit calculated as following:

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

• AC 208 V / 60 Hz

$$\text{LFS} = 25 * \text{SQRT} (1808.5 / 500)$$

$$\text{LFS} \approx 47.546 \mu\text{V/m}$$

• AC 240 V / 60 Hz

$$\text{LFS} = 25 * \text{SQRT} (1829.6 / 500)$$

$$\text{LFS} \approx 47.823 \mu\text{V/m}$$

Where: LFS is the maximum allowable field strength for out-of-band emissions in $\mu\text{V/m}$ at a 300 m measurement distance. Power Output is the measure output power in watts.

1st Limit

Test Voltage	Limit at 300 m [$\mu\text{V/m}$]	Limit at 300 m [$\text{dB}\mu\text{V/m}$]	Limit at 3 m [$\text{dB}\mu\text{V/m}$]
AC 208 V / 60 Hz	47.546	33.542	73.542
AC 240 V / 60 Hz	47.823	33.593	73.593

2nd Limit

Limit at 1600 m [$\mu\text{V/m}$]	Limit at 1600 m [$\text{dB}\mu\text{V/m}$]	Limit at 3 m [$\text{dB}\mu\text{V/m}$]
10.000	20.000	74.540

Frequency measurements (OST MP-5, Sec. 4.5)

Measurements are made of:

(a) The variation of frequency with time, using the load specified in Section 4.1 (OST MP-5), starting with the EUT and load at room temperature and continuing until the load quantity has been reduced by evaporation to approximately 20% of the original quantity.

This test is made with nominal rated AC supply voltage.

(b) The variation of frequency for line voltage variation from 80 % to 125 % of nominal rated voltage, starting with the EUT warm from at least 10 minutes use, with a load as specified in Section 4.1 (OST MP-5), and with this load at room temperature at the beginning of the test.

Summary

◆ General Remarks:

-The tests were all good result.

◆ The Equipment Under Test:

- Fulfill the general approval requirements cited on page 4.
- Not fulfill the general approval requirements cited on page 4.

EUT received date : 12 December, 2025

Testing Start Date : 17 December, 2025

Testing End Date : 5 January, 2026

◆ Final Judgment:

The requirements according to the technical regulations and tested operation modes are

- MET.
- NOT MET.

•AC 208 V / 60 Hz

	Frequency Range (MHz)	Minimum Margin (μV/m)	Detector
Radiated Emission	0.009 - 30	46.398	AV
	30 - 1000	47.494	AV
	1000 - 25000	10.818	AV
Remark: Port applicable to test : Refer to "Operation of the EUT during Testing " .			

•AC 240 V / 60 Hz

	Frequency Range (MHz)	Minimum Margin (μV/m)	Detector
Radiated Emission	0.009 - 30	46.607	AV
	30 - 1000	47.766	AV
	1000 - 25000	24.109	AV
Remark: Port applicable to test : Refer to "Operation of the EUT during Testing " .			

◆ Test Site Description:

This testing was performed at following site:

Name of the Test Site : Panasonic Holdings Corporation, Product Analysis Center, EMC Test Laboratory
Sasayama EMC Site

Address : 231-1 Yashiro, Tamba Sasayama City, Hyogo, 669-2356 Japan

TEL : +81(79) 552-5681

FAX : +81(79) 552-5682

Sasayama EMC Site is accredited by The Japan Accreditation Board for Conformity Assessment (JAB)
for the specific scope of accreditation under Lab. Certificate No. : RTL02730

Test Firm Registration Number:536635

Designation Number: JP5177

Environmental Conditions

See each Test Data.

Measurement Uncertainty

The data and results referenced in this document are true and accurate. The test results are traceable to the National or International Standards.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

- Measurement instrumentation uncertainty was “not” taken into account in the determination of compliance.
- Measurement instrumentation uncertainty was taken into account in the determination of compliance.

Our laboratory quotes measurement uncertainty as follows.

Radiated Emission (Electric Field) :

0.009 MHz - 30 MHz (0.6 m Loop antenna)	3 m distance	± 3.8 dB
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Radiated Emissions (Below 1 GHz : Electric Field) : 10 m Anechoic Chamber

30 MHz - 200 MHz (Biconical Antenna)	3 m distance	Horizontal	± 3.3 dB
		Vertical	± 3.3 dB
200 MHz - 1000 MHz (Logperiodic Antenna)	3 m distance	Horizontal	± 3.1 dB
		Vertical	± 3.2 dB

Radiated Emissions (Above 1 GHz : Electric Field) :

1 GHz - 6 GHz (Horn Antenna)	3 m distance	± 5.2 dB
6 GHz - 18 GHz (Horn Antenna)	3 m distance	± 5.1 dB
18 GHz - 40 GHz (Horn Antenna)	3 m distance	± 5.1 dB

Equipment under Test*

◆ Applicant

Company Name : Panasonic Corporation of North America

Address : Two Riverfront Plaza, Newark, New Jersey, United States 07102-5490

◆ Identification of EUT A

Type	: Commercial Microwave Oven	Rated Voltage	: AC 208, 240 V / 60 Hz
Model	: NE-2166	Rated Power	: 2970 W
Serial No	: FES001	Protection class	: Class I
Operating Frequency	: 2450 MHz $\pm$ 50 MHz	Dimensions	: 422 x 508 x 337
Firmware Version	: FES	W x D x H (mm)	
Software Version	: -	EUT Categorized	: non-consumer equipment

Equipment authorization : Supplier's Declaration of Conformity FCC ID : ACLAP3L41

◆ Source of Interference & Internal Frequencies : Highest Frequency 2450 $\pm$ 50 MHz

Clock Source	Frequency (MHz)	Clock Source	Frequency (MHz)
Oscillator	: 8	Magnetron	: 2450 $\pm$ 50
Microcomputer AU	: 8	SMPS (24V)	: 0.025 - 0.095
Inverter	: 0.02 - 0.05	SMPS (12V)	: 0.132

◆ Noise Suppression Components

Inside

X-Capacitor: 2.2 μ F x 3

Y-Capacitor: 3300 pF x 2

Common mode choke: 0.9 mH + 4 mH

Ferrite: Power supply cord is inserted in to the core

Outside

-

◆ Measures for Electromagnetic Shielding

Enclosure

Operation of the EUT during Testing*

◆ Modification of the EUT

The test laboratory did not modify the EUT during the test.

◆ Power Supply System Utilized

Power supply system : AC 208 V / 60 Hz 1φ
AC 240 V / 60 Hz 1φ

◆ Operation mode of the EUT

The equipment under test was operated during the measurement under the following conditions.
Refer to “ Details of Ports “ and “ Block diagram of the equipment under test (EUT) “ for all relevant ports.

- High Power Mode: 2100 W

◆ Description of EUT:

Symbol	Type	Model	Serial No.	Manufacturer	EUT condition
A	Commercial Microwave Oven	NE-2166	FES001	Panasonic	Pre-Production

EUT A :

Operating frequency : 2450 MHz
Type of Magnetron : 2M261
Door Seal Type : Choke
Employed mode : Stirre

◆ Information for the Similar Model

NE-2166* (*suffix: 1APR, 3APR, CPR)

The following interface cables and the peripheral devices were connected during the measurement:

◆Power Cables

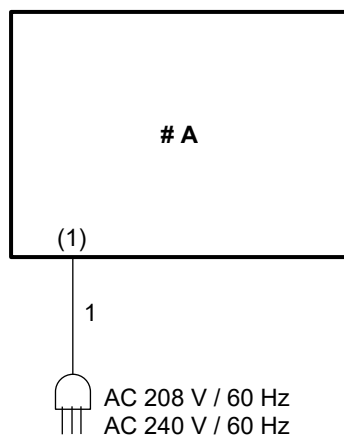
No.	Name of Cable	Pin	Length (m)	Shield	Ferrite Quantity	Ground Line
	Model / Manufacturer					
1	AC Power Cord for EUT A SJT / WELL SHIN	3	1.5	Unshielded	None	Yes

◆Details of ports

Port No.	Name of port	Remarks
(1)	AC IN	EUT/AC

◆ Block diagram of the EUT

·High Power Mode: 2100 W



Test Results and Conditions

Radiated Emission (9 kHz - 30 MHz : Electric Field)

The measurement of the Radiated Emission (9 kHz - 30 MHz : Electric Field) in the frequency range 9 kHz - 30 MHz was performed in horizontal and vertical antenna position according to FCC Part 18 at:

Test Location:

- 10 m anechoic chamber

Test Distance:

- 3 m (with a 0.6 m loop antenna)

Test Volume:

- ϕ 0.66 m

Data of Test Environmental Conditions: Refer to Test Data

Lists of the Test Equipment: Refer to Appendix A

The requirements are

■ MET

□ NOT MET

• AC 208 V / 60 Hz

Min. limit margin 46.398 μ V/m at 0.0360 MHz
(AV detector receiver with 0 deg antenna polarization)

• AC 240 V / 60 Hz

Min. limit margin 46.607 μ V/m at 0.0400 MHz
(AV detector receiver with 45 deg antenna polarization)

Min. limit margin 46.607 μ V/m at 0.0400 MHz
(AV detector receiver with 135 deg antenna polarization)

Description of calculation

9 kHz to 30 MHz

Calculation Formula to get field strength at 300 m from the measured at 3 m.

Calculation Formula:

Result at 300 m [μ V/m]
 $= 10^{\{(Emission\ Level\ at\ 3\ m\ [dB\mu V/m]) / 20\}} * (3/300)^2$

Example: Frequency 0.0360 MHz,

Result at 3 m 81.2 dB μ V/m

Result at 300 m [μ V/m]
 $= 10^{(81.2 / 20)} * (3/300)^2$
 $= 1.148\ \mu$ V/m

Remarks: Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Test Data

Test Condition of Instrument

Resolution Bandwidth : 200 Hz (9 kHz to 150 kHz)
9 kHz (150 MHz to 30 MHz)

EUT Warm-up Time: 10 minutes

Date: 23 December, 2025

Environment: 18 deg.C / 29 % / 1002 hPa

Detector Function : Average
Test Mode : High Power Mode: 2100 W

Test Voltage : AC 208 V / 60Hz
Load : 1750 ml Center

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 300 m [dBμV/m]	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
0.0240	0	49.2	19.7	68.9	-11.1	0.279	47.546	47.267	200	0
0.0360	0	61.5	19.7	81.2	1.2	1.148	47.546	46.398	200	102
0.0720	0	46.4	19.6	66	-14.0	0.200	47.546	47.346	200	97
0.1500	0	28.4	19.5	47.9	-32.1	0.025	47.546	47.521	200	137
0.0240	45	49.4	19.7	69.1	-10.9	0.285	47.546	47.261	200	137
0.0360	45	59.6	19.7	79.3	-0.7	0.923	47.546	46.623	200	217
0.0720	45	45.1	19.6	64.7	-15.3	0.172	47.546	47.374	200	232
0.1500	45	26.9	19.5	46.4	-33.6	0.021	47.546	47.525	200	118
0.0240	90	46.9	19.7	66.6	-13.4	0.214	47.546	47.332	200	79
0.0360	90	57.3	19.7	77	-3.0	0.708	47.546	46.838	200	153
0.0720	90	43.5	19.6	63.1	-16.9	0.143	47.546	47.403	200	153
0.1500	90	24.2	19.5	43.7	-36.3	0.015	47.546	47.531	200	76
0.0240	135	46.7	19.7	66.4	-13.6	0.209	47.546	47.337	200	0
0.0360	135	60.2	19.7	79.9	-0.1	0.989	47.546	46.557	200	129
0.0720	135	46.2	19.6	65.8	-14.2	0.195	47.546	47.351	200	129
0.1500	135	27.5	19.5	47.0	-33.0	0.022	47.546	47.524	200	144
0.0240	Z	49.4	19.7	69.1	-10.9	0.285	47.546	47.261	200	136
0.0360	Z	59.2	19.7	78.9	-1.1	0.881	47.546	46.665	200	108
0.0720	Z	44.1	19.6	63.7	-16.3	0.153	47.546	47.393	200	108
0.1500	Z	26.3	19.5	45.8	-34.2	0.019	47.546	47.527	200	133

