

TEST REPORT



Test Report File No. : S25065-1 (2)

Date of Issue : 19 March, 2026

Type : Commercial Microwave Oven

Model No. : NE-1766

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

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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 S25065-1 (1) (10 March, 2026).

Revision History

Revision	Test Report No.	Date	Description
-	S25065-1	19 January, 2026	Original Issue
(1)	S25065-1 (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)	S25065-1 (2)	19 March, 2026	Page 39: 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-1766 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

$$\text{LFS} = 25 * \text{SQRT} (1882.3 / 500)$$

$$\text{LFS} \approx 48.506 \text{ } \mu\text{V/m}$$

• AC 240 V / 60 Hz

$$\text{LFS} = 25 * \text{SQRT} (1866.5 / 500)$$

$$\text{LFS} \approx 48.302 \text{ } \mu\text{V/m}$$

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	48.506	33.716	73.716
AC 240 V / 60 Hz	48.302	33.679	73.679

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 : 26 December, 2025

◆ 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	47.061	AV
	30 - 1000	48.430	AV
	1000 - 25000	39.065	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	46.840	AV
	30 - 1000	48.240	AV
	1000 - 25000	38.186	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-1766	Rated Power	: 2520 W
Serial No	: FES002	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 : ACLAP3L51

◆ 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: 1700 W

◆ Description of EUT:

Symbol	Type	Model	Serial No.	Manufacturer	EUT condition
A	Commercial Microwave Oven	NE-1766	FES002	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-1766* (*suffix: 1APR, 3APR, CPR)

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

◆Power Cables

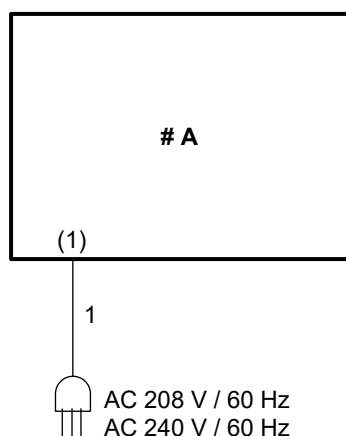
No.	Name of Cable	Pin	Length (m)	Shield	Ferrite Quantity	Ground Line
	Model / Manufacturer					
1	AC Power Cord for EUT A SJT / WELL SHIN	3	1.5	Unshielded	None	Yes

◆Details of ports

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

◆ Block diagram of the EUT

·High Power Mode: 1700 W



EUT

■ : Ferrite

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:

- $\varnothing$ 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 47.061 $\mu\text{V/m}$ at 0.0370 MHz
(AV detector receiver with 0 deg antenna polarization)

• AC 240 V / 60 Hz

Min. limit margin 46.840 $\mu\text{V/m}$ at 0.0410 MHz
(AV detector receiver with 0 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 [$\mu\text{V/m}$]
 $= 10^{\{(Emission\ Level\ at\ 3\ m\ [dB\mu V/m]) / 20\}} * (3/300)^2$

Example: Frequency 0.0410 MHz,
Result at 3 m 83.3 dB $\mu\text{V/m}$

Result at 300 m [$\mu\text{V/m}$]
 $= 10^{(83.3 / 20)} * (3/300)^2$
 $= 1.462\ \mu\text{V/m}$

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 : 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: 1700 W

Test Voltage : AC 208 V / 60Hz
Load : 1400 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.]
0.0250	0	53.6	19.7	73.3	-6.7	0.462	48.506	48.044	200	173
0.0370	0	63.5	19.7	83.2	3.2	1.445	48.506	47.061	200	100
0.0750	0	49.5	19.6	69.1	-10.9	0.285	48.506	48.221	200	100
0.1500	0	36.2	19.5	55.7	-24.3	0.061	48.506	48.445	200	129
0.0250	45	52.5	19.7	72.2	-7.8	0.407	48.506	48.099	200	142
0.0370	45	61.3	19.7	81	1.0	1.122	48.506	47.384	200	236
0.0750	45	47.2	19.6	66.8	-13.2	0.219	48.506	48.287	200	236
0.1500	45	34.5	19.5	54	-26.0	0.050	48.506	48.456	200	99
0.0250	90	50.4	19.7	70.1	-9.9	0.320	48.506	48.186	200	73
0.0370	90	61.1	19.7	80.8	0.8	1.096	48.506	47.410	200	174
0.0750	90	46.9	19.6	66.5	-13.5	0.211	48.506	48.295	200	174
0.1500	90	32.6	19.5	52.1	-27.9	0.040	48.506	48.466	200	185
0.0250	135	52.2	19.7	71.9	-8.1	0.394	48.506	48.112	200	199
0.0370	135	62.1	19.7	81.8	1.8	1.230	48.506	47.276	200	126
0.0750	135	48.2	19.6	67.8	-12.2	0.245	48.506	48.261	200	126
0.1500	135	34.4	19.5	53.9	-26.1	0.050	48.506	48.456	200	145
0.0250	Z	51.4	19.7	71.1	-8.9	0.359	48.506	48.147	200	168
0.0370	Z	61.3	19.7	81.0	1.0	1.122	48.506	47.384	200	119
0.0750	Z	46.4	19.6	66.0	-14.0	0.200	48.506	48.306	200	119
0.1500	Z	33.1	19.5	52.6	-27.4	0.043	48.506	48.463	200	127

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: 1700 W

Test Voltage : AC 240 V / 60Hz
Load : 1400 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.]
0.0290	0	52.3	19.7	72	-8.0	0.398	48.302	47.904	200	152
0.0410	0	63.6	19.7	83.3	3.3	1.462	48.302	46.840	200	106
0.0830	0	47.5	19.5	67	-13.0	0.224	48.302	48.078	200	106
0.1660	0	36.6	19.5	56.1	-23.9	0.064	48.302	48.238	200	125
0.0290	45	51.4	19.7	71.1	-8.9	0.359	48.302	47.943	200	139
0.0410	45	62.3	19.7	82	2.0	1.259	48.302	47.043	200	87
0.0830	45	45.5	19.5	65	-15.0	0.178	48.302	48.124	200	230
0.1660	45	35.1	19.5	54.6	-25.4	0.054	48.302	48.248	200	97
0.0290	90	49.4	19.7	69.1	-10.9	0.285	48.302	48.017	200	84
0.0410	90	60.6	19.7	80.3	0.3	1.035	48.302	47.267	200	174
0.0830	90	45	19.5	64.5	-15.5	0.168	48.302	48.134	200	170
0.1660	90	33.8	19.5	53.3	-26.7	0.046	48.302	48.256	200	187
0.0290	135	50.5	19.7	70.2	-9.8	0.324	48.302	47.978	200	200
0.0410	135	62.1	19.7	81.8	1.8	1.230	48.302	47.072	200	148
0.0830	135	46.3	19.5	65.8	-14.2	0.195	48.302	48.107	200	146
0.1660	135	35.6	19.5	55.1	-24.9	0.057	48.302	48.245	200	146
0.0290	Z	50.2	19.7	69.9	-10.1	0.313	48.302	47.989	200	171
0.0410	Z	60.9	19.7	80.6	0.6	1.072	48.302	47.230	200	113
0.0830	Z	45.0	19.5	64.5	-15.5	0.168	48.302	48.134	200	110
0.1660	Z	33.9	19.5	53.4	-26.6	0.047	48.302	48.255	200	124

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]

