

RADIO TEST REPORT

Test Report No. 16247212H-A-R1

Customer	OMRON HEALTHCARE Co.,Ltd
Description of EUT	Blood Pressure Monitor
Model Number of EUT	BP7155GHSP
FCC ID	Q6ZHEM7184T
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	May 28, 2026
Remarks	-

Representative Test EngineerTakumi Nishida
Engineer**Approved By**Takumi Shimada
Engineer

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".

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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)	16247212H-A	May 25, 2026	-
1	16247212H-A-R1	May 28, 2026	4.2 Configuration and Peripherals Updated Model Number and Serial Number: - Model Number: HHP-AM01 → HEM-ADPTW5 - Serial Number: - (Hyphen) → No.5

Reference: Abbreviations (Including words undescribed in this report)

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

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SECTION 1: Customer Information

Company Name	OMRON HEALTHCARE Co.,Ltd
Address	53, Kunotsubo, Terado-cho, Muko, KYOTO, 617-0002 Japan
Telephone Number	+81-75-925-2045
Contact Person	Masao Maeda

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	Blood Pressure Monitor
Model Number	BP7155GHSP
Serial Number	Refer to SECTION 4.2
Condition	Engineering prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	April 28, 2026
Test Date	April 28 to May 13, 2026

2.2 Product Description

General Specification

Rating	DC 6.0 V (Battery) AC 100 V to 240 V, 50 Hz to 60 Hz (AC Adapter)
Operating temperature	10 deg. C to 40 deg. C

Radio Specification

This report contains data provided by the customer which can impact the validity of results. UL Japan, Inc. is only responsible for the validity of results after the integration of the data provided by the customer. The data provided by the customer is marked "a)" in the table below.

Bluetooth (Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	GFSK
Antenna Gain ^{a)}	-0.43 dBi

2.3 Variant model(s)

The EUT has a variant model, BP5155.

The only difference between the EUT and the variant model is the external appearance; there are no differences in electrical performance.

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 47 CFR Part 15 Radio Frequency Device Subpart C Intentional Radiators Section 15.207 Conducted limits Section 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

*The customer has declared that the EUT has complies with FCC Part 15 Subpart B as SDoC.

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) for ISED
ANSI C63.25.1-2018
KDB 558074 D01 v05r02
KDB 662911 D01 v02r01 for FCC MIMO device

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Conducted Emission	FCC: Section 15.207 ISED: RSS-Gen section 8.8	Complied	-
6 dB Bandwidth	FCC: Section 15.247(a)(2) ISED: RSS-247 section 6.3.1(a)	Complied	Conducted
Maximum Peak Output Power	FCC: Section 15.247(b)(3) ISED: RSS-247 section 6.3.2	Complied	Conducted
Power Density	FCC: Section 15.247(e) ISED: RSS-247 section 6.3.1(b)	Complied	Conducted
Spurious Emission Restricted Band Edges	FCC: Section 15.247(d) ISED: RSS-247 section 6.6 RSS-Gen section 8.9 RSS-Gen section 8.10	Complied	Conducted (below 30 MHz) / Radiated (above 30 MHz) *1)

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.
*1) Radiated test was selected over 30 MHz based on section 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 8.5 and 8.6.

FCC Part 15.31 (e)

This EUT provides the stable voltage constantly to RF part regardless of input voltage.
Therefore, this EUT complies with the requirement.

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% Occupied Bandwidth	ISED: -	-	Conducted

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

Antenna Terminal Conducted

Item	Unit	Calculated Uncertainty (+/-)
Antenna terminated conducted emission / Power density / Burst power	dB	3.50
Adjacent channel power (ACP)	dB	2.32
Bandwidth (OBW)	%	0.96
Time readout (time span upto 100 msec)	%	0.11
Time readout (time span upto 1000 msec)	%	0.11
Time readout (time span upto 60 sec)	%	0.02
Power measurement (Power meter < 8GHz)	dB	1.43
Power measurement (Call box < 6 GHz)	dB	1.89
Frequency readout (Frequency counter)	Ratio	6.7.E-07
Frequency readout (Spectrum analyzer frequency readout function)	Ratio	2.1.E-06
Temperature (constant temperature bath)	deg.C	0.69
Humidity (constant temperature bath)	%RH	2.98
Modulation characteristics	%	6.93
Frequency for mobile	Ratio	8.0.E-08
Contention-based protocol	dB	2.97