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB]

Result at 3 m [dBμV/m] = Reading at 3 m [dBμV] + Factor [dB(1/m)]

Result at 300 m [dBμV/m] = Result at 3 m [dBμV/m] + 40log(3/300) [dB]

Test Condition of Instrument
Resolution Bandwidth : 200 Hz (9 kHz to 150 kHz)
9 kHz (150 MHz to 30 MHz)

EUT Warm-up Time: 10 minutes
Date: 23 December, 2025
Environment: 18 deg.C / 29 % / 1002 hPa

Detector Function : Average
Test Mode : High Power Mode: 2100 W

Test Voltage : AC 240 V / 60Hz
Load : 1750 ml Center

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 300 m [dBμV/m]	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
0.0270	0	49.3	19.7	69	-11.0	0.282	47.823	47.541	200	168
0.0400	0	61.5	19.7	81.2	1.2	1.148	47.823	46.675	200	118
0.0800	0	44.4	19.6	64	-16.0	0.158	47.823	47.665	200	84
0.1610	0	35.9	19.5	55.4	-24.6	0.059	47.823	47.764	200	118
0.0270	45	47.6	19.7	67.3	-12.7	0.232	47.823	47.591	200	157
0.0400	45	62	19.7	81.7	1.7	1.216	47.823	46.607	200	223
0.0800	45	44.5	19.5	64	-16.0	0.158	47.823	47.665	200	74
0.1610	45	34.3	19.5	53.8	-26.2	0.049	47.823	47.774	200	88
0.0270	90	46.2	19.7	65.9	-14.1	0.197	47.823	47.626	200	91
0.0400	90	58.6	19.7	78.3	-1.7	0.822	47.823	47.001	200	187
0.0800	90	42.7	19.6	62.3	-17.7	0.130	47.823	47.693	200	168
0.1610	90	33.4	19.5	52.9	-27.1	0.044	47.823	47.779	200	185
0.0270	135	46.8	19.7	66.5	-13.5	0.211	47.823	47.612	200	37
0.0400	135	62	19.7	81.7	1.7	1.216	47.823	46.607	200	139
0.0800	135	44.9	19.5	64.4	-15.6	0.166	47.823	47.657	200	137
0.1610	135	34.6	19.5	54.1	-25.9	0.051	47.823	47.772	200	152
0.0270	Z	47.1	19.7	66.8	-13.2	0.219	47.823	47.604	200	139
0.0400	Z	57.4	19.7	77.1	-2.9	0.716	47.823	47.107	200	107
0.0800	Z	40.8	19.6	60.4	-19.6	0.105	47.823	47.718	200	104
0.1610	Z	33.1	19.5	52.6	-27.4	0.043	47.823	47.780	200	122

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB]
Result at 3 m [dBμV/m] = Reading at 3 m [dBμV] + Factor [dB(1/m)]
Result at 300 m [dBμV/m] = Result at 3 m [dBμV/m] + 40log(3/300) [dB]

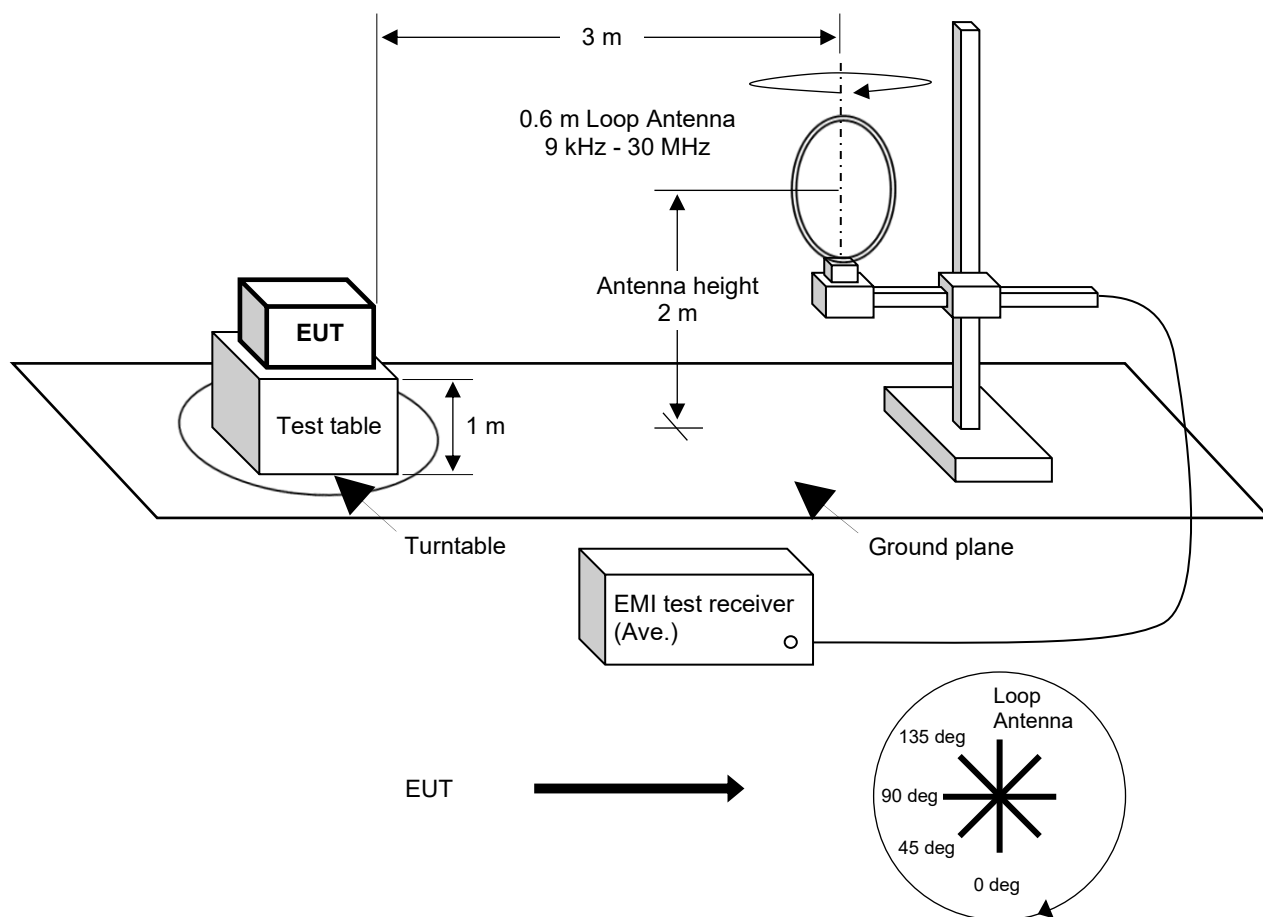
Photo of the Test Set-up

Pre-check : A loop antenna was set at a height of 2 m and a level with a small margin of Vertical axis (0° , 45° , 90° , 135°) and Horizontal Axis was measured using a spectrum analyzer.

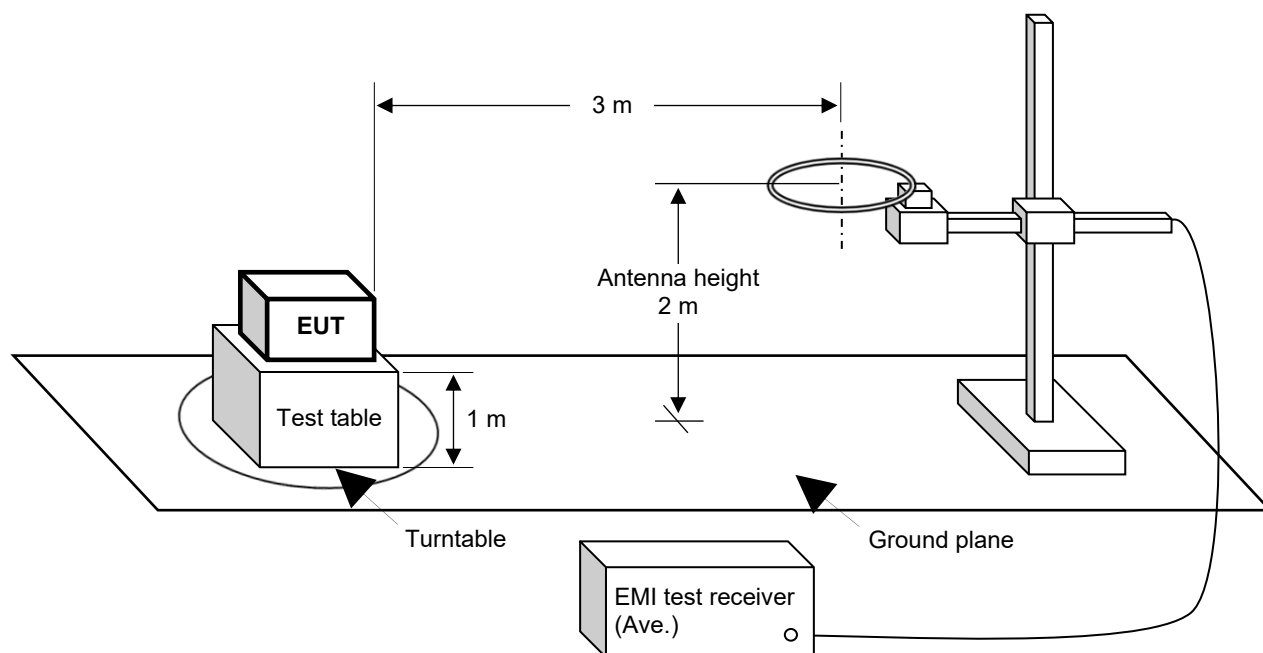
Final measurement : Emission levels (Ave. value) were measured by means of the test receiver referring the result of Pre-check.

