

RADIO TEST REPORT

Test Report No. 16453041H-R1

Customer	SINFONIA TECHNOLOGY CO., LTD.
Description of EUT	Digital Photo Printer
Model Number of EUT	CHC-S2195
FCC ID	ZQU-D1105800
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	October 7, 2026
Remarks	-

Representative test engineerJunya Okuno
Engineer**Approved by**Satofumi Matsuyama
Test report signatory

CERTIFICATE 5107.02

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
☒ There is no testing item of "Non-accreditation".

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 27.0

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- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

REVISION HISTORY

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	16453041H	September 9, 2026	-
1	16453041H-R1	October 7, 2026	3.3 Summary of Test Results Revised the FCC 15.31(e) statement: From: "The stable voltage was supplied by the end product which was required to have a power supply regulator." To: "This EUT provides stable voltage constantly to RF part regardless of input voltage." APPENDIX 1: Test data (Page 18 to 19) Removed 30 MHz data from the spurious emission results.

Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	ICES	Interference-Causing Equipment Standard
AC	Alternating Current	IEC	International Electrotechnical Commission
AFH	Adaptive Frequency Hopping	IEEE	Institute of Electrical and Electronics Engineers
AM	Amplitude Modulation	IF	Intermediate Frequency
Amp, AMP	Amplifier	ILAC	International Laboratory Accreditation Conference
ANSI	American National Standards Institute	ISED	Innovation, Science and Economic Development Canada
Ant, ANT	Antenna	ISO	International Organization for Standardization
AP	Access Point	JAB	Japan Accreditation Board
ASK	Amplitude Shift Keying	LAN	Local Area Network
Atten., ATT	Attenuator	LIMS	Laboratory Information Management System
AV	Average	MCS	Modulation and Coding Scheme
BPSK	Binary Phase-Shift Keying	MRA	Mutual Recognition Arrangement
BR	Bluetooth Basic Rate	N/A	Not Applicable
BT	Bluetooth	NIST	National Institute of Standards and Technology
BT LE	Bluetooth LE	NS	No signal detect.
BW	BandWidth	NSA	Normalized Site Attenuation
Cal Int	Calibration Interval	NVLAP	National Voluntary Laboratory Accreditation Program
CCK	Complementary Code Keying	OBW	Occupied Band Width
Ch., CH	Channel	OFDM	Orthogonal Frequency Division Multiplexing
CISPR	Comite International Special des Perturbations Radioelectriques	P/M	Power meter
CW	Continuous Wave	PCB	Printed Circuit Board
DBPSK	Differential BPSK	PER	Packet Error Rate
DC	Direct Current	PHY	Physical Layer
D-factor	Distance factor	PK	Peak
DFS	Dynamic Frequency Selection	PN	Pseudo random Noise
DQPSK	Differential QPSK	PRBS	Pseudo-Random Bit Sequence
DSSS	Direct Sequence Spread Spectrum	PSD	Power Spectral Density
EDR	Enhanced Data Rate	QAM	Quadrature Amplitude Modulation
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	QP	Quasi-Peak
EMC	ElectroMagnetic Compatibility	QPSK	Quadri-Phase Shift Keying
EMI	ElectroMagnetic Interference	RBW	Resolution Band Width
EN	European Norm	RDS	Radio Data System
ERP, e.r.p.	Effective Radiated Power	RE	Radio Equipment
EU	European Union	RF	Radio Frequency
EUT	Equipment Under Test	RMS	Root Mean Square
Fac.	Factor	RSS	Radio Standards Specifications
FCC	Federal Communications Commission	Rx	Receiving
FHSS	Frequency Hopping Spread Spectrum	SA, S/A	Spectrum Analyzer
FM	Frequency Modulation	SG	Signal Generator
Freq.	Frequency	SVSWR	Site-Voltage Standing Wave Ratio
FSK	Frequency Shift Keying	TR	Test Receiver
GFSK	Gaussian Frequency-Shift Keying	Tx	Transmitting
GNSS	Global Navigation Satellite System	VBW	Video BandWidth
GPS	Global Positioning System	Vert.	Vertical
Hori.	Horizontal	WLAN	Wireless LAN

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SECTION 1: Customer Information

Company Name	SINFONIA TECHNOLOGY CO., LTD.
Address	100 Takegahana-cho, Ise-shi, Mie-ken 516-8550 JAPAN
Telephone Number	+81-596-36-1286
Contact Person	Koichi Nishikawa

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Digital Photo Printer
Model Number	CHC-S2195
Serial Number	Refer to SECTION 4.2
Condition	Production model
Modification	No Modification by the test lab
Receipt Date	August 19, 2026
Test Date	August 24 to 27, 2026

2.2 Product Description

General Specification

Rating	AC 100 V to 240 V, 50 / 60 Hz
Operating Temperature	10 deg. C to 35 deg. C

Radio Specification

RFID

Equipment Type	Transceiver
Frequency of Operation	13.56 MHz
Type of Modulation	ASK

SECTION 3: Test Summary

3.1 Test Specification

Test Specification	FCC Part 15 Subpart C The latest version on the first day of the testing period
Title	FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators Section 15.207 Conducted limits Section 15.225 Operation within the band 13.110-14.010 MHz.

* Also the EUT complies with FCC Part 15 Subpart B.