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 3.0 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

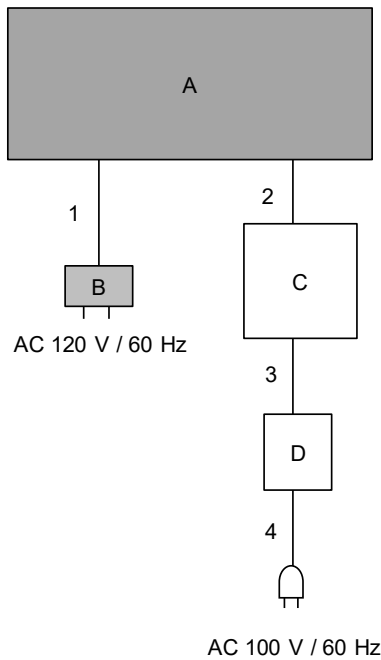
4.1 Operating Mode(s)

Mode	Remarks*
Bluetooth Low Energy (BT LE)	Uncoded 1M-PHY (1M), Maximum Packet Size, PRBS9
*Power of the EUT was set by the software as follows; Power Setting: 0 dBm Software: <Other tests except for Antenna Terminal Conducted test> TX2402 Version 1.0 TX2440 Version 1.0 TX2480 Version 1.0 (Date: 2024.12.06, Storage location: EUT memory) <Antenna Terminal Conducted test> OPM_Communication_Tool.exe Version: 1.0.0.0 (Date: 2014.04.07, 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.	

*The Details of Operating Mode(s)

Test Item	Operating Mode	Tested Frequency
Conducted Emission, Radiated Spurious Emission (Below 1 GHz)	Tx BT LE 1M *1)	2402 MHz
Radiated Spurious Emission (Above 1 GHz), Maximum Peak Output Power, Power Density, 6 dB Bandwidth, 99% Occupied Bandwidth, Conducted Spurious Emission	Tx BT LE 1M	2402 MHz 2440 MHz 2480 MHz
*1) Conducted emissions and Spurious emissions for frequencies below 1 GHz were limited to the channel that had the highest power during the antenna terminal test, as preliminary testing indicated that changing the operating frequency had no significant impact on the emissions in those frequency bands.		

4.2 Configuration and Peripherals



* Cabling and setup(s) 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	Remarks
A	Blood Pressure Monitor	BP7155GHSP	202604000020V	OMRON	EUT, *1)
			202604000011V	HEALTHCARE Co.,Ltd	EUT, *2)
B	AC Adapter	HEM-ADPTW5	No.5	OMRON HEALTHCARE Co.,Ltd	EUT
C	Laptop PC	inspiron	29473017625	DELL	*1)
D	AC Adapter	DA130PE1-00	WRHKW	DELL	*1)

*1) Used for Antenna Terminal conducted test

*2) Used for Conducted Emission test and Radiated Emission test

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	1.5	Unshielded	Unshielded	-
2	USB Cable	1.9	Shielded	Shielded	*1)
3	DC Cable	0.8	Unshielded	Unshielded	*1)
4	AC Cable	0.9	Unshielded	Unshielded	*1)

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 tabletop was located 40 cm to the vertical conducting plane. The rear of EUT, including peripherals was aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm 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 50ohm 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.