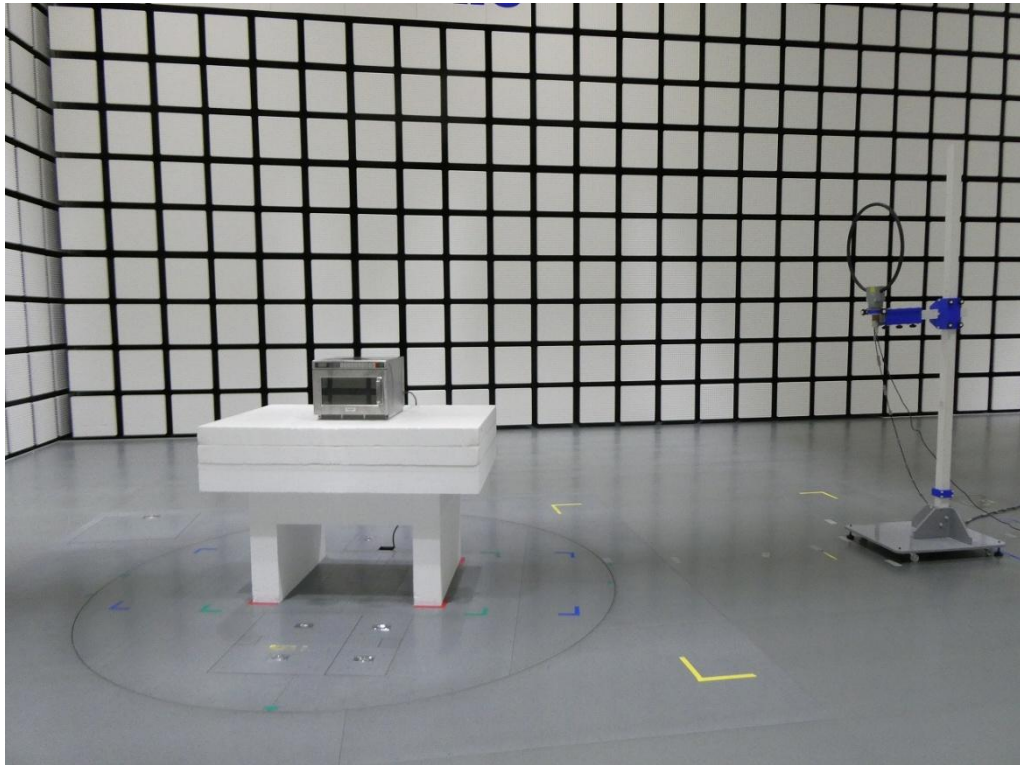
Drawing:

Vertical axis

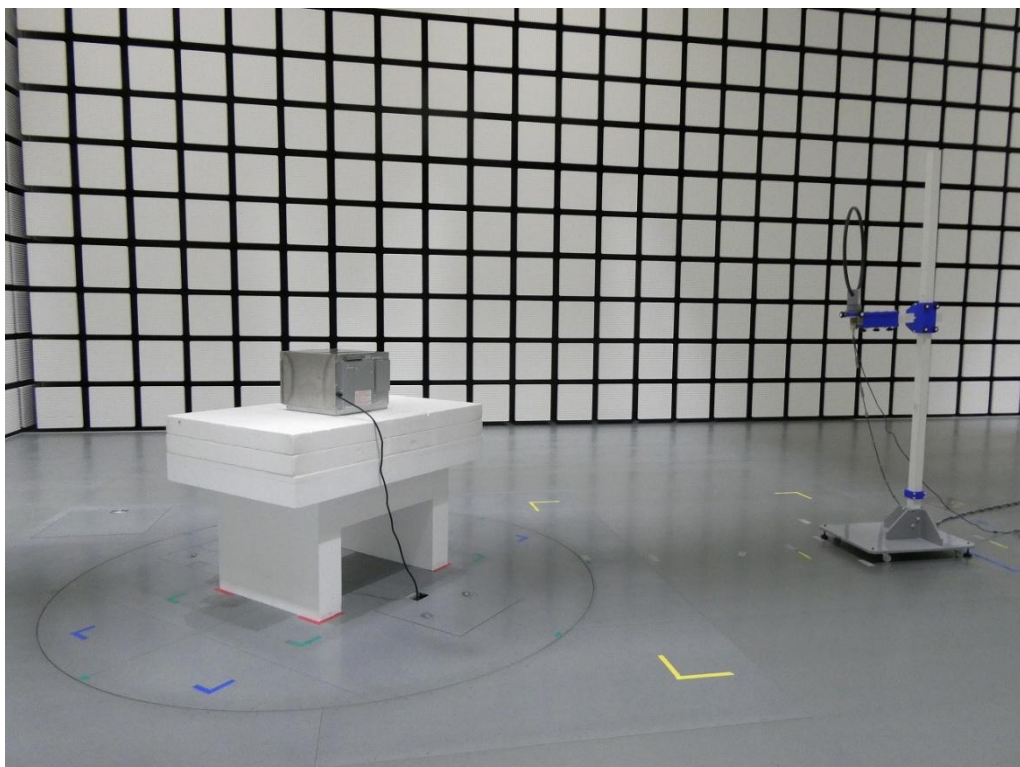


Horizontal Axis

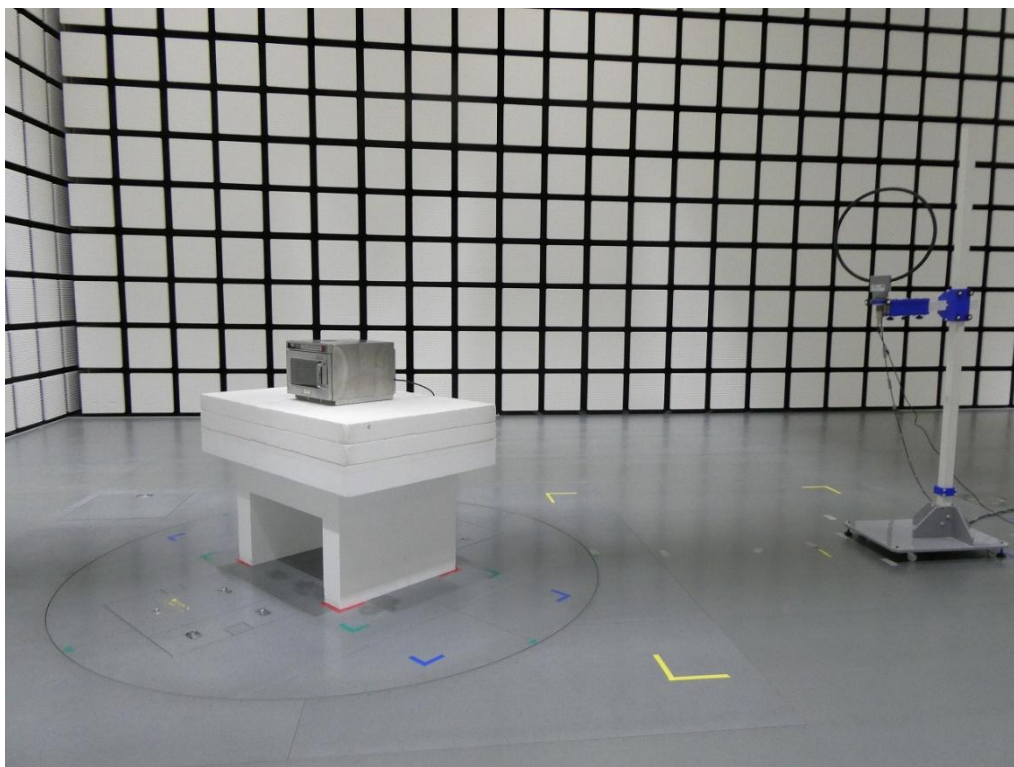




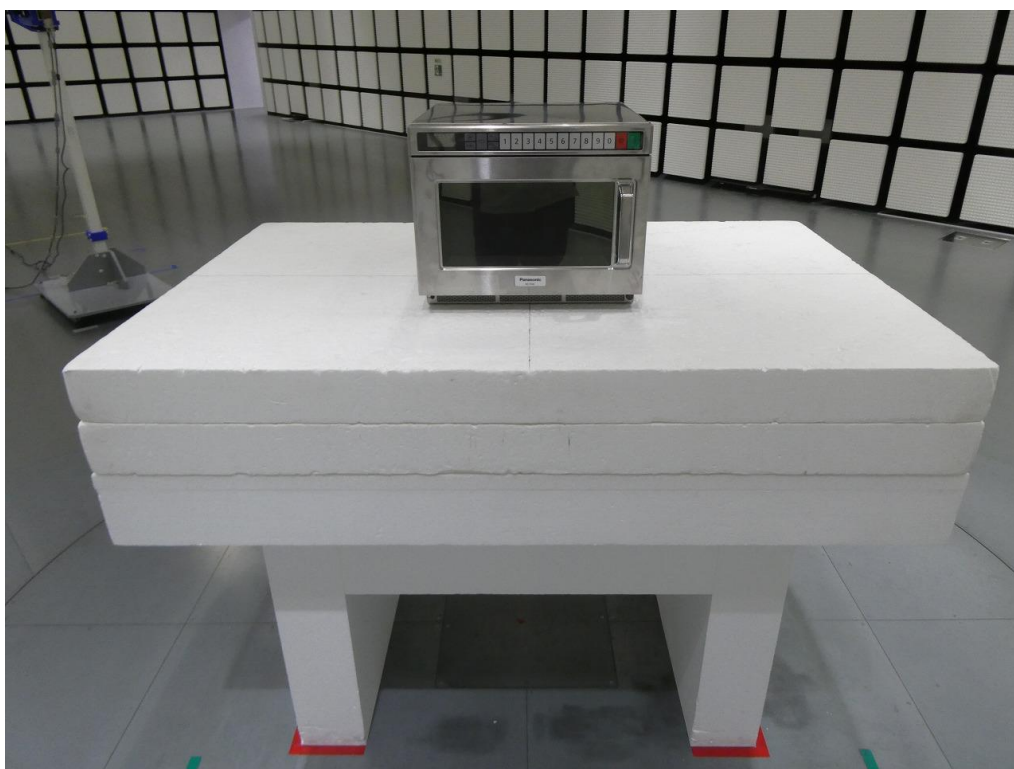
Worst angle AC 208 V / 60 Hz



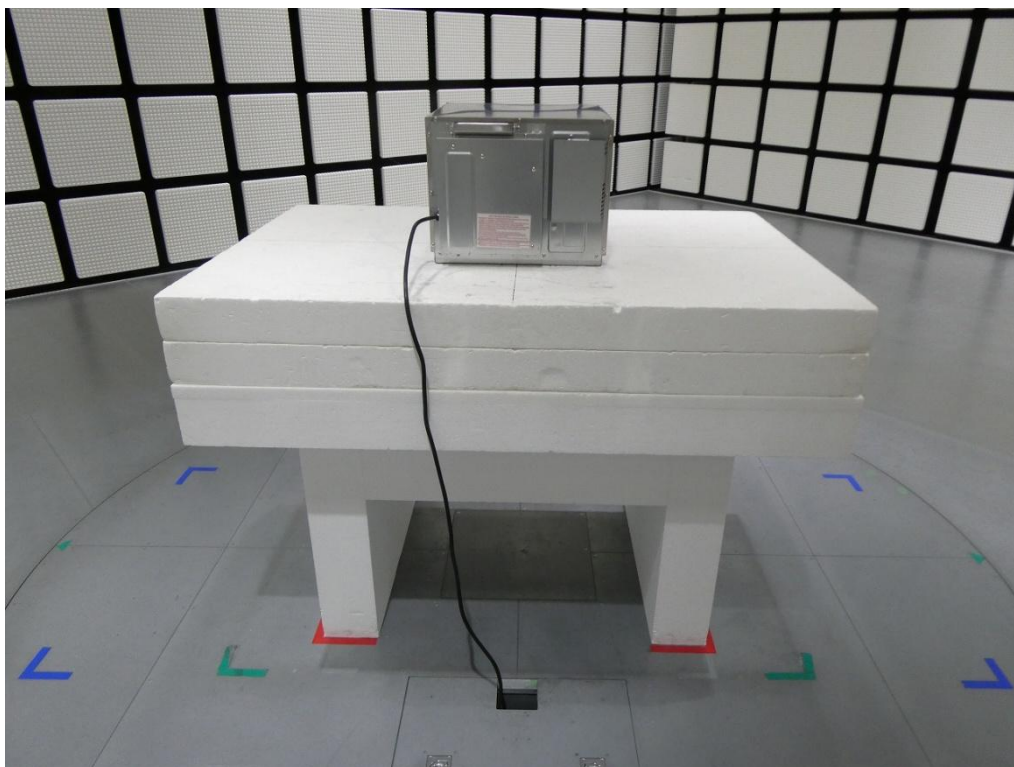
Worst angle AC 240 V / 60 Hz



Worst angle AC 240 V / 60 Hz



Front View



Rear View

Radiated Emission (Below 1 GHz : Electric Field)