3.2 Reference Standards

ANSI/USEMCSC C63.2-2023
ANSI C63.4-2014+C63.4a-2017
ANSI C63.5-2017
ANSI C63.10-2020
ANSI/USEMCSC C63.10/Cor 1-2023
ANSI/USEMCSC C63.10a-2024 (incl. Errata)
ANSI C63.25.1-2018

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Conducted Emission	<FCC> Section 15.207 <ISED> RSS-Gen 8.8	Complied	-
Electric Field Strength of Fundamental Emission	<FCC> Section 15.225(a) <ISED> RSS-210 B.6 (a)	Complied	Radiated
Spectrum Mask	<FCC> Section 15.225(b)(c) <ISED> RSS-210 B.6 (a)	Complied	Radiated
20 dB Bandwidth	<FCC> Section 15.215(c) <ISED> -	Complied	Radiated
Electric Field Strength of Spurious Emission	<FCC> Section 15.209 Section 15.225 (d) <ISED> RSS-210 B.6 (a) RSS-Gen 8.9	Complied	Radiated
Frequency Tolerance	<FCC> Section 15.225(e) <ISED> RSS-210 B.6 (b)	Complied	Radiated
Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.			

FCC Part 15.31 (e)

This EUT provides stable voltage constantly to RF part regardless of input voltage.
Therefore, the EUT complies with the requirement.
However, the supply voltage was varied and tested at 85 % and 115 % of the nominal rated supply voltage during frequency tolerance test according to Section 15.225(e).

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT.
Therefore, the equipment complies with the antenna requirement of Section 15.203.

3.4 Addition to standard

Item	Specification	Results	Remarks
99% emission bandwidth	<FCC> Reference data	-	Radiated

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.
Other than above, no addition, exclusion nor deviation has been made from the standard.

3.5 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.
Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k = 2$.

Conducted emission

Item	Frequency range	Unit	Calculated Uncertainty (+/-)
AMN (LISN)	0.15 MHz to 30 MHz	dB	3.4

Radiated emission

Measurement distance	Frequency range	Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz	dB	4.8
10 m		dB	4.7
3 m	30 MHz to 200 MHz	Horizontal	5.0
		Vertical	5.0
	200 MHz to 1000 MHz	Horizontal	5.2
		Vertical	6.2
10 m	30 MHz to 200 MHz	Horizontal	5.5
		Vertical	5.4
	200 MHz to 1000 MHz	Horizontal	5.5
		Vertical	5.5
3 m	1 GHz to 6 GHz	dB	5.1
	6 GHz to 18 GHz	dB	5.5
1 m	6 GHz to 18 GHz	dB	5.5
	18 GHz to 26.5 GHz	dB	5.7
	26.5 GHz to 40 GHz	dB	4.8
0.5 m	18 GHz to 40 GHz	dB	5.8

-20 dB Bandwidth and 99% Occupied Bandwidth, Frequency Tolerance

Item	Unit	Calculated Uncertainty (+/-)
Bandwidth (OBW)	%	0.96
Frequency Readout (Frequency counter)	ppm	0.67
Frequency Readout (Spectrum analyzer frequency readout function)	ppm	2.13

3.6 Test Location

UL Japan, Inc. Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber (SAC1)	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber (SAC2)	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber (SAC3)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room (PR3)	3 m
No.3 shielded room (SR3)	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber (SAC4)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room (PR4)	3 m
No.4 shielded room (SR4)	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber (SAC5)	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room (MR5)	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room (SR6)	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room (MR6)	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room (SR7)	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room (MR8)	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room (MR9)	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room (SR10)	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room (MR11)	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room (MR12)	2.6 x 3.4 x 2.5	N/A	-	-
Large Chamber	16.9 x 22.1 x 10.17	16.9 x 22.1	-	10 m
Small Chamber	5.3 x 6.69 x 3.59	5.3 x 6.69	-	-

* Size of vertical conducting plane (for Conducted Emission test): 2.0 x 2.0 m for No.1, No.2, No.3, No.4, and No.5 semi-anechoic chambers and No.3 and No.4 shielded rooms.

3.7 Test data, Test instruments, and Test set up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

The mode is used:

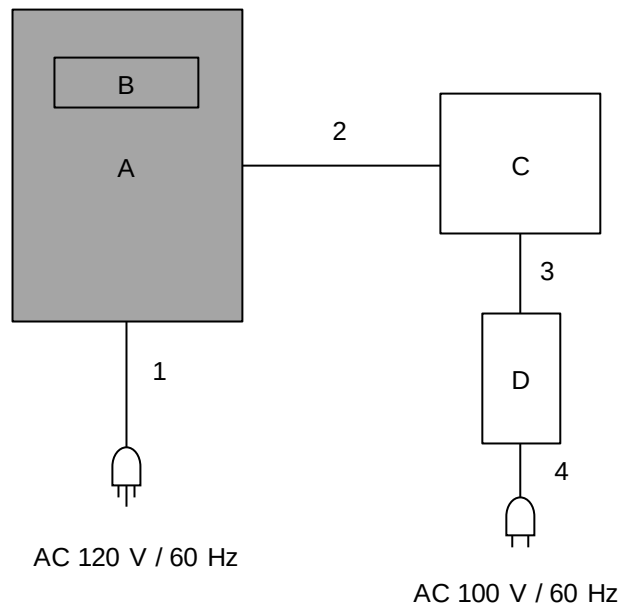
Test mode	Remarks
1) Transmitting mode (Tx)	The EUT Transmits and Receives at the same time and there is no receiving mode.
The EUT was operated in a manner similar to typical use during the tests.	
*Power of the EUT was set by the software as follows; Software: ToolS2195.exe Version: 1.12.00 (Date: 2026.08 25, Storage location: Driven by connected PC)	
*This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.	
Justification: The system was configured in typical fashion (as a user would normally use it) for testing.	