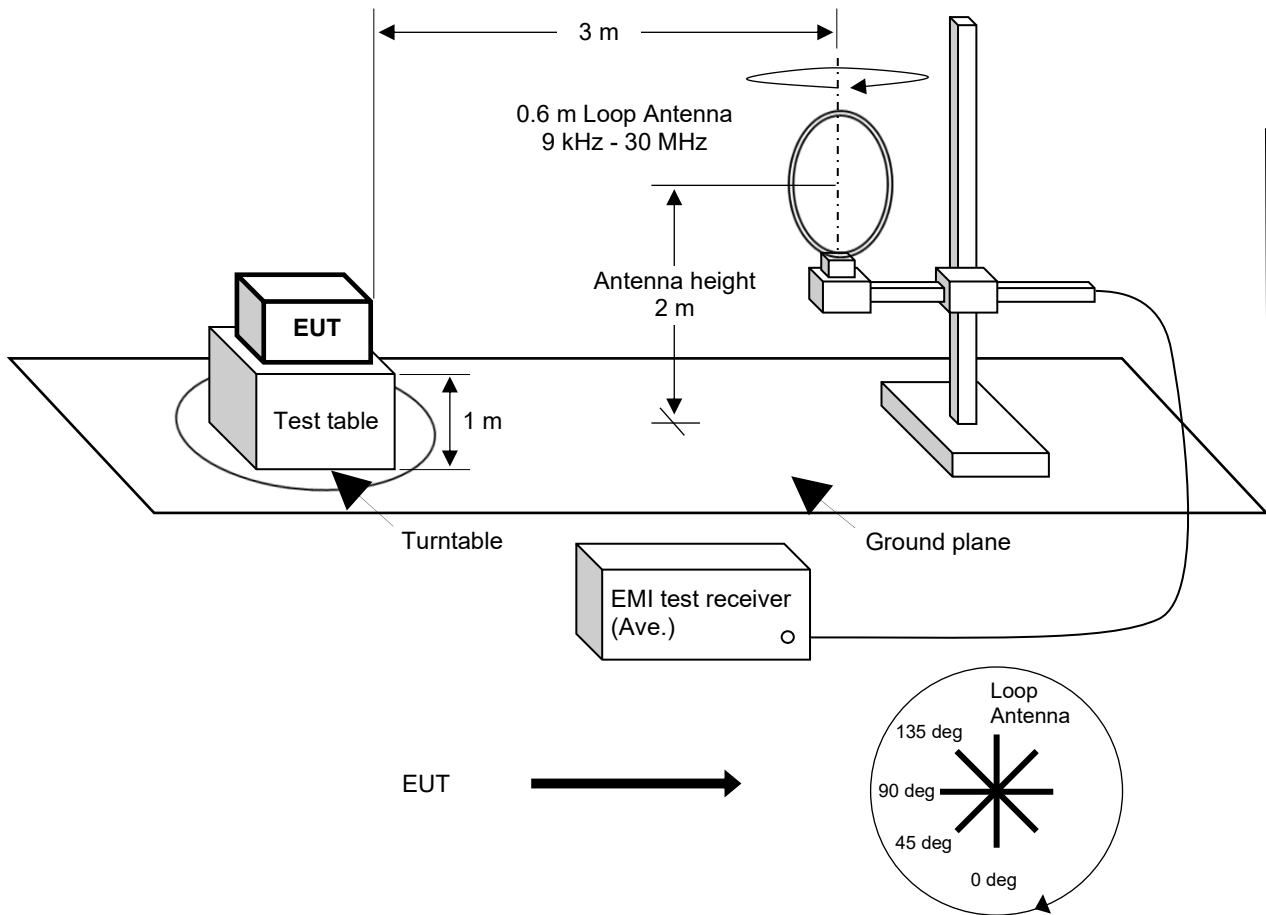
Photo of the Test Set-up

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.

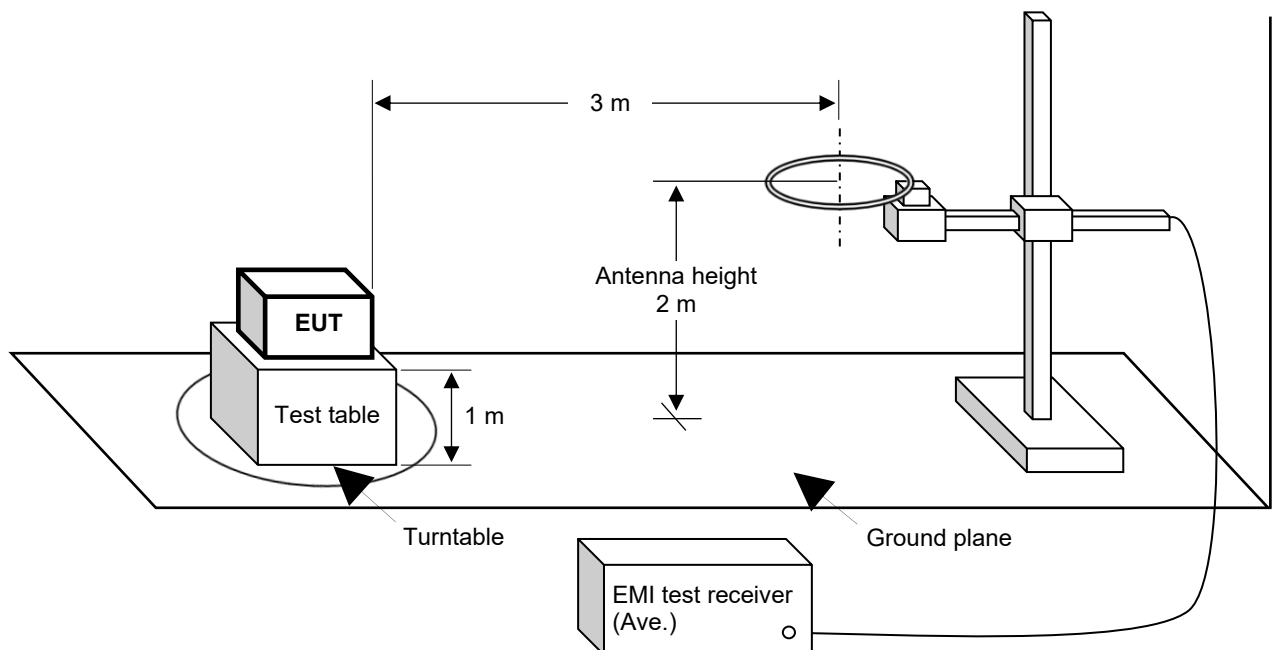
Final measurement : Emission levels (Ave. value) were measured by means of the test receiver referring the result of Pre-check.

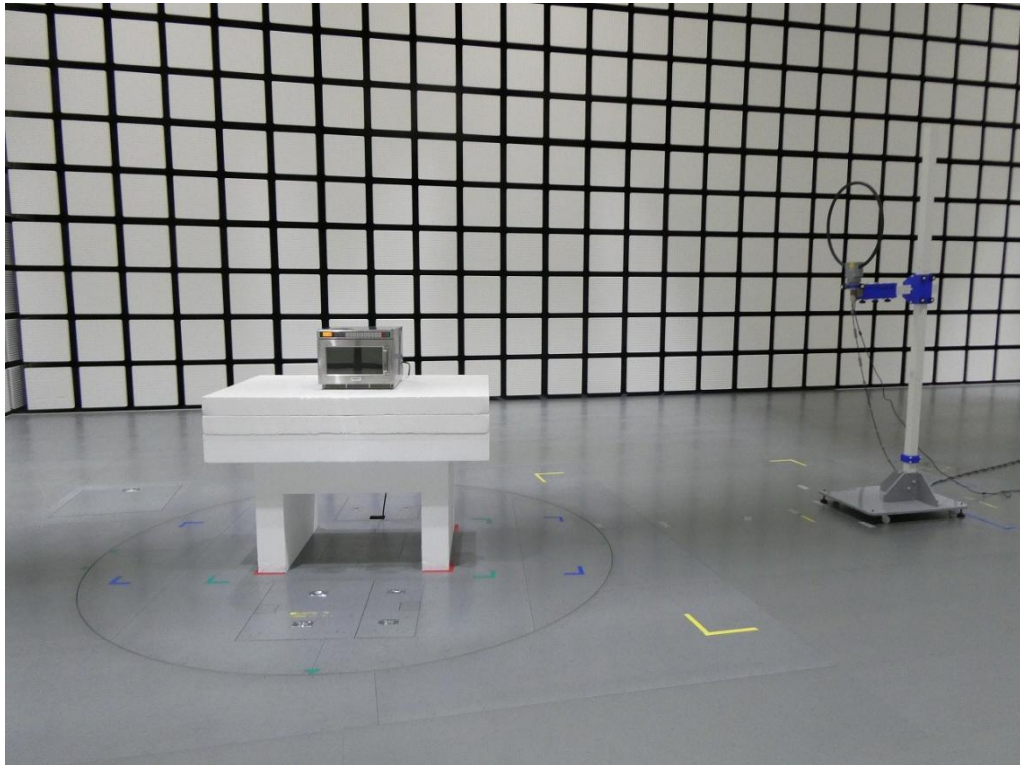
Drawing:

Vertical axis

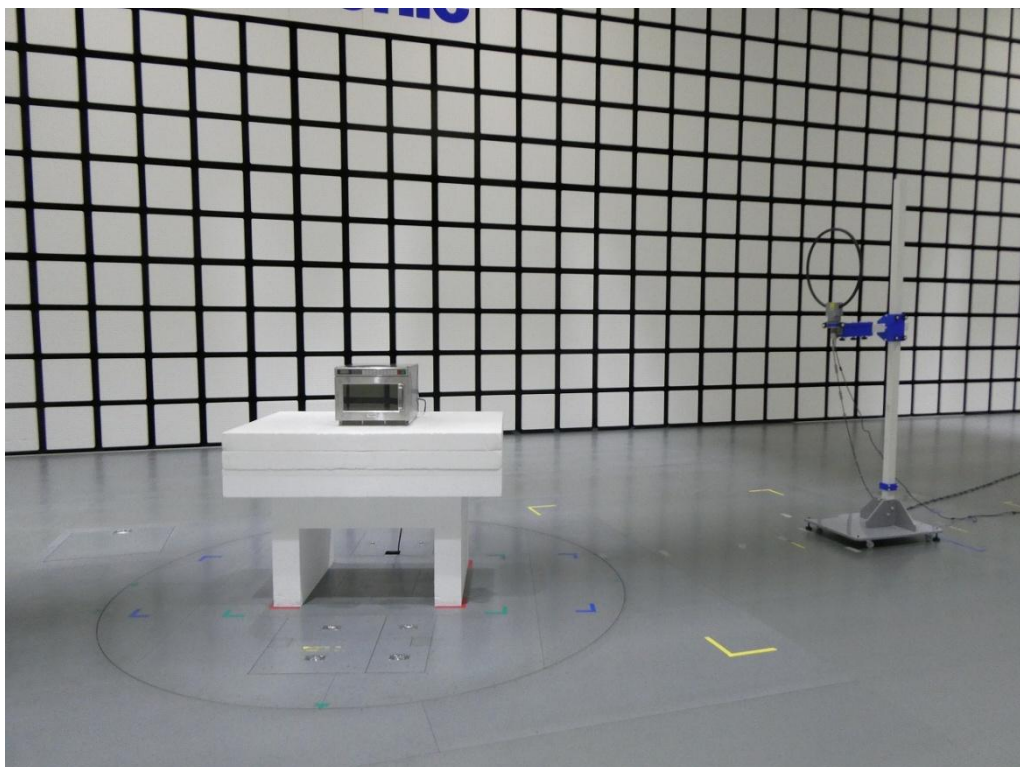


Horizontal Axis

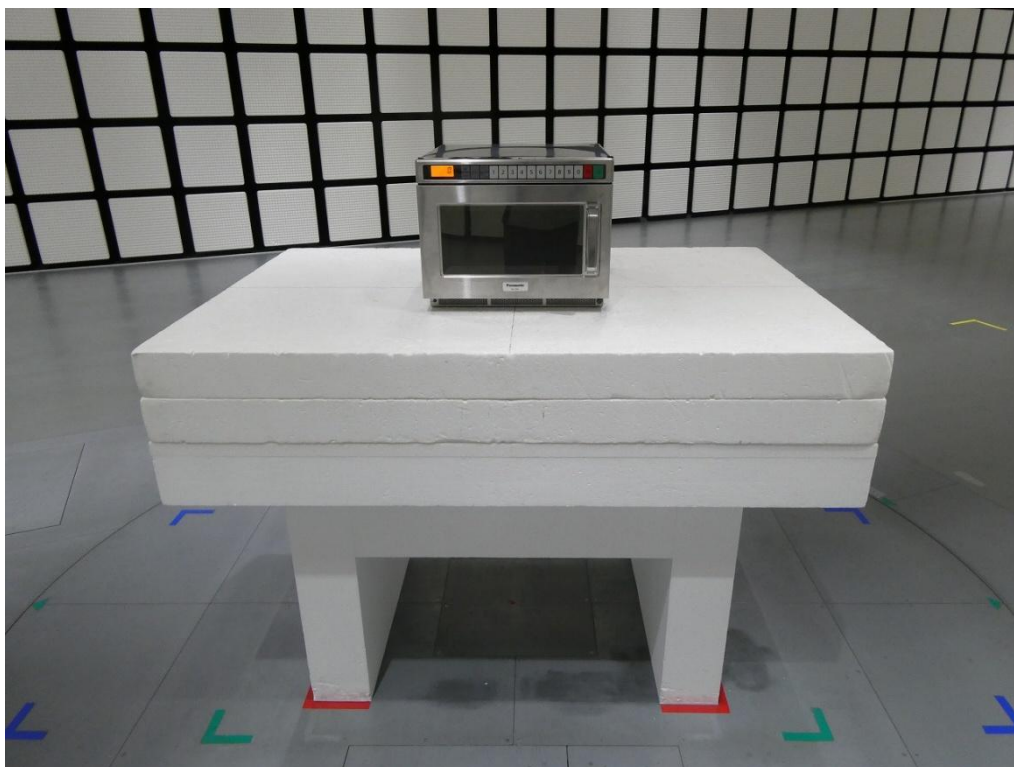




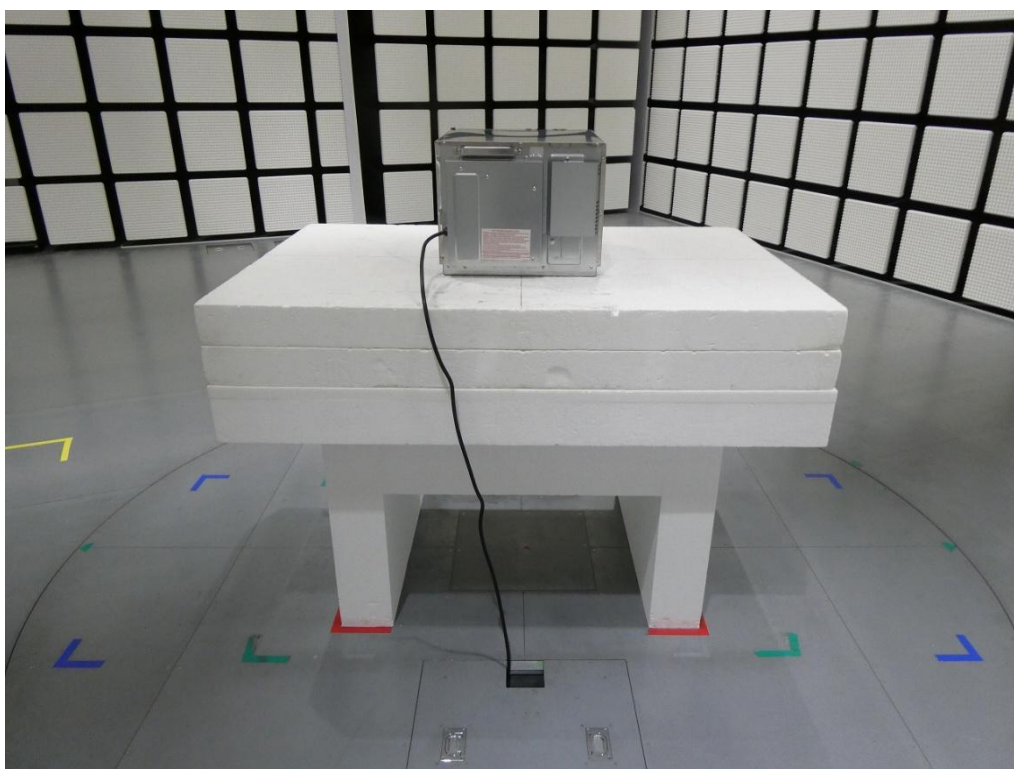
Worst angle AC 208 V / 60 Hz



Worst angle AC 240 V / 60 Hz



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 48.430 $\mu\text{V/m}$ at 177.22 MHz
(AV detector receiver with Vertical antenna polarization)

• AC 240 V / 60 Hz

Min. limit margin 48.240 $\mu\text{V/m}$ at 174.25 MHz
(AV detector receiver with Vertical 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 177.22 MHz,
Result at 3 m 17.6 dB $\mu\text{V/m}$