The measurement of the Radiated Emission (Below 1 GHz : Electric Field) in the frequency range 30 MHz - 1000 MHz was performed in horizontal and vertical antenna position according to FCC Part 18 at:

Test Location:

- 10 m anechoic chamber

Test Distance:

- 3 m

Test Volume:

- $\varnothing$ 0.66 m

Data of Test Environmental Conditions: Refer to Test Data
Lists of the Test Equipment: Refer to Appendix A

The requirements are

■ MET

□ NOT MET

• AC 208 V / 60 Hz

Min. limit margin 47.494 $\mu\text{V/m}$ at 766.38 MHz
(AV detector receiver with Horizontal antenna polarization)

• AC 240 V / 60 Hz

Min. limit margin 47.766 $\mu\text{V/m}$ at 773.51 MHz
(AV detector receiver with Horizontal antenna polarization)

Description of calculation

30 MHz to 1 GHz

Calculation Formula to get field strength at 300 m from the measured at 3 m.

Calculation Formula:

Result at 300 m [$\mu\text{V/m}$]
 $= 10^{((\text{Emission Level at 3 m [dB}\mu\text{V/m]}) / 20) * (3/300)}$

Example: Frequency 766.38 MHz,
Result at 3 m 14.3 dB $\mu\text{V/m}$

Result at 300 m [$\mu\text{V/m}$]
 $= 10^{(14.3 / 20) * (3/300)}$
 $= 0.052 \mu\text{V/m}$

Remarks: Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Test Data

Test Condition of Instrument : EUT Warm-up Time: 10 minutes
Resolution Bandwidth : 120 kHz (30 MHz to 1 GHz) Date: 17 December, 2025
Environment: 21 deg.C / 28 % / 994 hPa
Detector Function : Average
Test Mode : High Power Mode: 2100 W
Test Voltage : AC 208 V / 60Hz
Load : 1750 ml Center

Freq. [MHz]	Pol.	Read- ing at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 300 m [dBμV/m]	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
77.93	H	24.7	-17.7	7.0	-33.0	0.022	47.546	47.524	243	228
128.96	H	21.1	-10.2	10.9	-29.1	0.035	47.546	47.511	157	280
180.51	H	21.1	-7.3	13.8	-26.2	0.049	47.546	47.497	181	252
738.68	H	18.4	-5.4	13.0	-27.0	0.045	47.546	47.501	143	120
766.38	H	19.1	-4.8	14.3	-25.7	0.052	47.546	47.494	142	120
74.00	V	23.0	-18.1	4.9	-35.1	0.018	47.546	47.528	100	153
147.58	V	17.6	-8.9	8.7	-31.3	0.027	47.546	47.519	100	337
157.80	V	17.0	-8.3	8.7	-31.3	0.027	47.546	47.519	100	344
383.28	V	17.4	-13.0	4.4	-35.6	0.017	47.546	47.529	100	205
740.42	V	17.9	-5.4	12.5	-27.5	0.042	47.546	47.504	166	179
755.73	V	17.9	-5.0	12.9	-27.1	0.044	47.546	47.502	164	192

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]

Result at 3 m [dBμV/m] = Reading at 3 m [dBμV] + Factor [dB(1/m)]

Result at 300 m [dBμV/m] = Result at 3 m [dBμV/m] + 20log(3/300) [dB]

Test Condition of Instrument
Resolution Bandwidth : 120 kHz (30 MHz to 1 GHz)
Detector Function : Average
Test Mode : High Power Mode: 2100 W
Test Voltage : AC 240 V / 60Hz
Load : 1750 ml Center

EUT Warm-up Time: 10 minutes
Date: 17 December, 2025
Environment: 21 deg.C / 28 % / 994 hPa

Freq. [MHz]	Pol.	Read- ing at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 300 m [dBμV/m]	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
77.81	H	25.6	-17.8	7.8	-32.2	0.025	47.823	47.798	241	234
131.97	H	21.8	-10.0	11.8	-28.2	0.039	47.823	47.784	133	266
177.80	H	22.2	-7.4	14.8	-25.2	0.055	47.823	47.768	188	250
657.25	H	14.6	-6.8	7.8	-32.2	0.025	47.823	47.798	102	216
773.51	H	19.8	-4.7	15.1	-24.9	0.057	47.823	47.766	102	228
30.42	V	18.7	-6.9	11.8	-28.2	0.039	47.823	47.784	100	19
72.71	V	22.3	-18.1	4.2	-35.8	0.016	47.823	47.807	100	157
92.61	V	25.9	-15.3	10.6	-29.4	0.034	47.823	47.789	100	335
147.24	V	18.1	-8.9	9.2	-30.8	0.029	47.823	47.794	100	351
368.47	V	23.3	-13.6	9.7	-30.3	0.031	47.823	47.792	100	337
747.68	V	17.9	-5.1	12.8	-27.2	0.044	47.823	47.779	167	163

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]
Result at 3 m [dBμV/m] = Reading at 3 m [dBμV] + Factor [dB(1/m)]
Result at 300 m [dBμV/m] = Result at 3 m [dBμV/m] + 20log(3/300) [dB]

Photographs of the Test Set-up

The EUT (with the peripherals) was placed on a 1.0 m high nonconductive turntable along.

The turntable was separated from the antenna by a distance of 3 m.

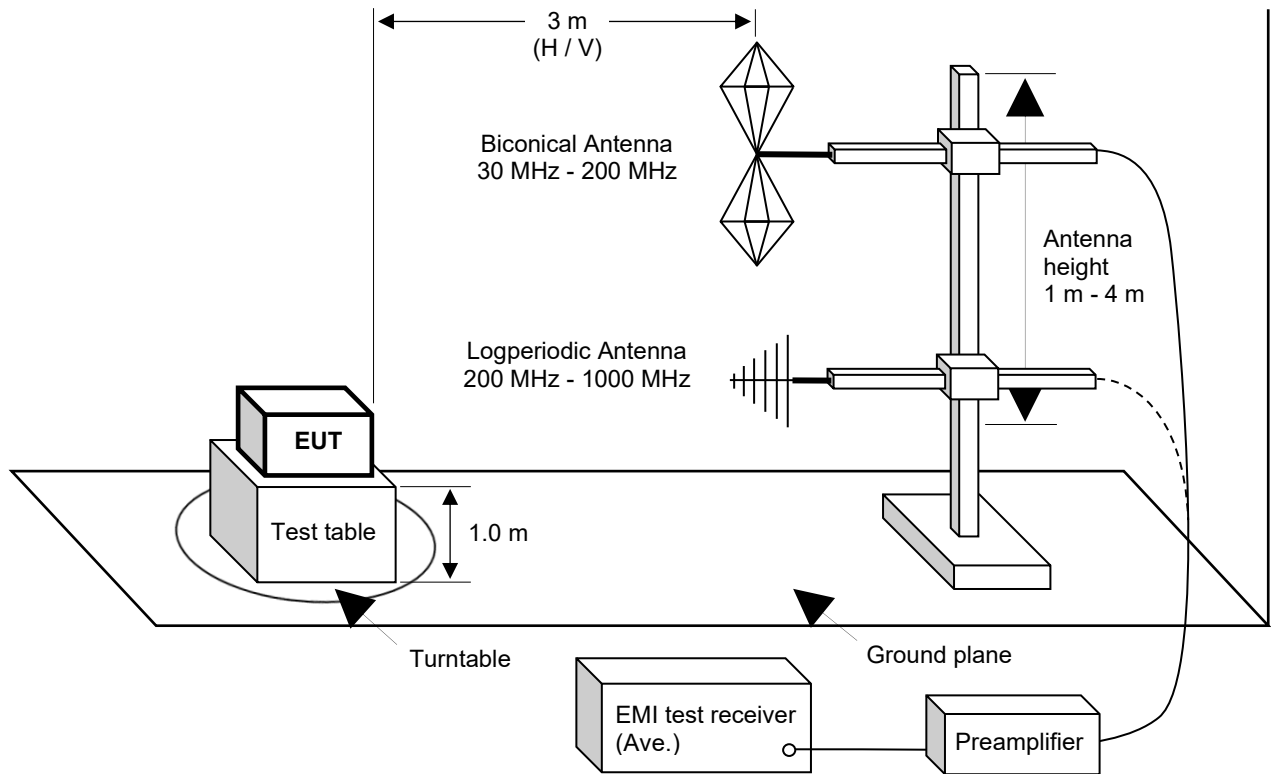
Cables for peripherals were placed in a position to produce maximum emissions as determined by experimentation, and the operation mode was selected for maximum emission.

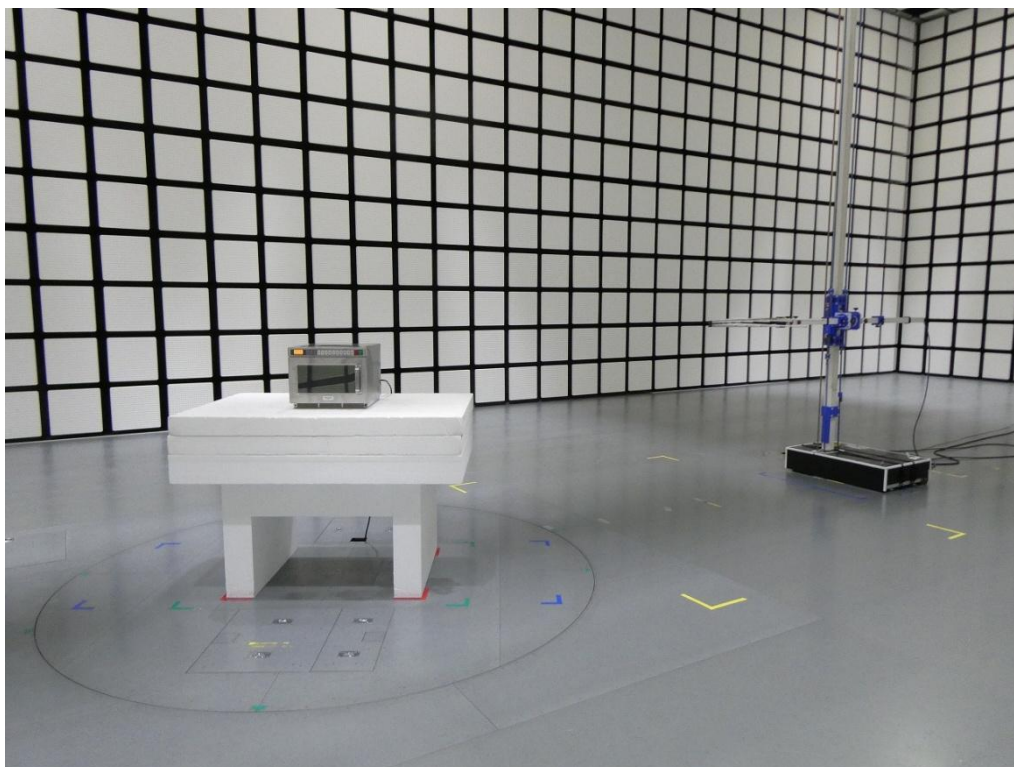
Pre-check: Radiated emission levels (PEAK value) which have small margin for the regulation were measured by means of spectrum analyzer changing antenna movement (1 m - 4 m) and table rotation (0 degree - 360 degree).