Test Item	Operating mode
Conducted Emission	Tx Mod on, with Tag *1)
Electric Field Strength of Fundamental Emission	Tx Mod on, with Tag *1)
Spectrum Mask	Tx Mod on, with Tag *1)
20 dB Bandwidth and 99 % Occupied Bandwidth	Tx Mod on, with Tag, without Tag
Electric Field Strength of Spurious Emission	Tx Mod on, with Tag *1)
Frequency Tolerance	Tx Mod on, with Tag *1)

*1) This EUT has two modes which Tag is attached or not. The worst case was confirmed with and without Tag attached, as a result, the test with Tag attached was the worst case. Therefore the test with Tag attached was performed only.

Frequency Tolerance		
Temperature	-20 deg. C to +50 deg. C: Step 10 deg. C	
Voltage	Normal Voltage	AC 120 V
	Maximum Voltage	AC 138 V (AC 120 V +15 %)
	Minimum Voltage	AC 102 V (AC 120 V -15 %)
*This EUT provides stable voltage constantly to RF Part regardless of input voltage		

4.2 Configuration and peripherals



* Cabling and setup were taken into consideration and test data was taken under worse case conditions.
* As a result of comparing AC 120 V and AC 240 V at pre-check, conducted emission test was performed with AC 120 V of the worst voltage as representative.

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remark
A	Digital Photo Printer	CHC-S2195	P1-378	SINFONIA TECHNOLOGY CO., LTD.	EUT
B	Ribbon Tag	AZ-H32+SLIX2	001	Arizon RFID Technology (Yangzhou) Co., Ltd.	EUT
C	Laptop PC	PR734MAF14BA D7X	YF012366H	TOSHIBA	-
D	AC Adapter	PA3917U-1ACA	201140424000221	TOSHIBA	-

List of Cables Used

No.	Name	Length (m)	Shield		Remark
			Cable	Connector	
1	AC Cable	1.5	Unshielded	Unshielded	-
2	USB Cable	1.5	Shielded	Shielded	-
3	DC Cable	1.6	Unshielded	Unshielded	-
4	AC Cable	0.9	Unshielded	Unshielded	-

SECTION 5: Conducted Emission

Test Procedure and conditions

EUT was placed on the platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.

The rear of the platform was located 40 cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of the platform. All other surfaces of the platform were at least 80 cm from any other grounded conducting surface. EUT was located 80 cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

For the tests on EUT with other peripherals (as a whole system)

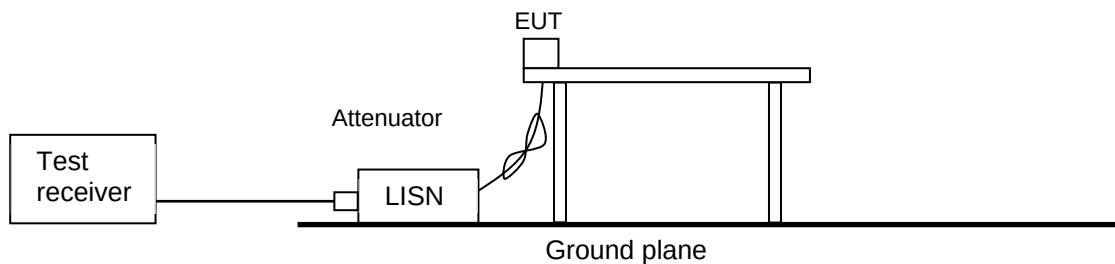
I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged at a 40 cm height to the ground plane. All unused 50 ohm connectors of the LISN (AMN) were resistivity terminated in 50 ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Figure 1: Test Setup



The test results and limit are rounded off to one decimal place, so some differences might be observed.

Detector	: QP and CISPR AV
Measurement range	: 0.15 MHz to 30 MHz
Test data	: APPENDIX
Test result	: Pass

SECTION 6: Radiated Emission (Fundamental, Spurious Emission and Spectrum Mask)

Test Procedure

EUT was placed on the platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

[Limit conversion]

The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, the measurement at frequency 9 kHz resulted in a level of 45.5 dBuV/m, which is equivalent to $45.5 - 51.5 = -6.0$ dBuA/m, which has the same margin, 3 dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

[Frequency: From 9 kHz to 30 MHz]

The loop antenna is oriented vertically, and its center point is positioned 1 m above ground level. The field strength radiated from the EUT is measured using a loop antenna connected to a measurement receiver as below procedures.

- 1) With the loop antenna set at vertical-axis angles of 0 deg., 45 deg., 90 deg., 135 deg., and the horizontal position, the EUT is rotated through 360 deg. to detect the maximum noise level. (The horizontal position has no rotation angle; therefore, the result obtained in Procedure 1 is used as the final data.)
- 2) The EUT is rotated through 360 deg. at two antenna angles: the angle that produced the maximum noise level in Procedure 1, and the angle that is reversed by 180 deg. from that angle. The noise levels from these two patterns are compared.
- 3) The EUT is rotated through 360 deg. at three antenna angles: the angle that produced the maximum noise level in Procedure 2, and the angles shifted by +15 deg. and -15 deg. from that angle. The noise levels from these three patterns are compared.
- 4) The EUT and antenna are set to the worst angle identified in Procedure 3, and point data is recorded. This data constitutes the final test result.

Refer to Figure 3 for the definition of the loop antenna angles.

The measurement bandwidth and detector type of the receiver are configured as shown in the table below.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open field test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

These tests were performed in semi anechoic chamber. Therefore the measured level of emissions may be higher than if measurements were made without a ground plane. However test results were confirmed to pass against standard limit.