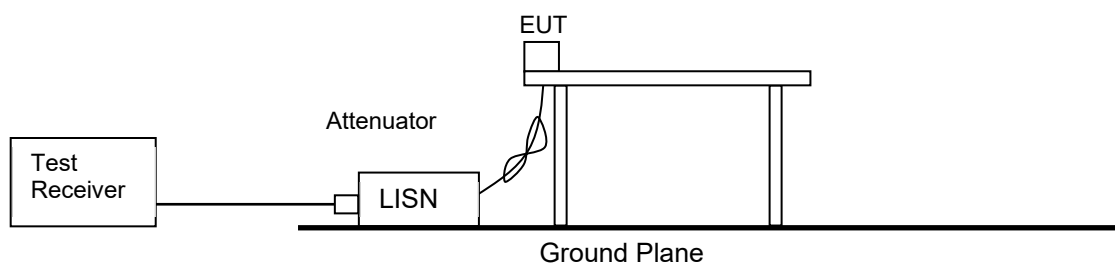
The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Test results are rounded off and limit are rounded down, 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

Figure 1: Test Setup



SECTION 6: Radiated Spurious Emission

Test Procedure

[For below 1 GHz]

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.

[For above 1 GHz]

EUT was placed on the platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane. Test antenna was aimed at the EUT for receiving the maximum signal and always kept within the illumination area of the 3 dB beamwidth of the antenna.

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

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

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.

Test Antennas are used as below;

Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

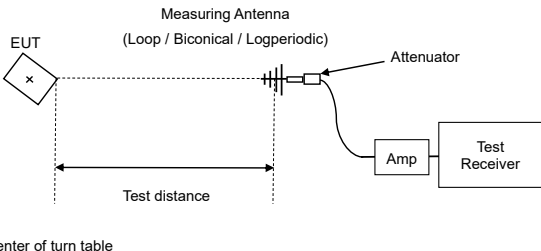
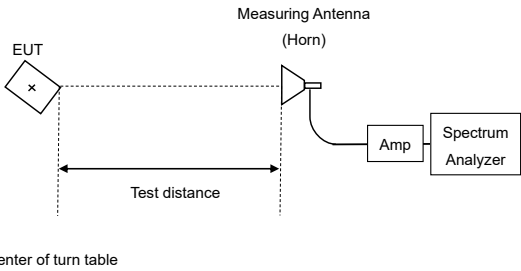
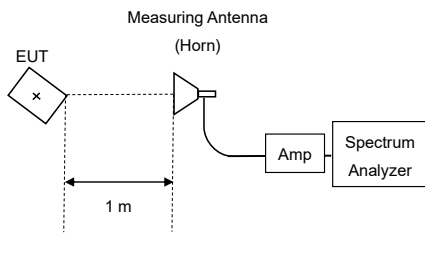
In any 100 kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20 dBc was applied to the frequency over the limit of FCC 15.209 / Table 4 of RSS-Gen 8.9(ISED) and outside the restricted band of FCC15.205 / Table 6 of RSS-Gen 8.10 (ISED).

It was measured with the settings below based on ANSI C63.10.

Frequency	Below 1 GHz	Above 1 GHz		20 dBc
Instrument Used	Test Receiver	Spectrum Analyzer		Spectrum Analyzer
Detector	QP	PK	AV	PK
IF Bandwidth	BW 120 kHz	RBW: 1 MHz VBW: 3 MHz	11.12.2.5.1 RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: 100 traces 11.12.2.5.2 The duty cycle was less than 98% for detected noise, a duty factor was added to the 11.12.2.5.1 results.	RBW: 100 kHz VBW: 300 kHz

Figure 2: Test Setup

Below 1 GHz	
 × : Center of turn table	Test Distance: 3 m
1 GHz to 18 GHz	
 × : Center of turn table	Test Distance: 3 m
18 GHz to 26.5 GHz	
 × : Center of turn table	Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$ *Test Distance: 1 m

The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Test results are rounded off and limit are rounded down, so some differences might be observed.

Measurement Range : 30 MHz to 26.5 GHz
Test Data : APPENDIX
Test Result : Pass

SECTION 7: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port.

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument Used
6 dB Bandwidth	3 MHz	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
99% Occupied Bandwidth *1)	Enough width to display emission skirts	1 to 5 % of OBW	Three times of RBW	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Peak Output Power	-	-	-	Auto	Peak/ Average *2)	-	Power Meter (Sensor: 50 MHz BW)
Peak Power Density	1.5 times the 6 dB Bandwidth	3 kHz	10 kHz	Auto	Peak	Max Hold	Spectrum Analyzer *3)
Conducted Spurious Emission *4) *5)	9 kHz to 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
	150 kHz to 30 MHz	10 kHz	30 kHz				

*1) Peak hold was applied as Worst-case measurement.