Final measurement: Emission levels (Ave. value) were measured by means of the test receiver referring the result of Pre-check.

The emission levels from the EUT were maximized changing conditions; Turntable rotation, Antenna height and arrangement of the EUT.

Drawing :

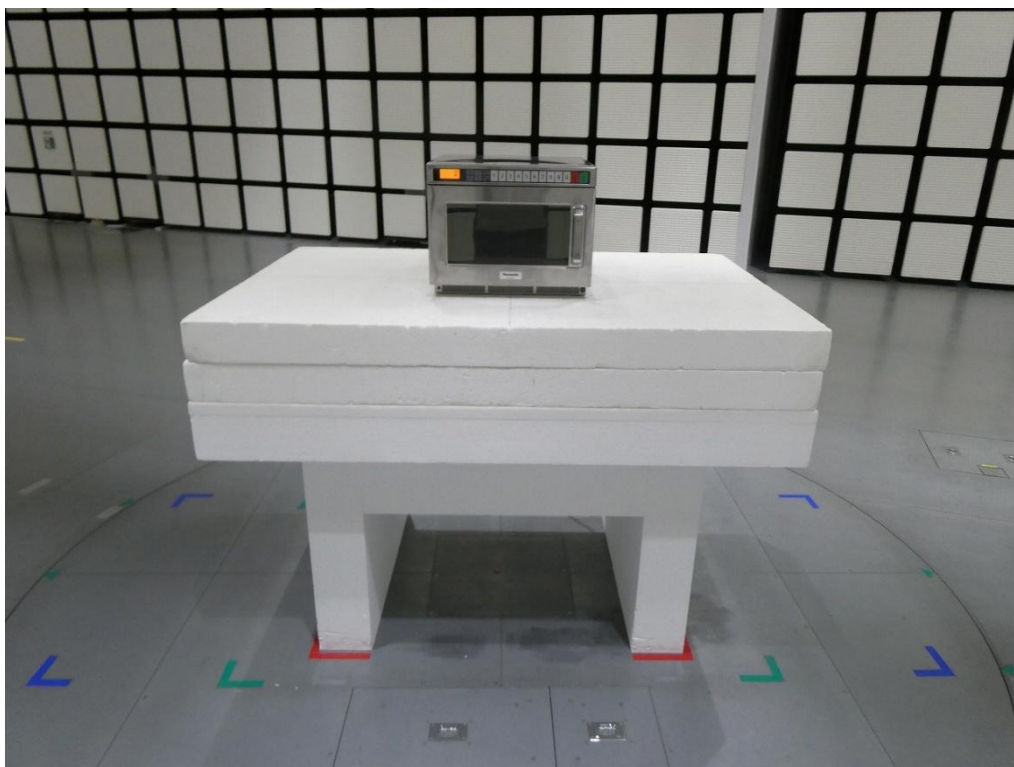




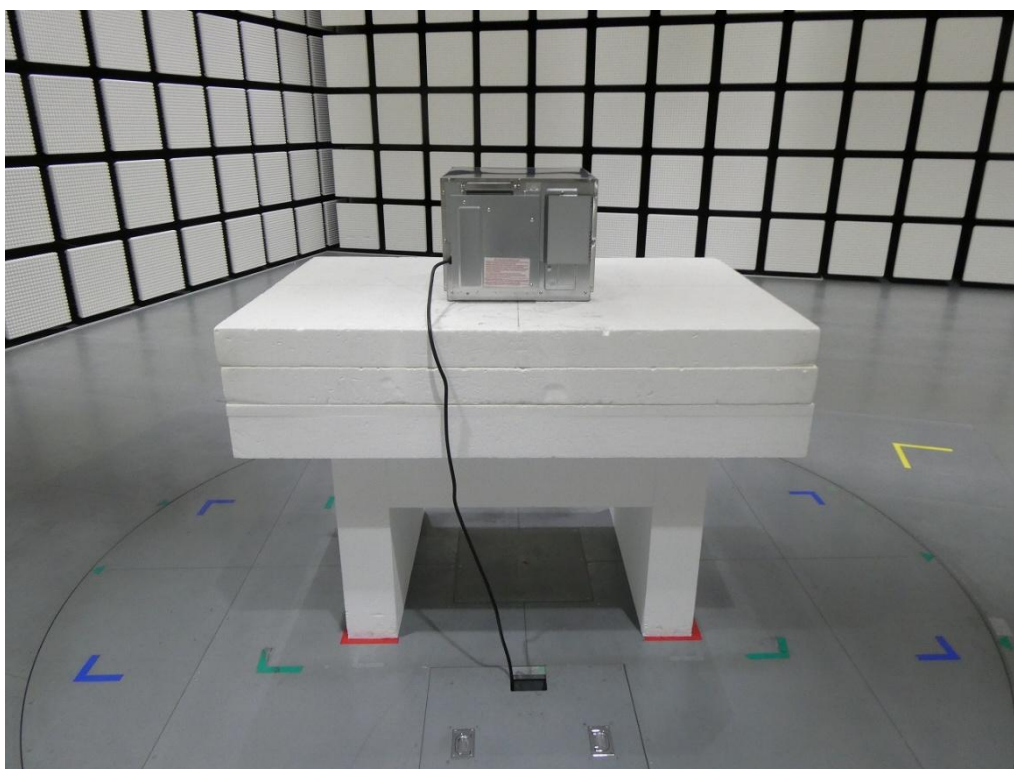
Worst angle AC 208 V / 60 Hz



Worst angle AC 240 V / 60 Hz



Front View



Rear View

Radiated Emission (Above 1 GHz : Electric Field)

The measurement of the Radiated Emission (Above 1 GHz : Electric Field) in the frequency range 1 GHz - 25 GHz was performed in horizontal and vertical antenna position according to FCC Part 18 at:

Test Location:

- 3 m anechoic chamber

Test Distance:

- 3 m

Test Volume:

- φ 0.66 m

Data of Test Environmental Conditions: Refer to Test Data

Lists of the Test Equipment: Refer to Appendix A

The requirements are

☒ **MET**

☐ **NOT MET**

- AC 208 V / 60 Hz

Min. limit margin 10.818 $\mu\text{V/m}$ at 4900.44 MHz
(AV detector signal analyzer with Vertical antenna polarization at 750 ml Right Front Corner)

- AC 240 V / 60 Hz

Min. limit margin 24.109 $\mu\text{V/m}$ at 4915.04 MHz
(AV detector signal analyzer with Vertical antenna polarization at 750 ml Right Front Corner)

1 GHz - 6 GHz

Frequency [GHz]	$\theta_{3\text{dB}}$ E Plane [°]	$\theta_{3\text{dB}}$ H Plane [°]	$\theta_{3\text{dB}}$ min [°]	W min [m]	Frequency [GHz]	$\theta_{3\text{dB}}$ E Plane [°]	$\theta_{3\text{dB}}$ H Plane [°]	$\theta_{3\text{dB}}$ min [°]	W min [m]
1	87.7	61.2	61.2	3.55	4	32.1	52.5	32.1	1.73
2	48.6	38.5	38.5	2.10	5	54.6	44.3	44.3	2.44
3	37.4	51.6	37.4	2.03	6	48.4	38.1	38.1	2.07

$\theta_{3\text{dB}}$: The minimum 3 dB beam width of receive antenna.

W : The dimension of the line tangent to the EUT formed by $\theta_{3\text{dB}}$ at 3 m.

$$W = 2 \times 3 [\text{m}] \times \tan(0.5 \times \theta_{3\text{dB}}) \approx 1.73 \text{ m}$$

6 GHz - 18 GHz

Frequency [GHz]	$\theta_{3\text{dB}}$ E Plane [°]	$\theta_{3\text{dB}}$ H Plane [°]	$\theta_{3\text{dB}}$ min [°]	W min [m]	Frequency [GHz]	$\theta_{3\text{dB}}$ E Plane [°]	$\theta_{3\text{dB}}$ H Plane [°]	$\theta_{3\text{dB}}$ min [°]	W min [m]
6	37	44	37	2.01	13	25	23	23	1.22
7	38	39	38	2.07	14	30	23	23	1.22
8	30	33	30	1.61	15	32	19	19	1.00
9	28	29	28	1.50	16	29	19	19	1.00
10	27	27	27	1.44	17	28	18	18	0.95
11	29	24	24	1.28	18	29	17	17	0.90
12	33	26	26	1.39					

$\theta_{3\text{dB}}$: The minimum 3 dB beam width of receive antenna.

W : The dimension of the line tangent to the EUT formed by $\theta_{3\text{dB}}$ at 3 m.

$$W = 2 \times 3 [\text{m}] \times \tan(0.5 \times \theta_{3\text{dB}}) \approx 0.90 \text{ m}$$

18 GHz - 25 GHz

Frequency [GHz]	θ_{3dB} E Plane [°]	θ_{3dB} H Plane [°]	θ_{3dB} min [°]	W min [m]	Frequency [GHz]	θ_{3dB} E Plane [°]	θ_{3dB} H Plane [°]	θ_{3dB} min [°]	W min [m]
18	52	40	40	2.18	22	50	38	38	2.07
19	48	38	38	2.07	23	50	38	38	2.07
20	51	39	39	2.12	24	48	37	37	2.01
21	50	38	38	2.07	25	50	38	38	2.07

θ_{3dB} : The minimum 3 dB beam width of receive antenna.

W : The dimension of the line tangent to the EUT formed by θ_{3dB} at 3 m.

$$W = 2 \times 3 \text{ [m]} \times \tan(0.5 \times \theta_{3dB}) \approx 2.01 \text{ m}$$

Description of calculation

1 GHz to 25 GHz

Calculation Formula to get field strength at 300 m from the measured at 3 m.