[Frequency: From 30 MHz to 1 GHz]

The measuring antenna height varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization.

[Test instruments and test settings]

Frequency	Below 30 MHz	30 MHz to 200 MHz	200 MHz to 1 GHz
Antenna Type	Loop	Biconical	Logperiodic

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

Frequency	From 9 kHz to 90 kHz and From 110 kHz to 150 kHz	From 90 kHz to 110 kHz	From 150 kHz to 490 kHz	From 490 kHz to 30 MHz	From 30 MHz to 1 GHz
Instrument used	Test Receiver				
Detector	PK / AV	QP	PK / AV	QP	QP
IF Bandwidth	200 Hz	200 Hz	9 kHz	9 kHz	120 kHz
Test Distance	3 m *1)	3 m *1)	3 m *1)	3 m *2)	3 m

*1) Distance Factor: $40 \times \log (3 \text{ m} / 300 \text{ m}) = -80 \text{ dB}$

*2) Distance Factor: $40 \times \log (3 \text{ m} / 30 \text{ m}) = -40 \text{ dB}$

Figure 2: Test Setup

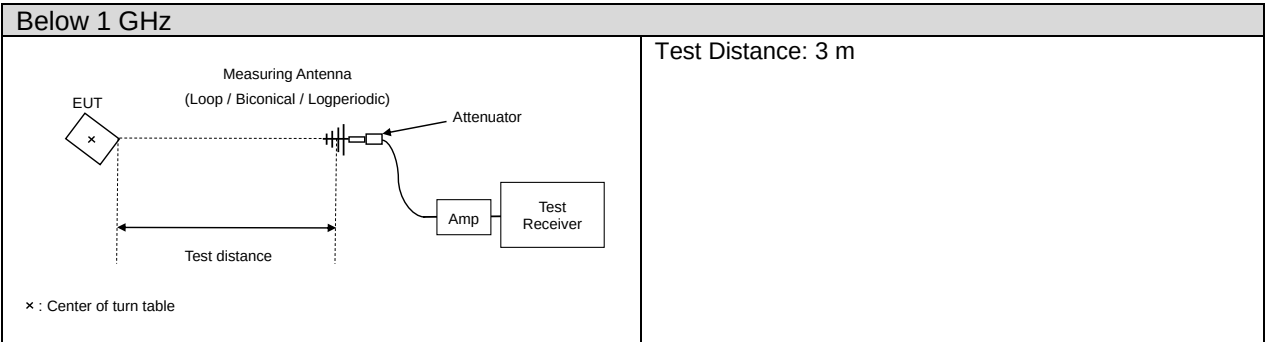
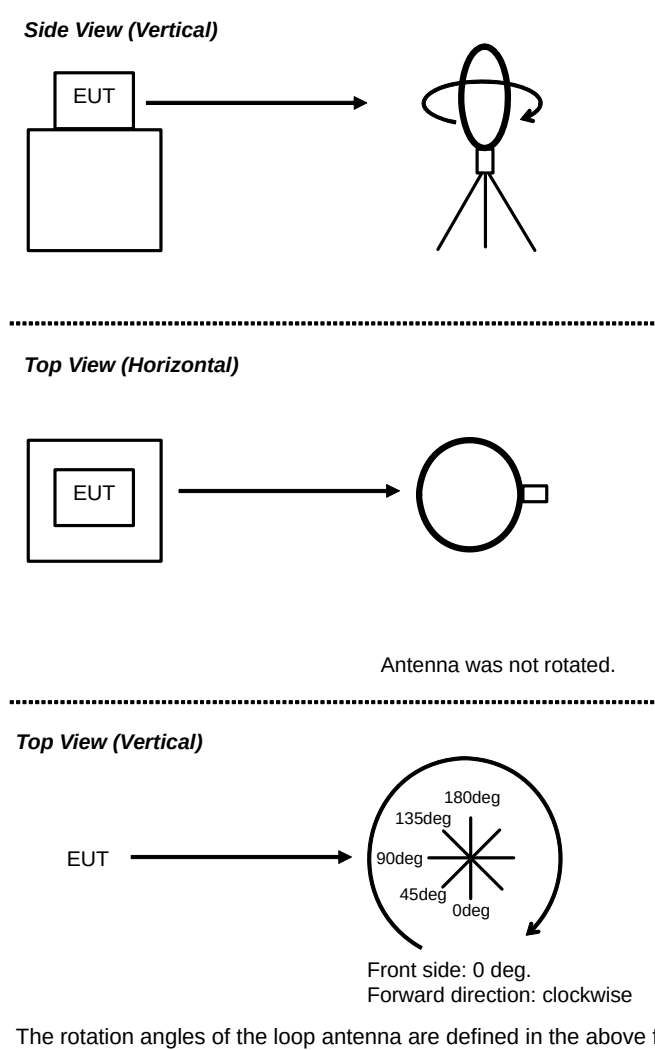


Figure 3: Direction of the Loop Antenna



The test was made on EUT at the normal use position.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Measurement range	: 9 kHz to 1 GHz
Test data	: APPENDIX
Test result	: Pass