Result at 300 m [$\mu\text{V/m}$]
 $= 10^{(17.6 / 20) * (3/300)}$
 $= 0.076 \mu\text{V/m}$

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: 1700 W
Test Voltage : AC 208 V / 60Hz
Load : 1400 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.]
77.86	H	23.8	-17.7	6.1	-33.9	0.020	48.506	48.486	251	232
92.61	H	25.6	-15.3	10.3	-29.7	0.033	48.506	48.473	193	241
177.22	H	25.0	-7.4	17.6	-22.4	0.076	48.506	48.430	188	249
212.24	H	27.1	-18.9	8.2	-31.8	0.026	48.506	48.480	126	255
247.94	H	24.4	-17.1	7.3	-32.7	0.023	48.506	48.483	111	95
30.99	V	18.1	-7.0	11.1	-28.9	0.036	48.506	48.470	108	137
75.20	V	22.3	-18.0	4.3	-35.7	0.016	48.506	48.490	143	259
93.24	V	24.9	-15.2	9.7	-30.3	0.031	48.506	48.475	100	348
176.49	V	20.1	-7.4	12.7	-27.3	0.043	48.506	48.463	170	315
229.68	V	26.2	-18.0	8.2	-31.8	0.026	48.506	48.480	214	165
782.06	V	16.1	-4.6	11.5	-28.5	0.038	48.506	48.468	160	200

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: 1700 W

Test Voltage : AC 240 V / 60Hz

Load : 1400 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.]
77.89	H	24.4	-17.7	6.7	-33.3	0.022	48.302	48.280	229	234
92.69	H	27.9	-15.3	12.6	-27.4	0.043	48.302	48.259	198	238
174.25	H	23.5	-7.6	15.9	-24.1	0.062	48.302	48.240	181	258
211.63	H	25.3	-18.9	6.4	-33.6	0.021	48.302	48.281	133	259
243.40	H	21.6	-17.3	4.3	-35.7	0.016	48.302	48.286	126	199
783.40	H	17.1	-4.5	12.6	-27.4	0.043	48.302	48.259	231	220
93.02	V	27.2	-15.2	12.0	-28.0	0.040	48.302	48.262	108	352
176.85	V	21.1	-7.4	13.7	-26.3	0.048	48.302	48.254	108	195
232.78	V	24.1	-17.8	6.3	-33.7	0.021	48.302	48.281	185	176
279.00	V	17.0	-16.2	0.8	-39.2	0.011	48.302	48.291	140	166

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.

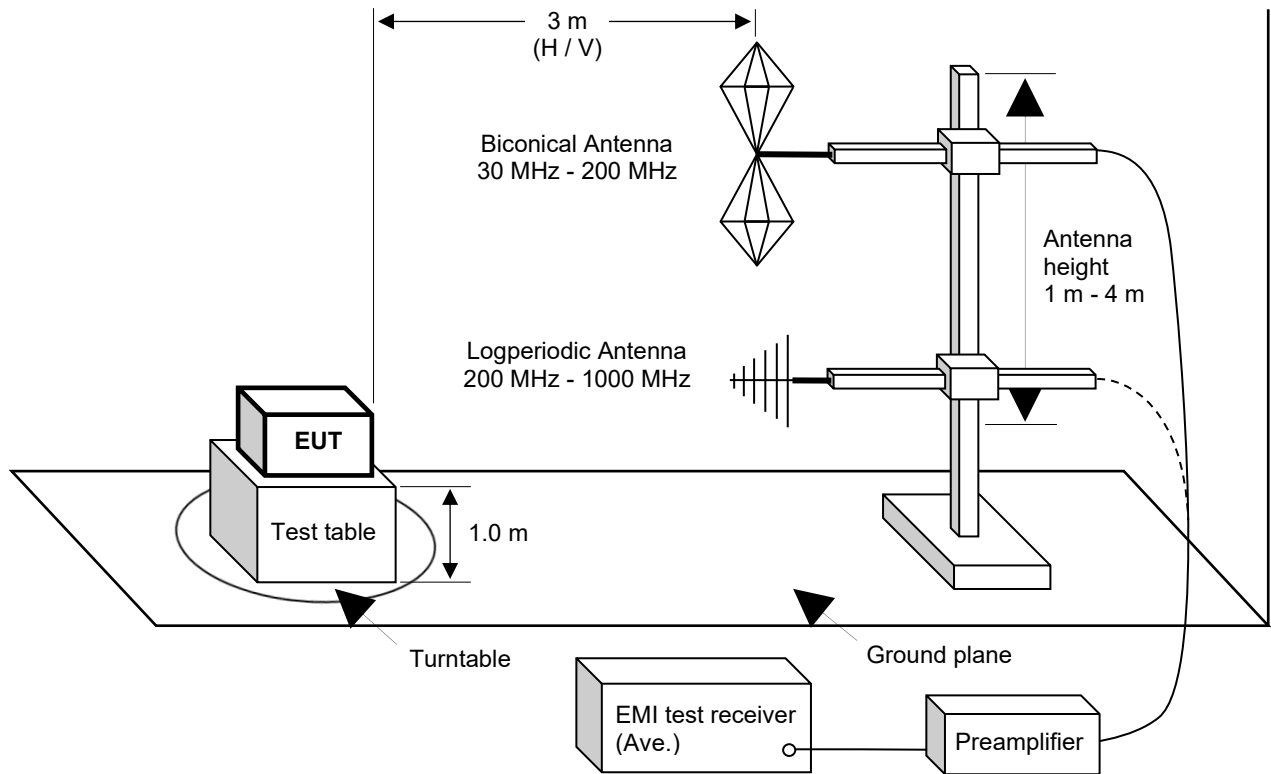
Cables for peripherals were placed in a position to produce maximum emissions as determined by experimentation, and the operation mode was selected for maximum emission.

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.

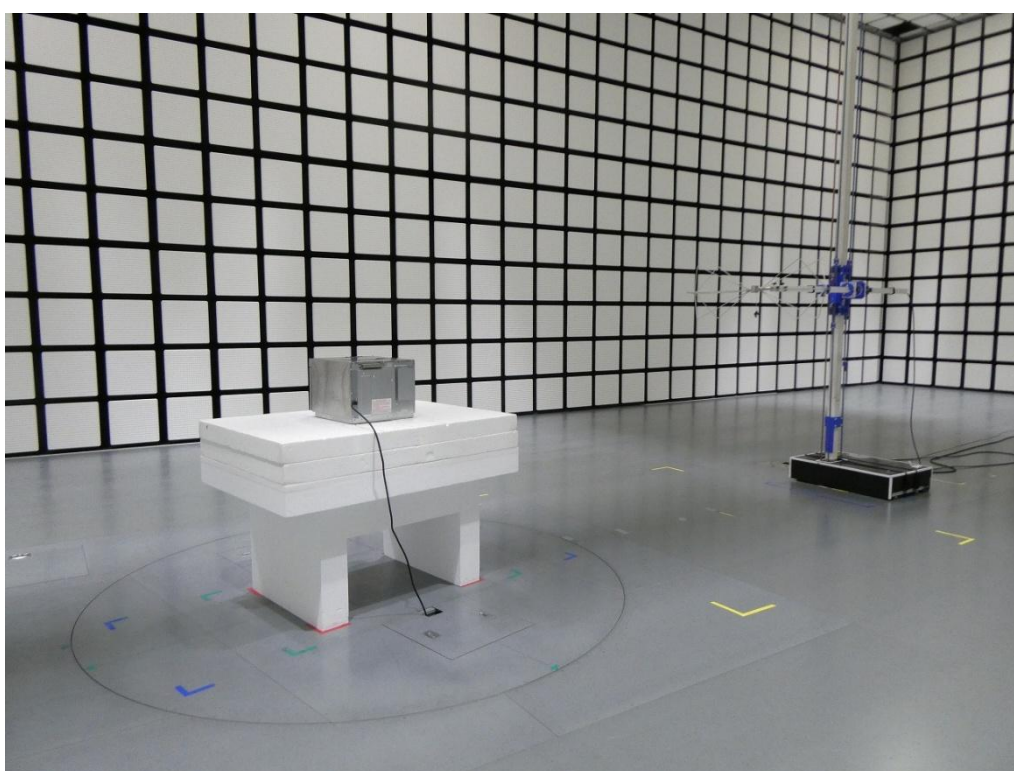
The emission levels from the EUT were maximized changing conditions; Turntable rotation, Antenna height and arrangement of the EUT.