Calculation Formula:

Result at 300 m [$\mu\text{V/m}$]

$$= K \times 10^{\{(\text{Emission Level at 3 m [dB}\mu\text{V/m]}) / 20 \}}$$

K: Conversion Factor for 3 m to 300 m

Example: Frequency 4900.44 MHz,
Result at 3 m 71.3 dB $\mu\text{V/m}$

Result at 300 m [$\mu\text{V/m}$]

$$= 0.01 \times 10^{\{ (71.3 / 20) \}}$$

$$= 36.728 \mu\text{V/m}$$

Remarks: Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Test Data

Test Condition of Instrument
 Resolution Bandwidth : 1 MHz (1 GHz to 25 GHz)
 EUT Warm-up Time: 10 minutes
 Date: 5 January, 2026
 Environment: 11 deg.C / 50 % / 989 hPa

Detector Function : Average
 Test Mode : High Power Mode: 2100 W

Test Voltage : AC 208 V / 60Hz
 Load : 1750 ml Center

Freq. [MHz]	Pol.	Read- ing at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
2185.95	H	25.2	29.7	54.9	555.9	0.007	3.891	47.546	43.655	154	258
2391.95	H	21.7	29.3	51.0	354.8	0.007	2.484	47.546	45.062	161	320
2714.56	H	19.2	29.9	49.1	285.1	0.007	1.996	47.546	45.550	163	307
4283.37	H	54	-7.5	46.5	211.3	0.010	2.113	47.546	45.433	126	63
4921.17	H	56.1	-6.4	49.7	305.5	0.010	3.055	47.546	44.491	150	158
6499.97	H	49.3	-7.4	41.9	124.5	0.010	1.245	47.546	46.301	101	258
7103.94	H	49.6	-8.4	41.2	114.8	0.010	1.148	47.546	46.398	101	84
7369.24	H	44.7	-8.9	35.8	61.7	0.010	0.617	47.546	46.929	150	107
9486.36	H	49.4	-7.3	42.1	127.4	0.010	1.274	47.546	46.272	101	299
14709.71	H	41.3	-3.8	37.5	75.0	0.010	0.750	47.546	46.796	140	207
19698.40	H	39.7	0.4	40.1	101.2	0.010	1.012	47.546	46.534	124	28
2175.89	V	25.7	29.7	55.4	588.8	0.007	4.122	47.546	43.424	101	42
2716.36	V	22.1	29.9	52.0	398.1	0.007	2.787	47.546	44.759	159	287
4283.01	V	58.1	-7.5	50.6	338.8	0.010	3.388	47.546	44.158	113	332
4913.48	V	58.3	-6.4	51.9	393.6	0.010	3.936	47.546	43.610	133	305
6448.75	V	49.5	-7.6	41.9	124.5	0.010	1.245	47.546	46.301	101	255
7368.91	V	52.4	-8.9	43.5	149.6	0.010	1.496	47.546	46.050	124	198
9486.14	V	63.3	-7.3	56.0	631.0	0.010	6.310	47.546	41.236	150	355
14712.90	V	54.2	-3.8	50.4	331.1	0.010	3.311	47.546	44.235	126	52
19657.23	V	34.8	0.4	35.2	57.5	0.010	0.575	47.546	46.971	124	356
20141.80	V	37.8	0.6	38.4	83.2	0.010	0.832	47.546	46.714	150	178

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]
 Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]
 Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Load : 1750 ml Right Front Corner

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
4906.16	H	57.2	-6.4	50.8	346.7	0.010	3.467	47.546	44.079	124	280
7366.76	H	54.6	-8.9	45.7	192.8	0.010	1.928	47.546	45.618	100	276
4901.48	V	70.3	-6.4	63.9	1566.8	0.010	15.668	47.546	31.878	143	1
7355.45	V	55.4	-8.9	46.5	211.3	0.010	2.113	47.546	45.433	150	37

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]

Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]

Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Load : 750 ml Center

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
4922.34	H	53.1	-6.4	46.7	216.3	0.010	2.163	47.546	45.383	126	278
7395.55	H	57.8	-9.0	48.8	275.4	0.010	2.754	47.546	44.792	101	62
4916.31	V	62.8	-6.4	56.4	660.7	0.010	6.607	47.546	40.939	150	8
7387.41	V	64.1	-9	55.1	568.9	0.010	5.689	47.546	41.857	125	333

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]

Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]

Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Load : 750 ml Right Front Corner

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
4902.91	H	62.4	-6.4	56.0	631.0	0.010	6.310	47.546	41.236	150	148
7370.25	H	54.7	-8.9	45.8	195.0	0.010	1.950	47.546	45.596	100	282
4900.44	V	77.7	-6.4	71.3	3672.8	0.010	36.728	47.546	10.818	139	6
7410.55	V	63	-9	54.0	501.2	0.010	5.012	47.546	42.534	101	334

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]

Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]

Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Test Condition of Instrument
Resolution Bandwidth : 1 MHz (1 GHz to 25 GHz)
EUT Warm-up Time: 10 minutes
Date: 5 January, 2026
Environment: 11 deg.C / 50 % / 989 hPa

Detector Function : Average
Test Mode : High Power Mode: 2100 W

Test Voltage : AC 240 V / 60Hz
Load : 1750 ml Center

Freq. [MHz]	Pol.	Read- ing at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
2188.16	H	26	29.8	55.8	616.6	0.007	4.316	47.823	43.507	102	260
2399.68	H	20.2	29.3	49.5	298.5	0.007	2.090	47.823	45.733	124	228
2747.59	H	15.9	30	45.9	197.2	0.009	1.775	47.823	46.048	133	64
4277.47	H	53	-7.6	45.4	186.2	0.010	1.862	47.823	45.961	100	210
4917.53	H	56	-6.4	49.6	302.0	0.010	3.020	47.823	44.803	138	145
6483.02	H	44.7	-7.4	37.3	73.3	0.010	0.733	47.823	47.090	101	209
7353.42	H	50.9	-8.9	42.0	125.9	0.010	1.259	47.823	46.564	101	57
9489.27	H	48.5	-7.3	41.2	114.8	0.010	1.148	47.823	46.675	117	294
14722.88	H	43.4	-3.9	39.5	94.4	0.010	0.944	47.823	46.879	128	44
19645.81	H	35.4	0.4	35.8	61.7	0.010	0.617	47.823	47.206	102	190
2166.75	V	25.6	29.5	55.1	568.9	0.007	3.982	47.823	43.841	113	39
2746.41	V	16.6	30	46.6	213.8	0.009	1.924	47.823	45.899	120	44
4288.42	V	60.7	-7.5	53.2	457.1	0.010	4.571	47.823	43.252	128	39
4909.26	V	60.1	-6.4	53.7	484.2	0.010	4.842	47.823	42.981	150	9
6401.62	V	61.4	-7.6	53.8	489.8	0.010	4.898	47.823	42.925	147	324
7357.93	V	53	-8.9	44.1	160.3	0.010	1.603	47.823	46.220	110	331
9494.61	V	45.7	-7.3	38.4	83.2	0.010	0.832	47.823	46.991	100	216
14718.18	V	51.4	-3.8	47.6	239.9	0.010	2.399	47.823	45.424	150	178
17217.07	V	52.5	-3.5	49.0	281.8	0.010	2.818	47.823	45.005	121	337
19702.83	V	40.2	0.4	40.6	107.2	0.010	1.072	47.823	46.751	101	357
20284.35	V	36.3	0.6	36.9	70.0	0.010	0.700	47.823	47.123	140	332

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]
Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]
Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Load : 1750 ml Right Front Corner

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
4904.23	H	53.5	-6.4	47.1	226.5	0.010	2.265	47.823	45.558	100	200
7357.95	H	55.1	-8.9	46.2	204.2	0.010	2.042	47.823	45.781	102	58
4904.14	V	71	-6.4	64.6	1698.2	0.010	16.982	47.823	30.841	150	359
7378.85	V	62.2	-8.9	53.3	462.4	0.010	4.624	47.823	43.199	102	325

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]

Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]

Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Load : 750 ml Center

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
4914.52	H	59.8	-6.4	53.4	467.7	0.010	4.677	47.823	43.146	121	156
7366.59	H	49.6	-8.9	40.7	108.4	0.010	1.084	47.823	46.739	100	70
4916.56	V	63.7	-6.4	57.3	732.8	0.010	7.328	47.823	40.495	100	359
7381.40	V	62.2	-8.9	53.3	462.4	0.010	4.624	47.823	43.199	101	39

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]

Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]

Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Load : 750 ml Right Front Corner

Freq. [MHz]	Pol.	Reading at 3 m [dBμV]	Factor [dB(1/m)]	Result at 3 m [dBμV/m]	Result at 3 m [μV/m]	K	Result at 300 m [μV/m]	Limits at 300 m [μV/m]	Margin [μV/m]	Height [cm]	Angle [deg.]
4908.66	H	63.4	-6.4	57.0	707.9	0.010	7.079	47.823	40.744	122	147
7363.20	H	53.3	-8.9	44.4	166.0	0.010	1.660	47.823	46.163	113	245
4915.04	V	73.9	-6.4	67.5	2371.4	0.010	23.714	47.823	24.109	150	353
7347.84	V	59.3	-8.9	50.4	331.1	0.010	3.311	47.823	44.512	136	46

Factor [dB(1/m)] = Antenna Factor [dB(1/m)] + Cable Loss [dB] - Amp. Gain [dB]

Result at 3 m [dBμV/m] = Reading at 3m [dBμV] + Factor [dB(1/m)]

Result at 300 m [μV/m] = K * Result at 3m [μV/m]

Photographs of the Test Set-up

The EUT(with the peripherals) was placed on a 1.0 m high nonconductive turntable along.

The turntable was separated from the antenna by a distance of 3 m.

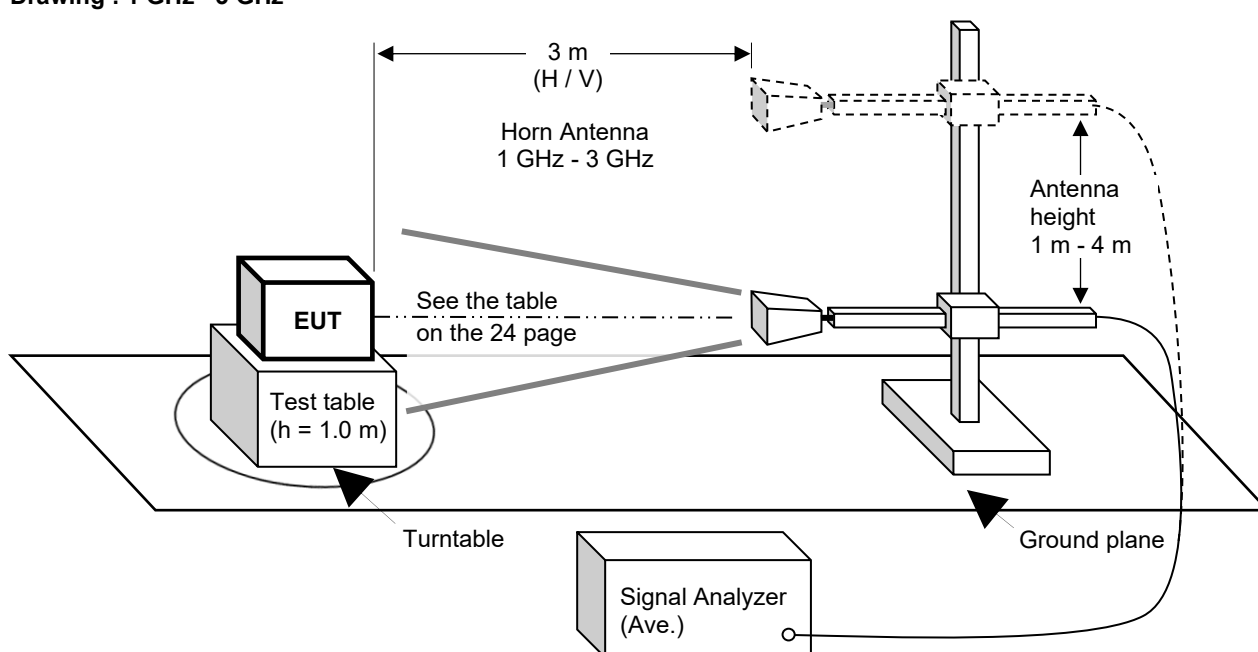
Cables for peripherals were placed in a position to produce maximum emissions as determined by experimentation, and the operation mode was selected for maximum emission.