SECTION 7: Other tests

Test	Span	RBW	VBW	Sweep	Detector	Trace	Instrument used
20 dB Bandwidth	2 times to 5 times of OBW	1 to 5 % of OBW *3)	Three times of RBW	Auto	Peak	Max Hold	Spectrum Analyzer
99 % Occupied Bandwidth	1.5 times to 5 times of OBW	1 to 5 % of OBW *3)	Three times of RBW	Auto	Peak *1)	Max Hold *1)	Spectrum Analyzer
Frequency Tolerance	-	-	-	-	-	-	Spectrum Analyzer *2)
*1) The measurement was performed with Peak detector, Max Hold since the duty cycle was not 100 %. *2) The measurement was performed with Marker Frequency Counter Function. Peak hold was applied as Worst-case measurement. *3) Since the transmitter signal is CW-like it is impractical to use a RBW setting of 1 - 5% of the emission bandwidth since the emission bandwidth will be proportional to the RBW. (Without tag only)							

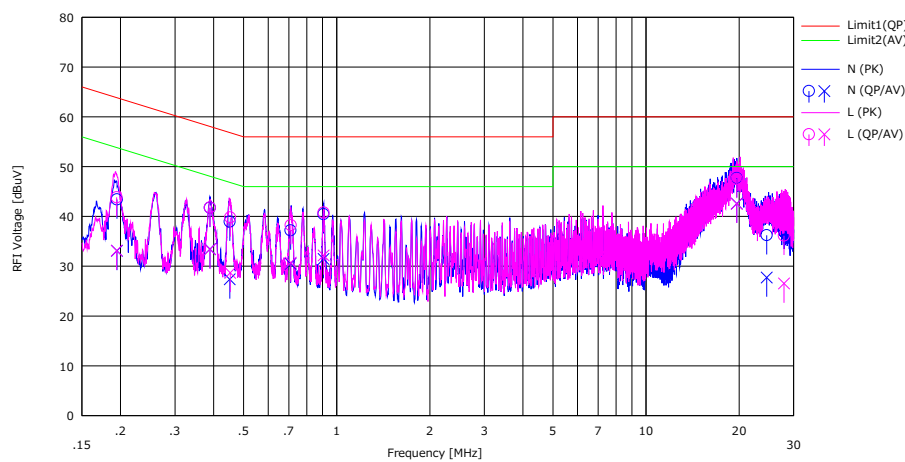
Test data : APPENDIX
Test result : Pass

APPENDIX 1: Test data

Conducted Emission

Mode	Mode 1			
Date	Test site	Temperature	Humidity	Engineer
August 24, 2026	SAC1	21 deg. C	66 % RH	Junya Okuno

Limit : FCC_Part 15 Subpart C(15.207) / RSS-Gen



No.	Freq. [MHz]	Reading		LISN [dB]	LOSS [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]			<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.19476	30.20	19.90	0.06	13.14	43.40	33.10	63.83	53.83	20.43	20.73	N	
2	0.38921	28.50	20.20	0.06	13.19	41.75	33.45	58.08	48.08	16.33	14.63	N	
3	0.45084	25.70	14.10	0.06	13.20	38.96	27.36	56.86	46.86	17.90	19.50	N	
4	0.70940	23.90	17.20	0.06	13.24	37.20	30.50	56.00	46.00	18.80	15.50	N	
5	0.90630	27.10	18.10	0.07	13.27	40.44	31.44	56.00	46.00	15.56	14.56	N	
6	19.65378	32.90	27.80	0.35	14.45	47.70	42.60	60.00	50.00	12.30	7.40	N	
7	24.56298	21.10	12.60	0.50	14.63	36.23	27.73	60.00	50.00	23.77	22.27	N	
8	0.19435	30.60	19.90	0.09	13.14	43.83	33.13	63.85	53.85	20.02	20.72	L	
9	0.38944	28.50	20.10	0.09	13.19	41.78	33.38	58.08	48.08	16.30	14.70	L	
10	0.45262	26.50	15.40	0.09	13.20	39.79	28.69	56.83	46.83	17.04	18.14	L	
11	0.71092	24.90	17.40	0.09	13.24	38.23	30.73	56.00	46.00	17.77	15.27	L	
12	0.90714	27.40	18.80	0.10	13.27	40.77	32.17	56.00	46.00	15.23	13.83	L	
13	19.65378	32.70	27.70	0.40	14.45	47.55	42.55	60.00	50.00	12.45	7.45	L	
14	27.91942	20.80	11.20	0.58	14.75	36.13	26.53	60.00	50.00	23.87	23.47	L	

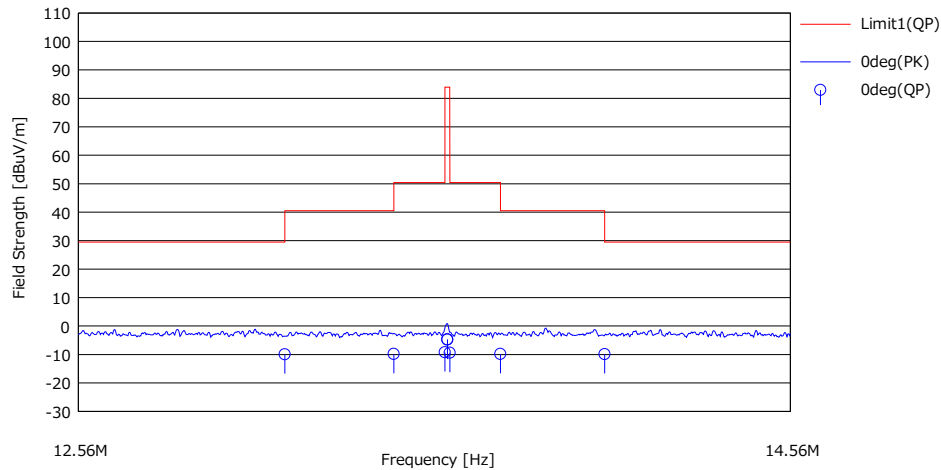
CHART: WITH FACTOR Peak hold data. CALCULATION : RESULT = READING + LISN + LOSS (CABLE + ATT)
Except for the above table: adequate margin data below the limits.