Drawing :

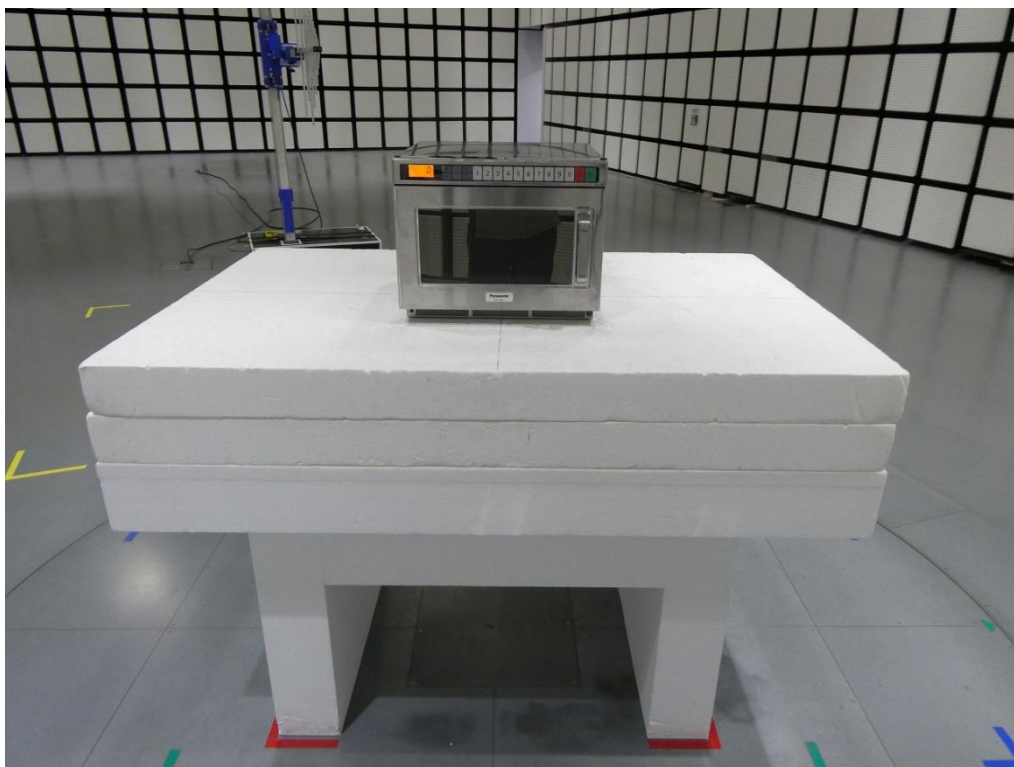




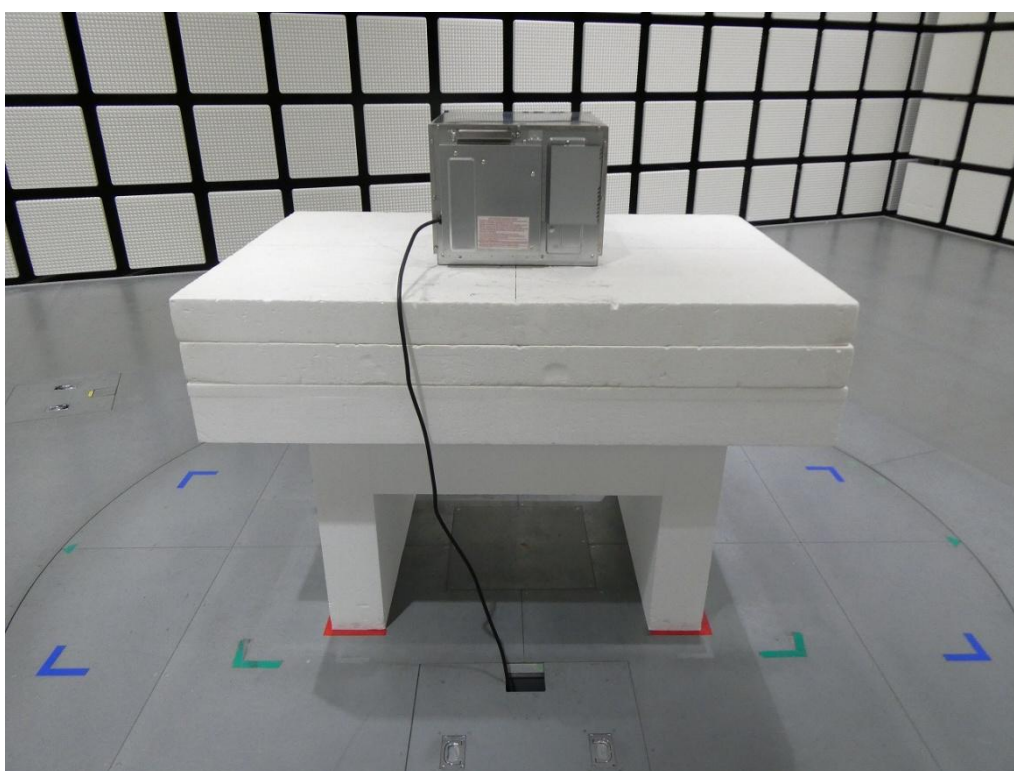
Worst angle AC 208 V / 60 Hz



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 39.065 $\mu\text{V/m}$ at 4912.31 MHz
(AV detector signal analyzer with Horizontal antenna polarization at 450 ml Right Front Corner)

• AC 240 V / 60 Hz

Min. limit margin 38.186 $\mu\text{V/m}$ at 4907.65 MHz
(AV detector signal analyzer with Vertical antenna polarization at 450 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 4907.65 MHz,
Result at 3 m 60.1 dB $\mu\text{V/m}$

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

$$= 0.01 \times 10^{(60.1 / 20)}$$

$$= 10.116 \mu\text{V/m}$$

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: 25 December, 2025
 Environment: 21 deg.C / 50 % / 981 hPa

Detector Function : Average
 Test Mode : High Power Mode: 1700 W

Test Voltage : AC 208 V / 60Hz
 Load : 1400 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.]
2203.16	H	25.3	29.8	55.1	568.9	0.007	3.982	48.506	44.524	158	263
2722.32	H	14.8	29.9	44.7	171.8	0.007	1.203	48.506	47.303	158	211
4305.99	H	52.9	-7.4	45.5	188.4	0.010	1.884	48.506	46.622	107	253
4917.67	H	54	-6.4	47.6	239.9	0.010	2.399	48.506	46.107	150	137
6637.41	H	53.2	-7.6	45.6	190.5	0.010	1.905	48.506	46.601	105	199
7386.05	H	43	-9	34.0	50.1	0.010	0.501	48.506	48.005	105	309
9821.08	H	44.4	-5.9	38.5	84.1	0.010	0.841	48.506	47.665	117	306
19639.89	H	35.8	0.4	36.2	64.6	0.010	0.646	48.506	47.860	100	44
22053.17	H	38.2	-0.1	38.1	80.4	0.010	0.804	48.506	47.702	100	248
2197.57	V	20.6	29.8	50.4	331.1	0.007	2.318	48.506	46.188	147	349
2708.19	V	19.3	29.8	49.1	285.1	0.007	1.996	48.506	46.510	100	50
4299.88	V	62.3	-7.5	54.8	549.5	0.010	5.495	48.506	43.011	100	318
4926.12	V	59.2	-6.4	52.8	436.5	0.010	4.365	48.506	44.141	100	359
6636.93	V	58.6	-7.6	51.0	354.8	0.010	3.548	48.506	44.958	115	117
7145.46	V	57.1	-8.3	48.8	275.4	0.010	2.754	48.506	45.752	100	177
7382.88	V	48.2	-9.0	39.2	91.2	0.010	0.912	48.506	47.594	116	35
17244.12	V	43.5	-3.5	40.0	100.0	0.010	1.000	48.506	47.506	100	175
19688.23	V	33.8	0.4	34.2	51.3	0.010	0.513	48.506	47.993	141	352
22107.46	V	36.4	-0.3	36.1	63.8	0.010	0.638	48.506	47.868	150	200