Pre-check: Radiated emission levels (Ave. value) which have small margin for the regulation were measured by means of spectrum analyzer changing antenna movement (1 m - 4 m) and table rotation (0 degree - 360 degree).
Final measurement: Emission levels (Ave. value) were measured by means of the signal analyzer (1 GHz - 25 GHz) referring

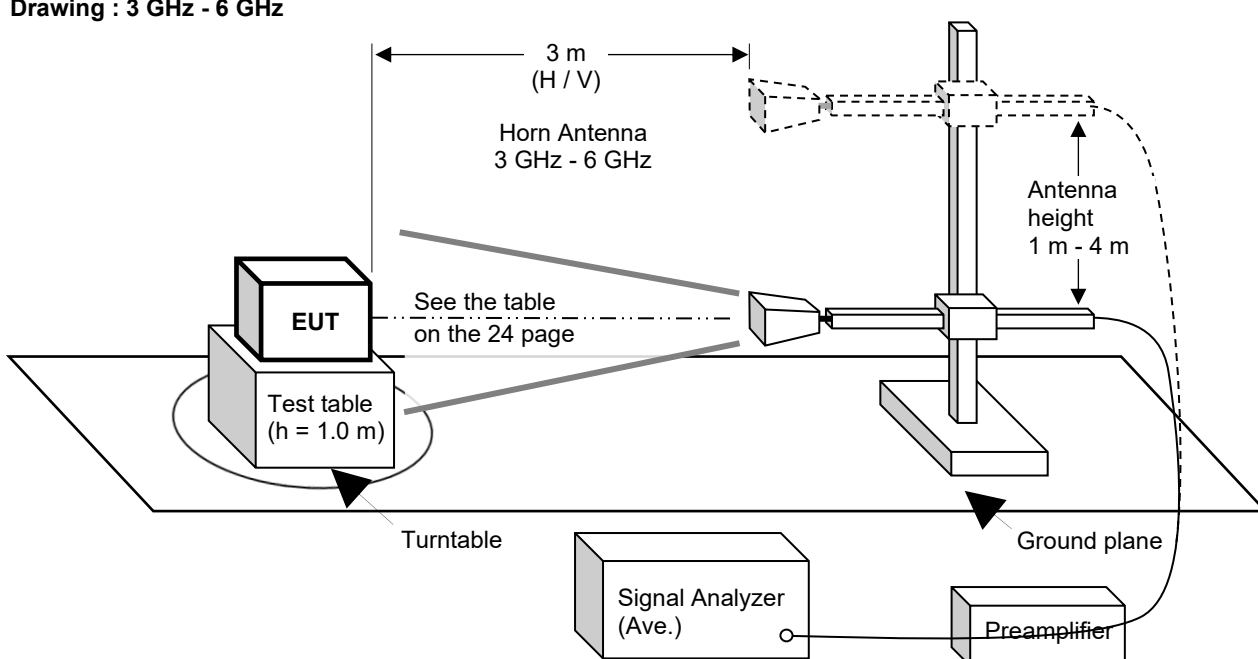
the result of Pre-check.

The emission level from the EUT were maximized changing conditions; Turn table rotation, Antenna height, azimuth and arrangement of the EUT.

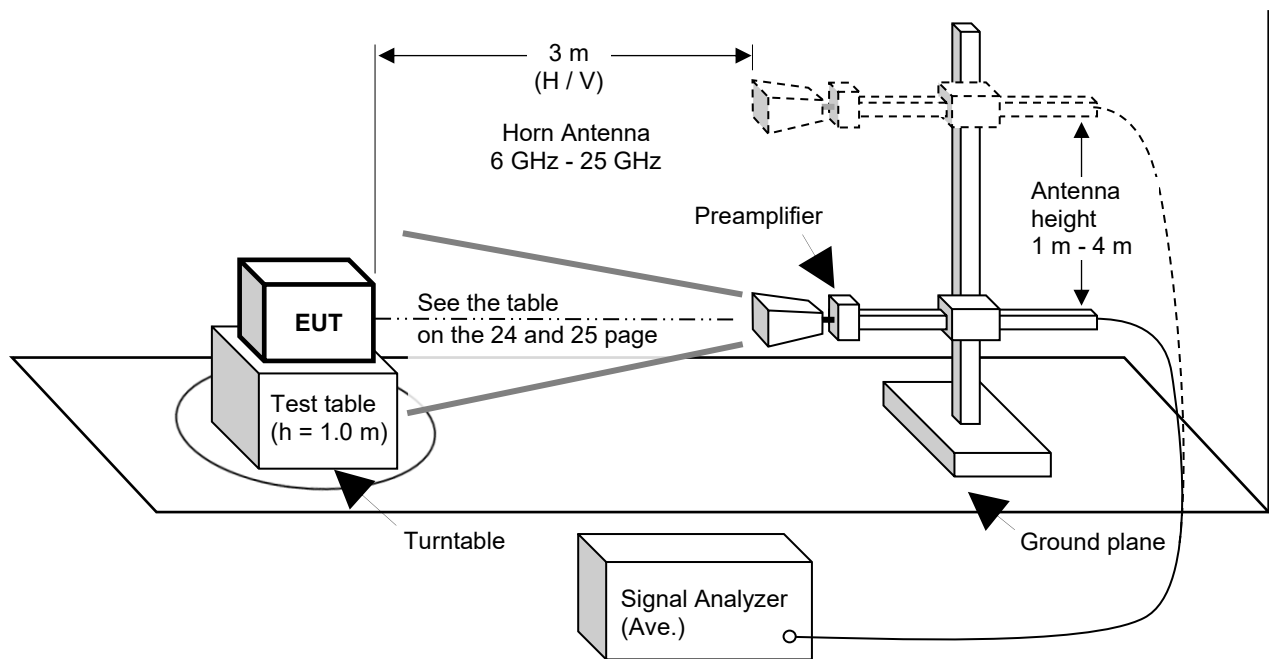
Drawing : 1 GHz - 3 GHz



Drawing : 3 GHz - 6 GHz

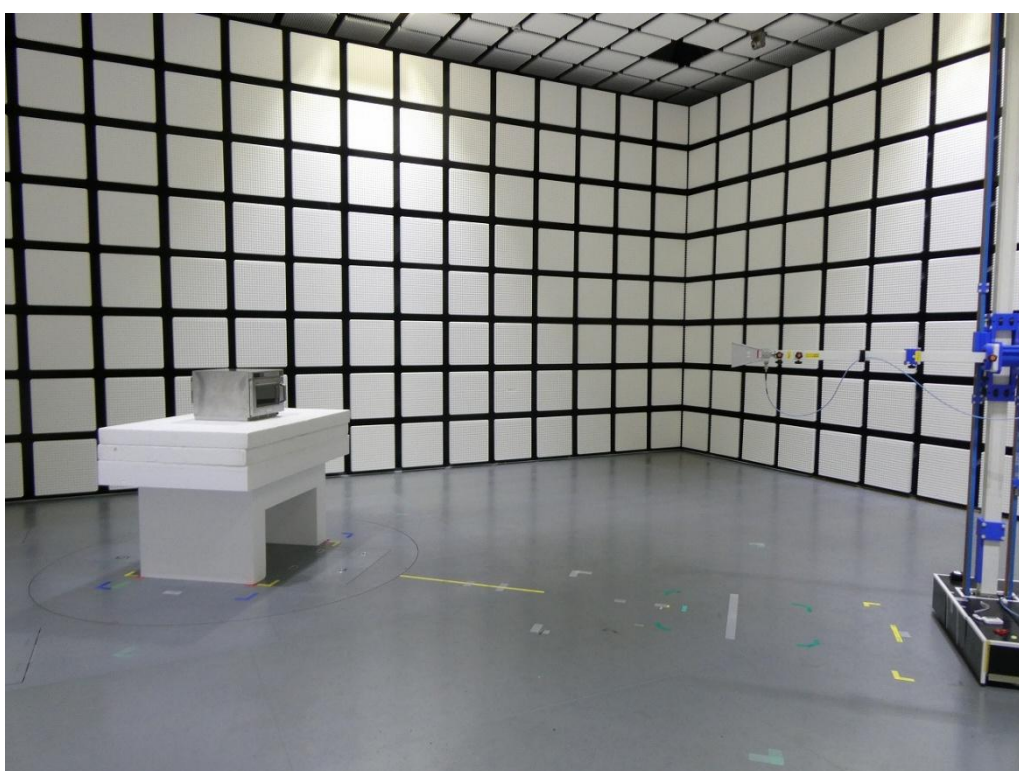


Drawing : 6 GHz - 25 GHz

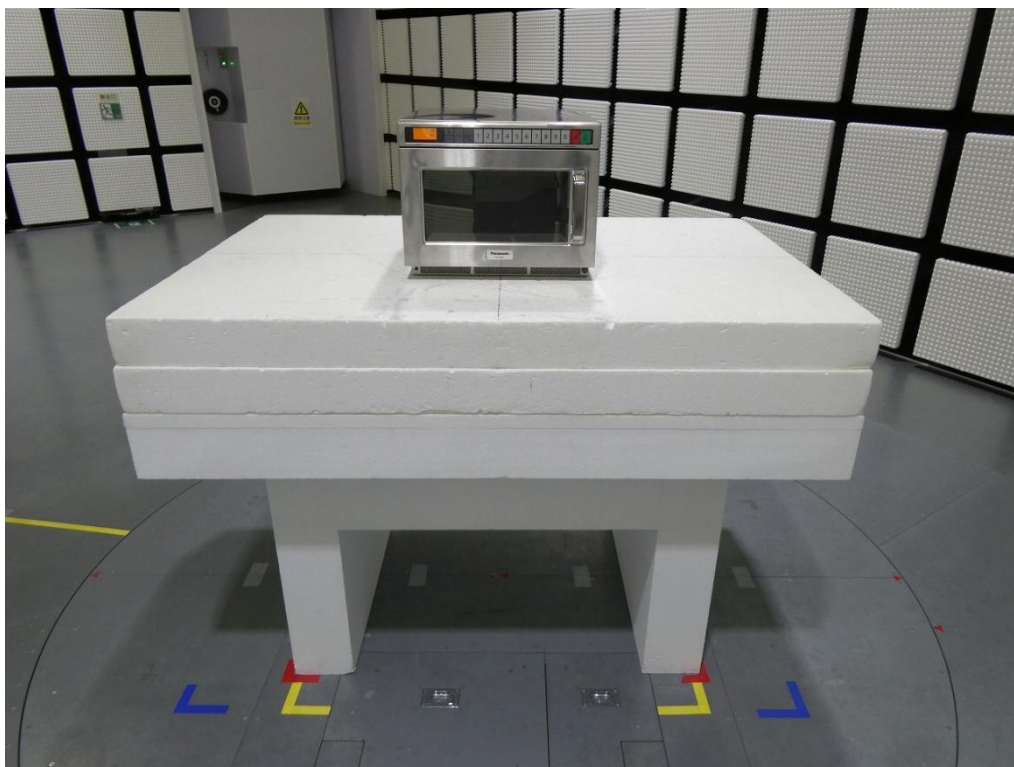




Worst angle AC 208 V / 60 Hz



Worst angle AC 240 V / 60 Hz



Front View



Rear View

Operating Frequency measurements (OST MP-5, 4.5)

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 2500 ml water load was placed in the center of the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 % of the original load.