Fundamental Emission and Spectrum Mask

Mode	Mode 1
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Date	Test site	Temperature	Humidity	Engineer
August 24, 2026	SAC4	22 deg. C	66 % RH	Junya Okuno

Limit : FCC15.225(a), 9-90kHz:PK, 110-490kHz:PK, other:QP



No.	Freq.	Reading	Ant.Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
1	13.11000	38.60	19.94	-36.36	32.15	-9.97	29.50	39.47	0deg	192	
2	13.41000	38.70	19.95	-36.35	32.15	-9.85	40.50	50.35	0deg	192	
3	13.55300	39.30	19.96	-36.35	32.15	-9.24	50.40	59.64	0deg	192	
4	13.56000	43.80	19.96	-36.35	32.15	-4.74	83.90	88.64	0deg	192	with Tag†
5	13.56000	43.70	19.96	-36.35	32.15	-4.84	83.90	88.74	0deg	192	without Tag
6	13.56700	39.10	19.96	-36.35	32.15	-9.44	50.40	59.84	0deg	192	
7	13.71000	38.70	19.96	-36.34	32.15	-9.83	40.50	50.33	0deg	192	
8	14.01000	38.60	19.97	-36.33	32.15	-9.91	29.50	39.41	0deg	192	

RESULT = READING + ANT FACTOR + LOSS (CABLE + Attenuator + Distance Factor*) - GAIN(AMP))

*) Distance Factor: 40 x log (3 m / 30 m) = -40 dB

Result of the fundamental Emission at 3 m without Distance factor

Ant Deg [deg]	Frequency	Detector	Reading	Ant Factor	Loss	Gain	Duty Factor	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
0	13.56000	QP	43.80	19.96	3.65	32.15	-	35.26	-	-	Fundamental

Result = Reading + Ant Factor + Loss (Cable+Attenuator) - Gain(Amplifier)

Spurious Emission

Mode	Mode 1
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Date	Test site	Temperature	Humidity	Engineer
August 24, 2026	SAC4	22 deg. C	66 % RH	Junya Okuno

PK or QP

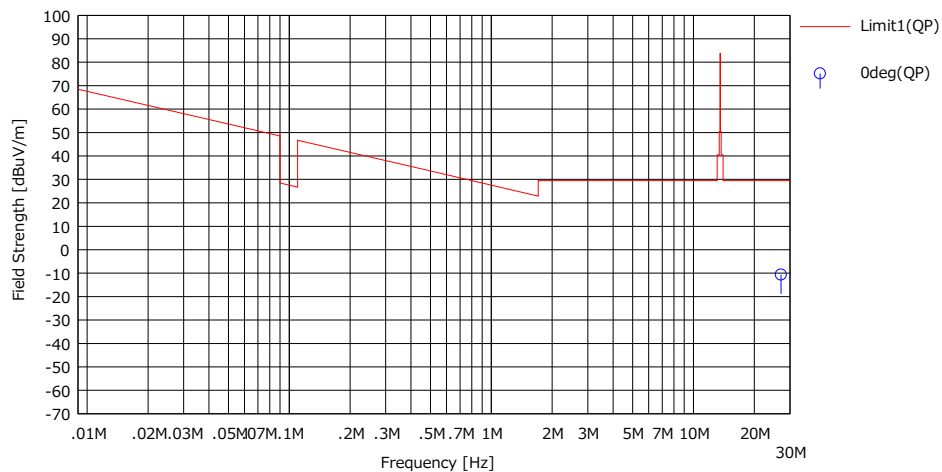
Ant Deg [deg] or Polarity [Hori/Vert]	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
0deg	27.120	QP	36.90	20.56	-36.00	32.13	-	-10.67	29.5	40.17	
Hori.	45.110	QP	36.50	13.08	7.23	32.11	-	24.70	40.0	15.30	
Hori.	108.197	QP	42.00	11.33	7.92	32.07	-	29.18	43.5	14.34	
Hori.	183.224	QP	33.70	16.35	8.60	32.03	-	26.62	43.5	16.90	
Hori.	209.948	QP	37.80	11.22	8.83	32.02	-	25.83	43.5	17.69	
Hori.	311.989	QP	41.40	13.78	9.66	32.04	-	32.80	46.0	13.22	
Vert.	45.362	QP	47.00	12.99	7.23	32.11	-	35.11	40.0	4.89	
Vert.	64.388	QP	43.50	6.80	7.47	32.10	-	25.67	40.0	14.33	
Vert.	81.762	QP	50.30	7.32	7.68	32.09	-	33.21	40.0	6.79	
Vert.	183.198	QP	40.70	16.35	8.60	32.03	-	33.62	43.5	9.90	
Vert.	209.948	QP	37.60	11.22	8.83	32.02	-	25.63	43.5	17.89	

Result = Reading + Ant Factor + Loss (Cable + Attenuator + D.Factor) - Gain(Amplifier)

Radiated Spurious Emission (Plot data, Worst case for Spurious Emission)