*2) Reference data

*3) Section 11.10.2 Method PKPSD (peak PSD) of "ANSI C63.10-2020".

*4) In the frequency range below 30MHz, RBW was narrowed to separate the noise contents.

Then, wide-band noise near the limit was checked separately, however the noise was low enough as shown in the chart.

(9 kHz - 150 kHz: RBW = 200 Hz, 150 kHz - 30 MHz: RBW = 10 kHz).

*5) 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.

Test results are rounded off and limit are rounded down, so some differences might be observed.
The equipment and cables were not used for factor 0 dB of the data sheets.

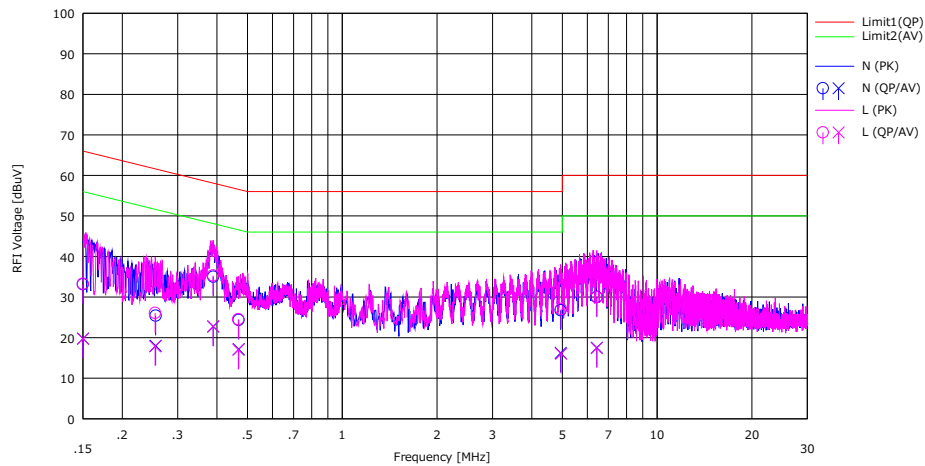
Test Data : APPENDIX
Test Result : Pass

APPENDIX 1: Test Data

Conducted Emission

Mode	Tx 2402 MHz			
Date	Test site	Temperature	Humidity	Engineer
May 13, 2026	SAC1	21 deg. C	59 % RH	Yuichiro Yamazaki

Limit : FCC_Part 15 Subpart C(15.207) / RSS-Gen 8.8



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	0.15000	19.90	6.50	0.13	13.12	33.15	19.75	66.00	56.00	32.85	36.25	N	
2	0.25538	12.10	4.70	0.13	13.15	25.38	17.98	61.58	51.58	36.20	33.60	N	
3	0.38930	21.70	9.40	0.13	13.18	35.01	22.71	58.08	48.08	23.07	25.37	N	
4	0.46891	11.00	3.80	0.14	13.19	24.33	17.13	56.53	46.53	32.20	29.40	N	
5	4.93984	12.70	2.20	0.34	13.69	26.73	16.23	56.00	46.00	29.27	29.77	N	
6	6.43813	15.80	3.30	0.43	13.79	30.02	17.52	60.00	50.00	29.98	32.48	N	
7	0.15000	20.00	6.50	0.11	13.12	33.23	19.73	66.00	56.00	32.77	36.27	L	
8	0.25442	12.80	4.60	0.11	13.15	26.06	17.86	61.61	51.61	35.55	33.75	L	
9	0.38865	22.00	9.50	0.11	13.18	35.29	22.79	58.09	48.09	22.80	25.30	L	
10	0.46766	11.20	3.70	0.12	13.19	24.51	17.01	56.56	46.56	32.05	29.55	L	
11	4.95684	13.00	2.00	0.34	13.69	27.03	16.03	56.00	46.00	28.97	29.97	L	
12	6.43375	15.70	3.20	0.43	13.79	29.92	17.42	60.00	50.00	30.08	32.58	L	