Test Location:

- 3 m anechoic chamber

Lists of the Test Equipment:

Refer to Appendix A

- AC 208 V / 60 Hz

Maximum frequency variation

Variation of frequency with time, using the Load

2.45018 GHz – 2.46338 GHz (2500 ml - 500 ml / Load)

Date: 26 December, 2025

Environment: 14 deg.C / 44 % / 986 hPa

	Time (minutes)	Frequency (GHz)
100%	0	2.45656
	2	2.45480
	4	2.45716
	6	2.45496
	8	2.45806
	10	2.45696
	12	2.45566
	14	2.45480
	16	2.45570
	18	2.45468
	20	2.45418
	22	2.45018
	24	2.45060
	26	2.45466
	28	2.45876
	30	2.45936
	32	2.46024
	34	2.46124
	36	2.45900
	38	2.46338
	40	2.45992
	42	2.45850
	44	2.45780
	46	2.46006
	48	2.46210
	50	2.45974
	52	2.45220
	54	2.45400
	56	2.45494
20 %	58	2.45630

• AC 240 V / 60 Hz

Maximum frequency variation

Variation of frequency with time, using the Load

2.44922 GHz – 2.46244 GHz (2500 ml ~ 500 ml / Load)

Date: 26 December, 2025

Environment: 14 deg.C / 44 % / 986 hPa

	Time (minutes)	Frequency (GHz)
100%	0	2.45640
	2	2.45510
	4	2.45778
	6	2.45578
	8	2.45578
	10	2.45764
	12	2.45294
	14	2.45916
	16	2.45506
	18	2.45172
	20	2.45508
	22	2.45866
	24	2.45734
	26	2.45966
	28	2.45950
	30	2.45728
	32	2.45786
	34	2.46060
	36	2.46244
	38	2.45914
	40	2.45622
	42	2.46058
	44	2.45968
	46	2.45556
	48	2.45106
	50	2.44922
	52	2.44964
	54	2.46124
20 %	56	2.45900

Variation in Operating Frequency with Line Voltage (OST MP-5, 4.5)

The EUT was operated / warmed by at least 10 minutes of use with a 2500 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 Location:

- 3 m anechoic chamber

Lists of the Test Equipment:

Refer to Appendix A

• AC 208 V / 60 Hz

Variation of frequency for Line Voltage variation

2.45194 GHz – 2.46126 GHz (166.4 V – 260.0 V / 2500 ml Load)

EUT Warm-up Time: 10 minutes

Date: 26 December, 2025

Environment: 14 deg.C / 44 % / 986 hPa

input voltage (%)	Voltage (V)	Frequency (GHz)
80	166.4	2.45470
85	176.8	2.45268
90	187.2	2.45504
95	197.6	2.45630
100	208.0	2.45562
105	218.4	2.46126
110	228.8	2.46086
115	239.2	2.45346
120	249.6	2.45194
125	260.0	2.45278

• AC 240 V / 60 Hz

Variation of frequency for Line Voltage variation

2.45276 GHz – 2.46216 GHz (192.0 V – 300.0 V / 2500 ml Load)

EUT Warm-up Time: 10 minutes

Date: 26 December, 2025

Environment: 14 deg.C / 44 % / 986 hPa

input voltage (%)	Voltage (V)	Frequency (GHz)
80	192.0	2.45344
85	204.0	2.46066
90	216.0	2.45546
95	228.0	2.46168
100	240.0	2.45990
105	252.0	2.46052
110	264.0	2.46216
115	276.0	2.45986
120	288.0	2.45898
125	300.0	2.45276

Appendix A Lists of the Test Equipment

Radiated Emission (9 kHz - 30 MHz : Electric Field)

Frequency range: 0.009 MHz - 30 MHz

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
EMI Test Receiver	ESW8	Rohde & Schwarz	103297	RCV0297	9 kHz - 8 GHz	12 February, 2025	28 February, 2026
Loop antenna	HFH2-Z2	Rohde & Schwarz	100014	ANT5063	9 kHz - 30 MHz	6 June, 2025	30 June, 2026

Device	Model No.	Manufacturer	Version	Reg. No.
Software	ES10/RE	TOYO Corporation	2025.10.000	S-SW048-1

Radiated Emission (Below 1 GHz : Electric Field)

Frequency range: 30 MHz - 1000 MHz

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
EMI Test Receiver	ESW8	Rohde & Schwarz	103297	RCV0297	9 kHz - 8 GHz	12 February, 2025	28 February, 2026
Biconical Antenna	VHA 9103 & BBA 9106	Schwarzbeck	VHA9103 2397	ANT1004	30 MHz - 300 MHz	7 August, 2025	31 August, 2026
Logperiodic Antenna	VULP9118B	Schwarzbeck	00952	ANT0952	160 MHz - 1 GHz	7 August, 2025	31 August, 2026
Preamplifier	310N	SONOMA	394510	AMP0510	30 MHz - 1 GHz	27 June, 2024	30 June, 2026

Device	Model No.	Manufacturer	Version	Reg. No.
Software	ES10/RE	TOYO Corporation	2025.10.000	S-SW048-1

Radiated Emission (Above 1 GHz : Electric Field)

Frequency range: 1 GHz - 3 GHz

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
Signal Analyzer	N9010B	Keysight Technologies	MY590704 39	SPA0439	9 kHz - 40 GHz	19 December, 2025	31 December, 2026
Horn antenna	BBHA 9120D	Schwarzbeck	1632	ANT1632	1 GHz - 18 GHz	4 April, 2025	30 April, 2026

Device	Model No.	Manufacturer	Version	Reg. No.
Software	ES10/RE	TOYO Corporation	2025.10.000	S-SW049-1

Frequency range: 3 GHz - 6 GHz

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
Signal Analyzer	N9010B	Keysight Technologies	MY590704 39	SPA0439	9 kHz - 40 GHz	19 December, 2025	31 December, 2026
Horn antenna	BBHA 9120D	Schwarzbeck	1632	ANT1632	1 GHz - 18 GHz	4 April, 2025	30 April, 2026
Preamplifier	TPA0108-40	Toyo Corporation	0452	AMP0722	1 GHz - 8 GHz	5 June, 2025	30 June, 2027
Highpass Filter	WHKX 10-2700-3000-18000-40SS	Wainwright	SN 101	FIL0105	3 GHz - 18 GHz	5 June, 2025	30 June, 2027

Device	Model No.	Manufacturer	Version	Reg. No.
Software	ES10/RE	TOYO Corporation	2025.10.000	S-SW049-1

Frequency range: 6 GHz - 18 GHz

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
Signal Analyzer	N9010B	Keysight Technologies	MY590704 39	SPA0439	9 kHz - 40 GHz	19 December, 2025	31 December, 2026
Horn antenna	HAP06-18A	Schwarzbeck	-	ANT5059	6 GHz - 18 GHz	12 August, 2025	31 August, 2026
Preamplifier	HAP06-18A (Preamplifier)	TOYO Corporation	-	AMP5032	6 GHz - 18 GHz	12 August, 2025	31 August, 2026

Device	Model No.	Manufacturer	Version	Reg. No.
Software	ES10/RE	TOYO Corporation	2025.10.000	S-SW049-1

Frequency range: 18 GHz – 25.0 GHz

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
Signal Analyzer	N9010B	Keysight Technologies	MY590704 39	SPA0439	9 kHz - 40 GHz	19 December, 2025	31 December, 2026
Horn antenna	HAP18-26A	Schwarzbeck	-	ANT5060	18 GHz - 26.5 GHz	12 August, 2025	31 August, 2026
Preamplifier	HAP18-26A (Preamplifier)	TOYO Corporation	-	AMP5033	18 GHz - 26.5 GHz	12 August, 2025	31 August, 2026

Device	Model No.	Manufacturer	Version	Reg. No.
Software	ES10/RE	TOYO Corporation	2025.10.000	S-SW049-1

Operating Frequency measurements (OST MP-5, 4.5)

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
Signal Analyzer	N9010B	Keysight Technologies	MY590704 39	SPA0439	9 kHz - 40 GHz	19 December, 2025	31 December, 2026
Horn antenna	BBHA 9120D	Schwarzbeck	1632	ANT1632	1 GHz - 18 GHz	4 April, 2025	30 April, 2026

Variation in Operating Frequency with Line Voltage (OST MP-5, 4.5)

Device	Model No.	Manufacturer	Serial No.	Reg. No.	Freq. range	Last Cal.	Next Cal.
Signal Analyzer	N9010B	Keysight Technologies	MY59070439	SPA0439	9 kHz - 40 GHz	19 December, 2025	31 December, 2026
Horn antenna	BBHA 9120D	Schwarzbeck	1632	ANT1632	1 GHz - 18 GHz	4 April, 2025	30 April, 2026

Thermo-hygrometer

Test Room	Device	Model No.	Manufacturer	Serial. No.	Reg. No.	Last Cal.	Next Cal.
10 m anechoic chamber	Thermo-hygrometer	TR-73U	T&D Corporation	F8066D71	MTR0824	4 April, 2024	30 April, 2026
3 m anechoic chamber	Thermo-hygrometer	TR-73U	T&D Corporation	F8066BC1	MTR0819	5 April, 2024	30 April, 2026

Appendix B – External Photographs



Front View



Rear View



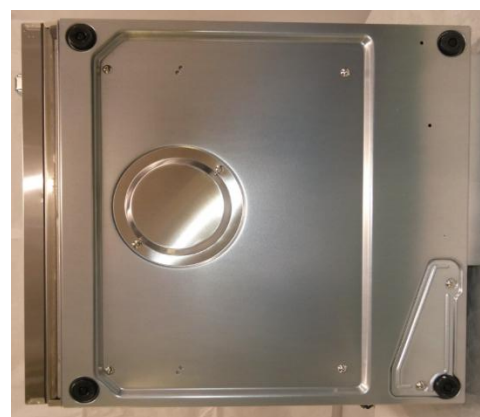
Left View



Right View



Top View



Bottom View



Front View with Door Open