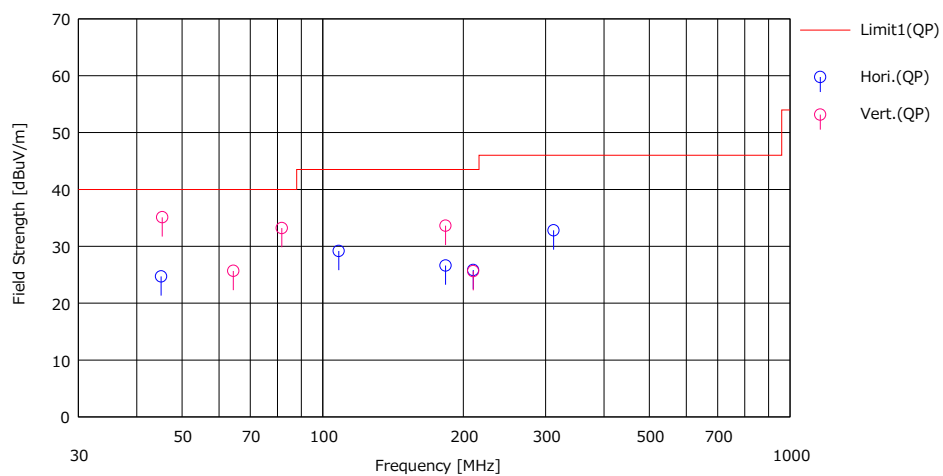
Mode	Mode 1			
Date	Test site	Temperature	Humidity	Engineer
August 24, 2026	SAC4	22 deg. C	66 % RH	Junya Okuno

(below 30 MHz)



* Data above 490 kHz were measured using a QP detector.

(above 30 MHz)

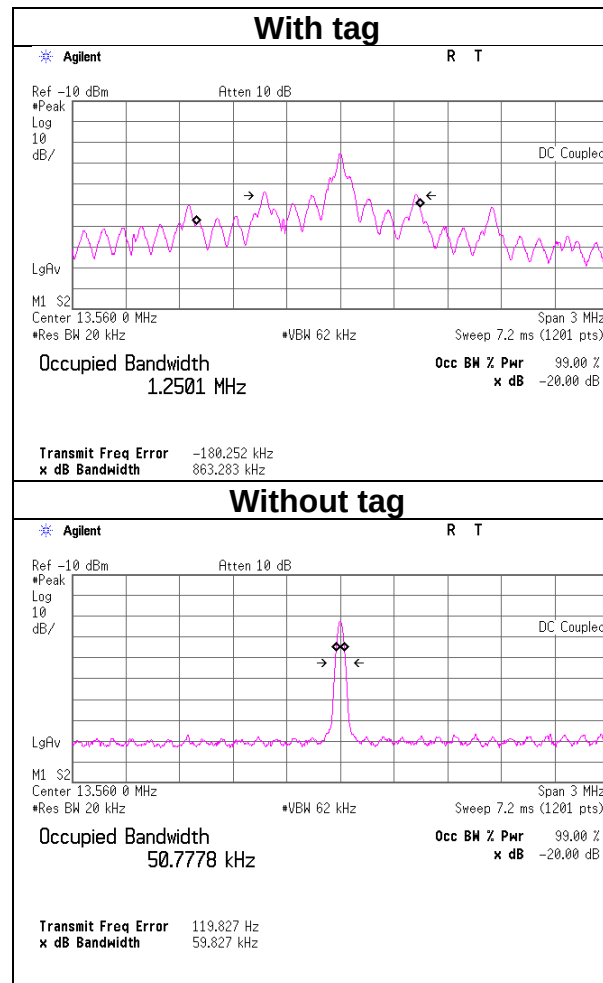


*These plots data contains sufficient number to show the trend of characteristic features for EUT.

20 dB Bandwidth and 99% Occupied Bandwidth

Mode	Mode 1			
Date	Test site	Temperature	Humidity	Engineer
August 27, 2026	MR6	22 deg. C	66 % RH	Shousei Hamaguchi

Frequency [MHz]	Mode	20dB Bandwidth [kHz]	99% Occupied Bandwidth [kHz]
13.56	With Tag	863.283	1250.1000
	Without Tag	59.827	50.7778



Since the transmitter signal is CW-like it is impractical to use a RBW setting of 1 - 5% of the emission bandwidth since the emission bandwidth will be proportional to the RBW. (Without tag only)

Frequency Tolerance

Mode	Mode 1
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Date	Test site	Temperature	Humidity	Engineer
August 27, 2026	MR6	22 deg. C	66 % RH	Shousei Hamaguchi