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

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
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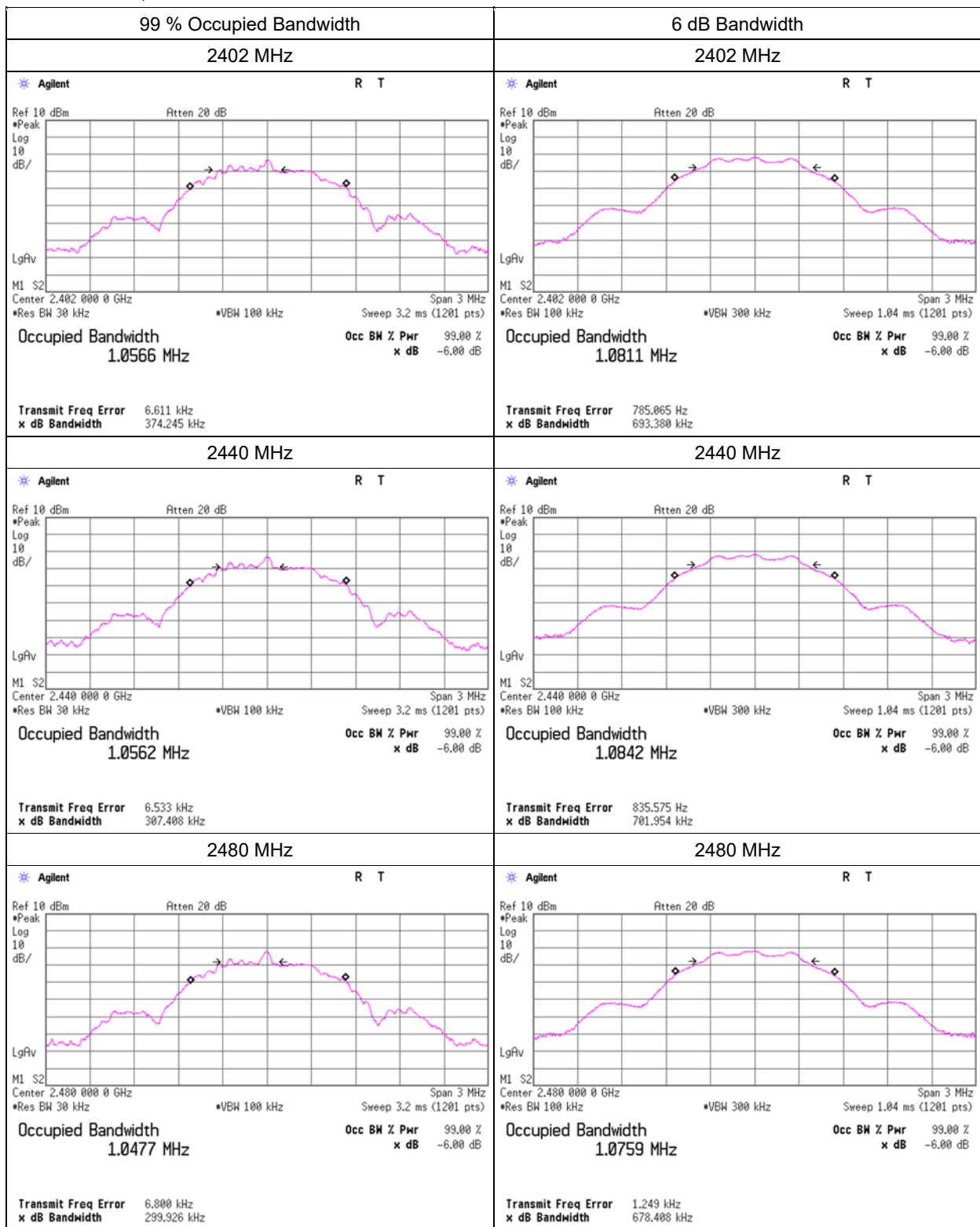
Date	Test Place	Temperature	Humidity	Engineer
April 28, 2026	SR7	24 deg.C	50 %RH	Takumi Nishida

BT LE 1M-PHY, SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2402	1056.6	0.693	> 0.5000
2440	1056.2	0.702	> 0.5000
2480	1047.7	0.678	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