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 : 1400 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.]
4921.50	H	62.1	-6.4	55.7	609.5	0.010	6.095	48.506	42.411	100	153
7383.88	H	49.3	-9.0	40.3	103.5	0.010	1.035	48.506	47.471	124	163
4918.28	V	61	-6.4	54.6	537.0	0.010	5.370	48.506	43.136	101	3
7407.89	V	49.3	-9	40.3	103.5	0.010	1.035	48.506	47.471	144	180

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 : 600 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.]
4903.92	H	60.4	-6.4	54.0	501.2	0.010	5.012	48.506	43.494	111	158
7404.33	H	48.6	-9.0	39.6	95.5	0.010	0.955	48.506	47.551	100	77
4913.74	V	58.6	-6.4	52.2	407.4	0.010	4.074	48.506	44.432	100	7
7409.09	V	51.4	-9	42.4	131.8	0.010	1.318	48.506	47.188	110	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 : 600 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.]
4912.31	H	65.9	-6.4	59.5	944.1	0.010	9.441	48.506	39.065	144	150
7342.19	H	49.8	-8.9	40.9	110.9	0.010	1.109	48.506	47.397	132	196
4917.89	V	64.9	-6.4	58.5	841.4	0.010	8.414	48.506	40.092	101	115
7407.22	V	54.6	-9	45.6	190.5	0.010	1.905	48.506	46.601	101	339

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: 25 December, 2025
Environment: 21 deg.C / 50 % / 981 hPa

Detector Function : Average
Test Mode : High Power Mode: 1700 W

Test Voltage : AC 240 V / 60Hz
Load : 1400 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.]
2201.29	H	22.6	29.8	52.4	416.9	0.007	2.918	48.302	45.384	186	306
2712.32	H	13.9	29.8	43.7	153.1	0.007	1.072	48.302	47.230	101	25
4294.22	H	61.4	-7.5	53.9	495.5	0.010	4.955	48.302	43.347	143	327
4903.71	H	57.1	-6.4	50.7	342.8	0.010	3.428	48.302	44.874	100	138
6488.05	H	51.3	-7.4	43.9	156.7	0.010	1.567	48.302	46.735	114	135
7355.67	H	46.3	-8.9	37.4	74.1	0.010	0.741	48.302	47.561	100	352
9809.48	H	50.9	-5.9	45.0	177.8	0.010	1.778	48.302	46.524	100	136
19637.62	H	39.1	0.4	39.5	94.4	0.010	0.944	48.302	47.358	129	164
24580.96	H	35.7	-1.3	34.4	52.5	0.010	0.525	48.302	47.777	105	132
2201.76	V	24.1	29.8	53.9	495.5	0.007	3.468	48.302	44.834	180	311
2716.30	V	15.5	29.9	45.4	186.2	0.007	1.303	48.302	46.999	126	289
4292.93	V	66	-7.5	58.5	841.4	0.010	8.414	48.302	39.888	118	317
4920.18	V	52.8	-6.4	46.4	208.9	0.010	2.089	48.302	46.213	101	336
6486.92	V	54.4	-7.4	47.0	223.9	0.010	2.239	48.302	46.063	100	349
6770.57	V	54.7	-7.9	46.8	218.8	0.010	2.188	48.302	46.114	122	33
7367.85	V	43.3	-8.9	34.4	52.5	0.010	0.525	48.302	47.777	100	262
19670.24	V	37	0.4	37.4	74.1	0.010	0.741	48.302	47.561	125	1
22057.69	V	36.7	-0.1	36.6	67.6	0.010	0.676	48.302	47.626	125	17

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 : 1400 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.]
4917.08	H	62.7	-6.4	56.3	653.1	0.010	6.531	48.302	41.771	149	154
7385.18	H	52.2	-9.0	43.2	144.5	0.010	1.445	48.302	46.857	113	297
4915.41	V	60.3	-6.4	53.9	495.5	0.010	4.955	48.302	43.347	149	128
7413.93	V	47	-9	38.0	79.4	0.010	0.794	48.302	47.508	111	185

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 : 600 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.]
4908.94	H	60.7	-6.4	54.3	518.8	0.010	5.188	48.302	43.114	100	156
7385.80	H	47.6	-9.0	38.6	85.1	0.010	0.851	48.302	47.451	124	128
4906.11	V	60.2	-6.4	53.8	489.8	0.010	4.898	48.302	43.404	113	116
7403.77	V	44.8	-9	35.8	61.7	0.010	0.617	48.302	47.685	101	32

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 : 600 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.]
4912.05	H	64.7	-6.4	58.3	822.2	0.010	8.222	48.302	40.080	100	166
7331.55	H	49.5	-8.9	40.6	107.2	0.010	1.072	48.302	47.230	150	65
4907.65	V	66.5	-6.4	60.1	1011.6	0.010	10.116	48.302	38.186	150	6
7414.60	V	53.6	-9	44.6	169.8	0.010	1.698	48.302	46.604	101	7

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.

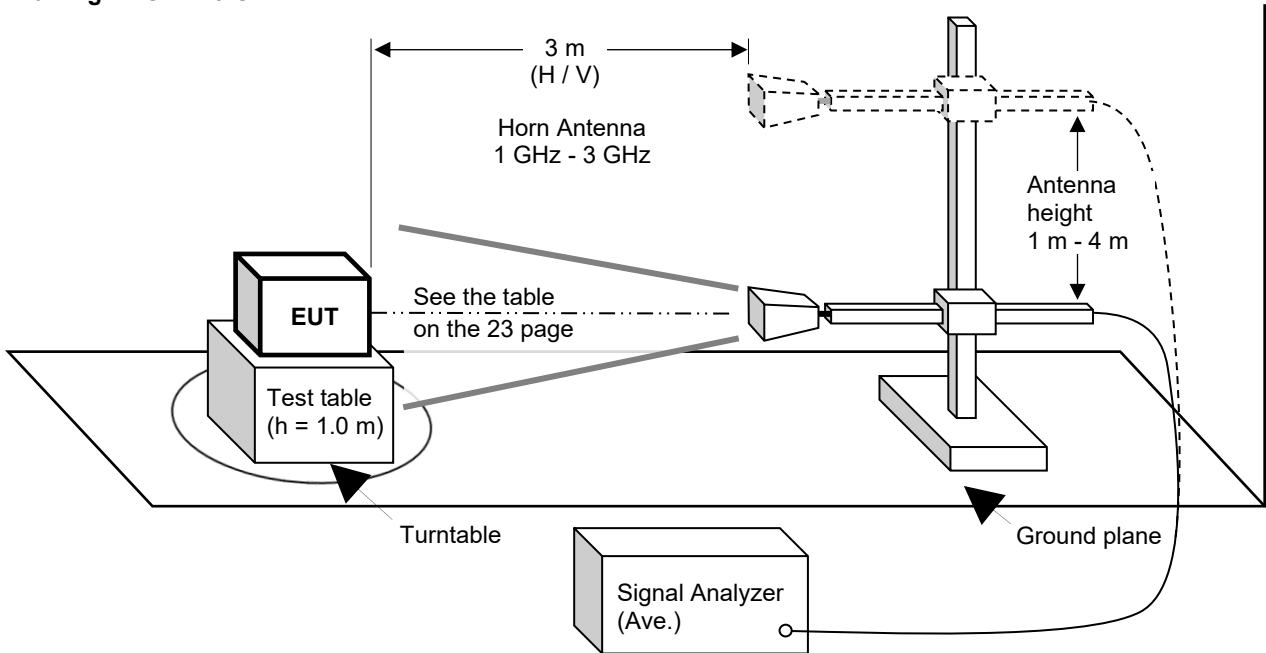
Pre-check: Radiated emission levels (Ave. value) which have small margin for the regulation were measured by means of spectrum analyzer changing antenna movement (1 m - 4 m) and table rotation (0 degree - 360 degree).