Test condition Temp. [deg. C]	Voltage [V]	Tested timing	Measured frequency [MHz]	Frequency error [MHz]	Result		Limit [+/- %]
					[%]	[ppm]	
50	120	Power on	13.559546	-0.000454	-0.00335	-33.5	0.01
		+ 2 min.	13.559546	-0.000454	-0.00335	-33.5	0.01
		+ 5 min.	13.559546	-0.000454	-0.00335	-33.5	0.01
		+ 10 min.	13.559546	-0.000454	-0.00335	-33.5	0.01
40	120	Power on	13.559562	-0.000438	-0.00323	-32.3	0.01
		+ 2 min.	13.559561	-0.000439	-0.00324	-32.4	0.01
		+ 5 min.	13.559559	-0.000441	-0.00325	-32.5	0.01
		+ 10 min.	13.559559	-0.000441	-0.00325	-32.5	0.01
30	120	Power on	13.559564	-0.000436	-0.00322	-32.2	0.01
		+ 2 min.	13.559564	-0.000436	-0.00322	-32.2	0.01
		+ 5 min.	13.559564	-0.000436	-0.00322	-32.2	0.01
		+ 10 min.	13.559563	-0.000437	-0.00322	-32.2	0.01
20	120	Power on	13.559568	-0.000432	-0.00319	-31.9	0.01
		+ 2 min.	13.559568	-0.000432	-0.00319	-31.9	0.01
		+ 5 min.	13.559568	-0.000432	-0.00319	-31.9	0.01
		+ 10 min.	13.559568	-0.000432	-0.00319	-31.9	0.01
20	102 (120V -15%)	Power on	13.559568	-0.000432	-0.00319	-31.9	0.01
		+ 2 min.	13.559568	-0.000432	-0.00318	-31.8	0.01
		+ 5 min.	13.559568	-0.000432	-0.00318	-31.8	0.01
		+ 10 min.	13.559569	-0.000431	-0.00318	-31.8	0.01
20	138 (120V +15%)	Power on	13.559568	-0.000432	-0.00318	-31.8	0.01
		+ 2 min.	13.559568	-0.000432	-0.00318	-31.8	0.01
		+ 5 min.	13.559569	-0.000431	-0.00318	-31.8	0.01
		+ 10 min.	13.559568	-0.000432	-0.00318	-31.8	0.01
10	120	Power on	13.559565	-0.000435	-0.00321	-32.1	0.01
		+ 2 min.	13.559568	-0.000432	-0.00318	-31.8	0.01
		+ 5 min.	13.559570	-0.000430	-0.00317	-31.7	0.01
		+ 10 min.	13.559570	-0.000430	-0.00317	-31.7	0.01
0	120	Power on	13.559521	-0.000479	-0.00353	-35.3	0.01
		+ 2 min.	13.559521	-0.000479	-0.00353	-35.3	0.01
		+ 5 min.	13.559521	-0.000479	-0.00353	-35.3	0.01
		+ 10 min.	13.559522	-0.000478	-0.00353	-35.3	0.01
-10	120	Power on	13.559461	-0.000539	-0.00397	-39.7	0.01
		+ 2 min.	13.559462	-0.000538	-0.00397	-39.7	0.01
		+ 5 min.	13.559463	-0.000537	-0.00396	-39.6	0.01
		+ 10 min.	13.559463	-0.000537	-0.00396	-39.6	0.01
-20	120	Power on	13.559463	-0.000537	-0.00396	-39.6	0.01
		+ 2 min.	13.559465	-0.000535	-0.00395	-39.5	0.01
		+ 5 min.	13.559463	-0.000537	-0.00396	-39.6	0.01
		+ 10 min.	13.559460	-0.000540	-0.00398	-39.8	0.01

Calculation formula:

Frequency error = Measured frequency - Tested frequency

Result [%] = Frequency error / Tested frequency * 100

Tested frequency:

13.56 MHz

*The test was begun from 50 deg. C and the temperature was lowered each 10 deg. C.

APPENDIX 2: Test instruments

Test Equipment

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
CE	141357	LISN(AMN)	Schwarzbeck Mess-Elektronik OHG	NSLK8127	8127-729	05/18/2026	12
CE	141530	Digital Tester	Fluke Corporation	FLUKE 26-3	78030621	02/05/2026	12
CE	141537	LISN(AMN)	Schwarzbeck Mess-Elektronik OHG	NSLK8127	8127-731	05/19/2026	12
CE	141568	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	2901	01/14/2026	12
CE	141936	Terminator	TME	CT-01BP	-	12/01/2025	12
CE	141950	EMI Test Receiver	Rohde & Schwarz	ESU26	100412	01/05/2026	12
CE	142226	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
CE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
CE	182498	Attenuator	JFW	50FP-013-H2	-	12/02/2025	12
RE	141217	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W/SFM141/421-010/sucoform141-PE/RFM-E121(SW)	-/04178	06/29/2026	12
RE	141267	Logperiodic Antenna(200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-192	09/12/2025	12
RE	141397	Coaxial Cable	UL-ISE EMC	-	-	11/12/2025	12
RE	141425	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	VHA 91031302	08/13/2026	12
RE	141429	Temperature and Humidity Chamber	Espec	PL-2KP	14015723	08/23/2026	12
RE	141558	Digital Tester(TRUE RMS MULTIMETER)	Fluke Corporation	115	17930030	05/07/2026	12
RE	141583	Pre Amplifier	SONOMA INSTRUMENT	310	260833	04/16/2026	12
RE	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	10/06/2025	12
RE	141951	EMI Test Receiver	Rohde & Schwarz	ESR26	101408	06/11/2026	12
RE	142011	AC4_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	07/10/2025	24
RE	142230	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	148899	Attenuator	Pasternack Enterprises	PE7047-3	1002332	11/04/2025	12
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	202512	Loop Antenna	UL-ISE	-	-	-	-
RE	207745	Coaxial Cable	UL-ISE	-	-	03/17/2026	12
RE	220646	Attenuator	Huber+Suhner	6806 N-50-1	-	03/06/2026	12
RE	244710	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202104	01/14/2026	12
RE	244712	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202106	01/13/2026	12
RE	252514	Active Loop Antenna	Schwarzbeck Mess-Elektronik OHG	FMZB 1519-60 D	1519-60 D-067	10/14/2025	12
RE	272098	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4255	250902199	11/27/2025	12
FT	141429	Temperature and Humidity Chamber	Espec	PL-2KP	14015723	08/23/2026	12
FT	141558	Digital Tester(TRUE RMS MULTIMETER)	Fluke Corporation	115	17930030	05/07/2026	12
FT	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	10/06/2025	12
FT	202512	Loop Antenna	UL-ISE	-	-	-	-
FT	244712	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202106	01/13/2026	12

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

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

Test item:

CE: Conducted Emission

RE: Radiated Emission

FT: Frequency Tolerance