Final measurement: Emission levels (Ave. value) were measured by means of the signal analyzer (1 GHz - 25 GHz) referring

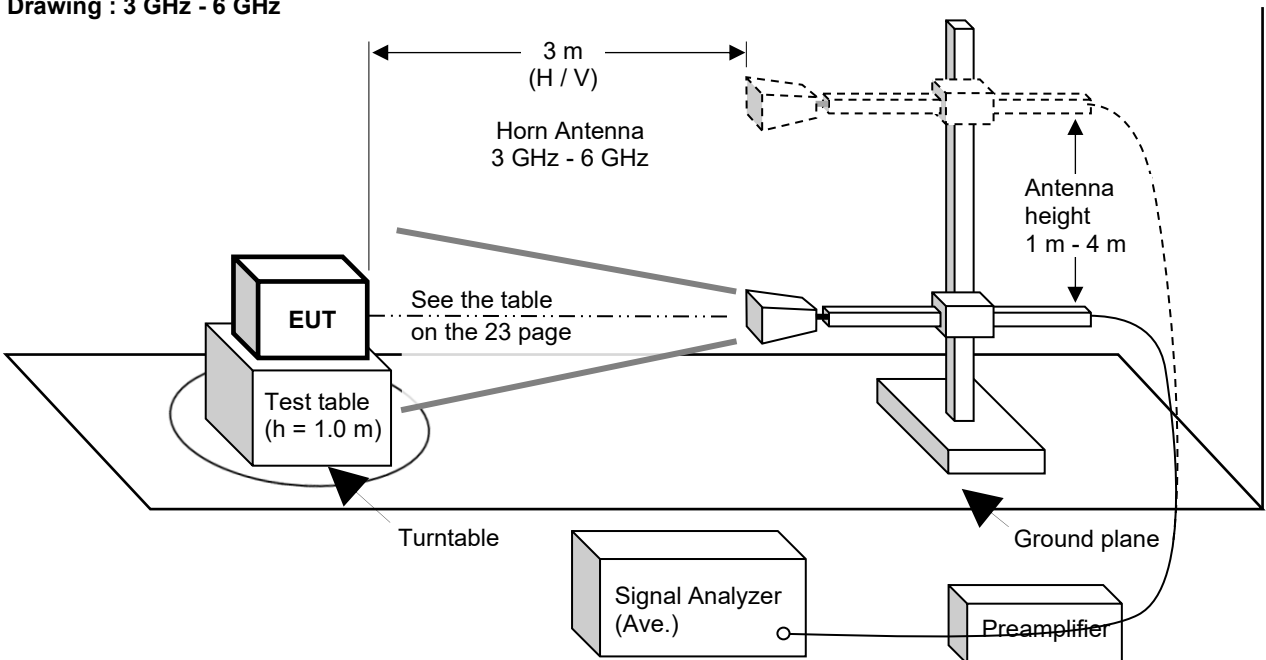
the result of Pre-check.

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

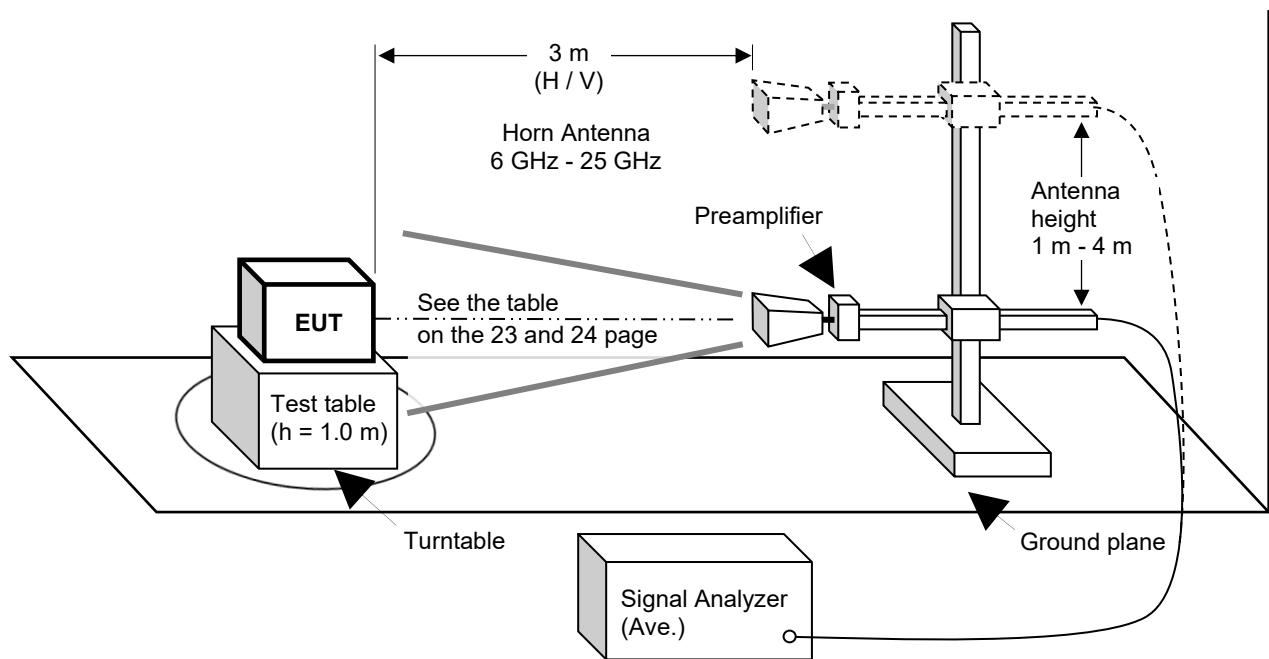
Drawing : 1 GHz - 3 GHz

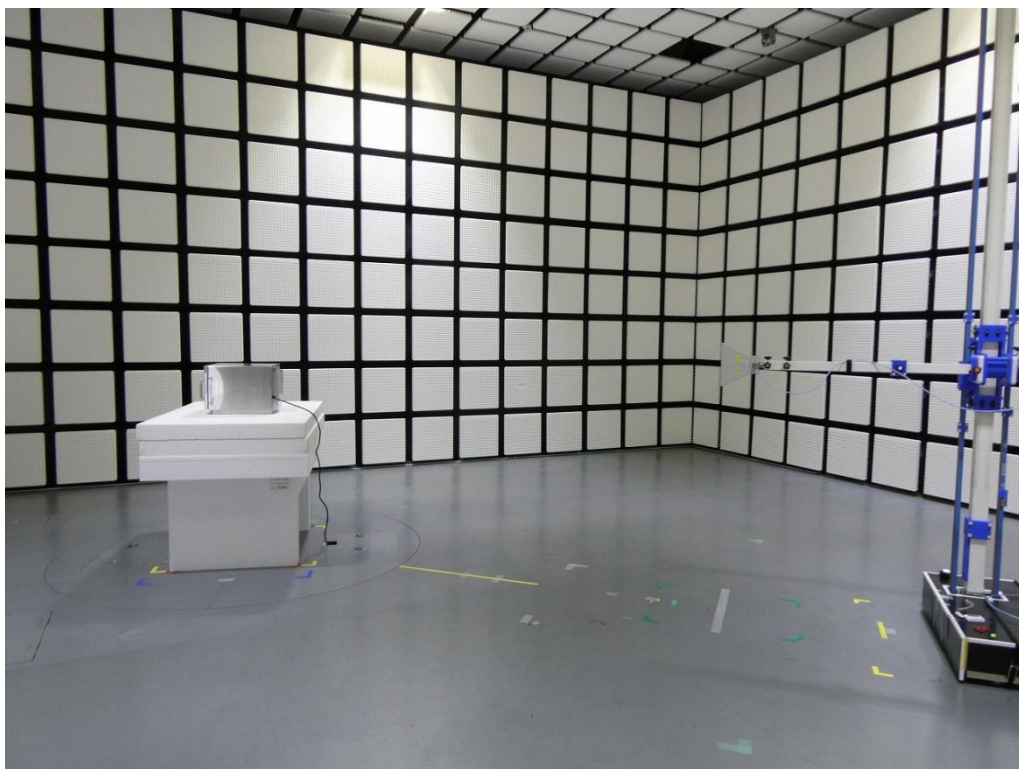


Drawing : 3 GHz - 6 GHz



Drawing : 6 GHz - 25 GHz

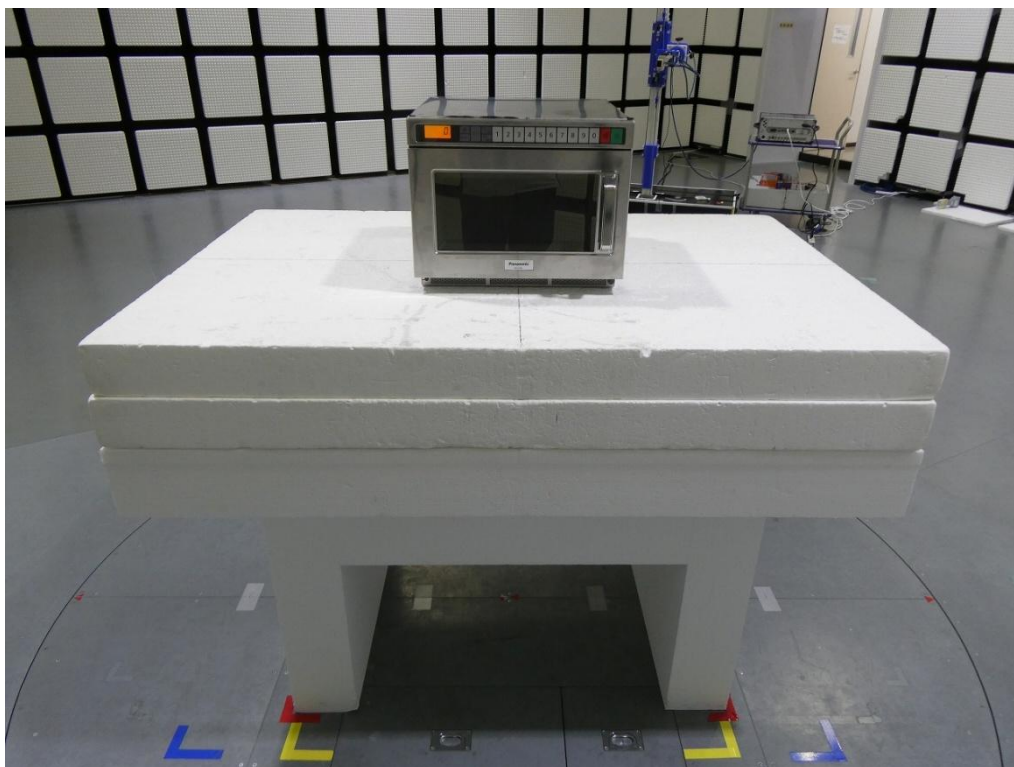




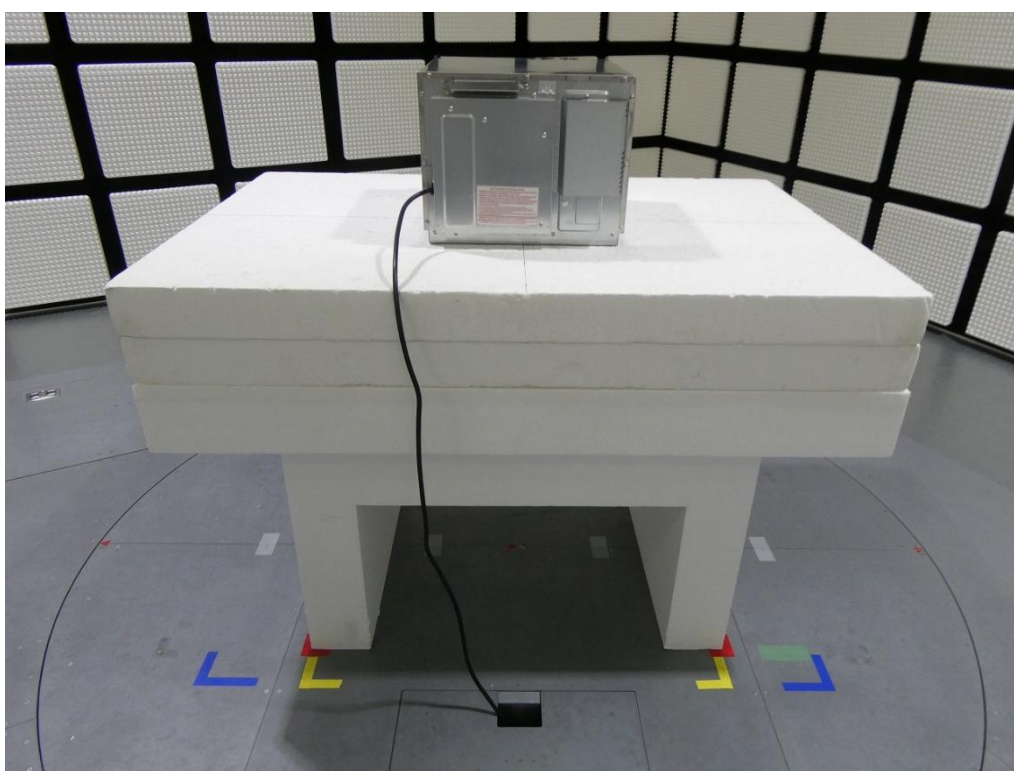
Worst angle AC 208 V / 60 Hz



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 2000 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

2.44300 GHz – 2.46446 GHz (2000 ml ~ 400 ml / Load)

Date: 26 December, 2025

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

	Time (minutes)	Frequency (GHz)
100%	0	2.45362
	2	2.44828
	4	2.45376
	6	2.45218
	8	2.44922
	10	2.46244
	12	2.46050
	14	2.45100
	16	2.45252
	18	2.45804
	20	2.44730
	22	2.44300
	24	2.44574
	26	2.44562
	28	2.45292
	30	2.45816
	32	2.45462
	34	2.46446
	36	2.45640
	38	2.46122
	40	2.45226
	42	2.45798
	44	2.44888
	46	2.44968
	48	2.45150
	50	2.45066
	52	2.44736
	54	2.46250
	56	2.45772
20 %	58	2.46042

• AC 240 V / 60 Hz

Maximum frequency variation

Variation of frequency with time, using the Load

2.44722 GHz – 2.46648 GHz (2000 ml ~ 400 ml / Load)

Date: 26 December, 2025

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

	Time (minutes)	Frequency (GHz)
100%	0	2.45226
	2	2.45076
	4	2.45110
	6	2.45148
	8	2.45042
	10	2.45676
	12	2.45610
	14	2.45442
	16	2.45286
	18	2.45194
	20	2.44804
	22	2.44722
	24	2.44990
	26	2.45274
	28	2.46012
	30	2.45600
	32	2.46648
	34	2.45230
	36	2.45330
	38	2.45988
	40	2.45668
	42	2.45182
	44	2.45238
	46	2.45190
	48	2.46176
	50	2.46430
	52	2.45938
	54	2.46026
20 %	56	2.45990

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 2000 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

2.44690 GHz – 2.46090 GHz (166.4 V – 260.0 V / 2000 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	2.45528
85	176.8	2.45244
90	187.2	2.45460
95	197.6	2.46090
100	208.0	2.45868
105	218.4	2.45352
110	228.8	2.45224
115	239.2	2.44690
120	249.6	2.45342
125	260.0	2.45114

• AC 240 V / 60 Hz

Variation of frequency for Line Voltage variation

2.44854 GHz – 2.45702 GHz (192.0 V – 300.0 V / 2000 ml Load)

EUT Warm-up Time: 10 minutes

Date: 26 December, 2025

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

input voltage (%)	Voltage (V)	Frequency (GHz)
80	192.0	2.44976
85	204.0	2.44952
90	216.0	2.44926
95	228.0	2.45006
100	240.0	2.44854
105	252.0	2.45040
110	264.0	2.44968
115	276.0	2.44904
120	288.0	2.45648
125	300.0	2.45702

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



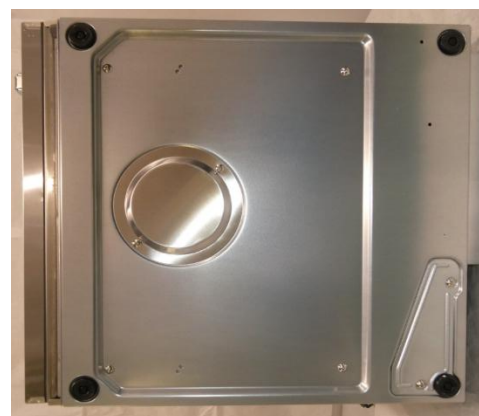
Left View



Right View



Top View



Bottom View



Front View with Door Open