BT LE 1M-PHY, SISO



Maximum Peak Output Power

Mode	Tx BT LE 1M-PHY, SISO
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Date	Test Place	Temperature	Humidity	Engineer
April 28, 2026	SR7	24 deg.C	50 %RH	Takumi Nishida

BT LE 1M-PHY, SISO

Antenna Port: Ant0

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted Power					Antenna Gain [dBi]	e.i.r.p. for RSS-247				
				Result		Limit		Margin		Result		Limit		Margin
				[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBm]	[mW]	[dBm]	[mW]	[dB]
2402	-11.70	1.99	10.10	0.40	1.10	30.00	1000.00	29.60	-0.43	-0.03	1.00	36.02	4000.00	36.05
2440	-11.74	2.00	10.10	0.36	1.09	30.00	1000.00	29.64	-0.43	-0.07	0.99	36.02	4000.00	36.09
2480	-11.75	2.01	10.10	0.36	1.09	30.00	1000.00	29.64	-0.43	-0.07	0.99	36.02	4000.00	36.09

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Average Output Power

Mode	Tx BT LE 1M-PHY, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
April 28, 2026	SR7	24 deg.C	50 %RH	Takumi Nishida

BT LE 1M-PHY, SISO

Antenna Port: Ant0

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Time average)		Duty Factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
2402	-13.75	1.99	10.10	-1.66	0.69	1.79	0.13	1.04
2440	-13.78	2.00	10.10	-1.68	0.68	1.79	0.11	1.03
2480	-13.79	2.01	10.10	-1.68	0.68	1.79	0.11	1.03

Sample Calculation:

Result (Time average)= Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

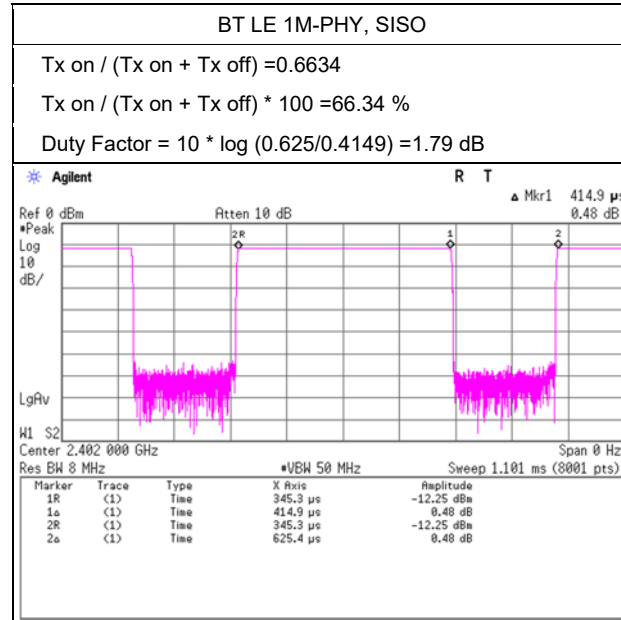
Result (Burst power average) = Time average + Duty Factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Burst rate confirmation

Mode	Tx BT LE 1M-PHY, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
April 28, 2026	SR7	24 deg.C	50 %RH	Takumi Nishida



Radiated Spurious Emission

Mode	Tx BT LE 2402 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
May 10, 2026	SAC2	20 deg. C	41 % RH	Shousei Hamaguchi	Below 1 GHz, Above 1 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	35.8	21.7	-	16.6	6.8	28.6	-	16.6	-	40.0	-	23.4	-	
Hori.	71.2	22.0	-	6.3	7.2	28.5	-	7.1	-	40.0	-	32.9	-	
Hori.	154.1	21.3	-	15.2	7.9	28.2	-	16.1	-	43.5	-	27.4	-	
Hori.	283.1	20.7	-	13.4	8.7	27.8	-	15.1	-	46.0	-	30.9	-	
Hori.	463.0	21.5	-	16.8	9.8	29.0	-	19.2	-	46.0	-	26.8	-	
Hori.	722.8	21.6	-	20.1	10.7	29.2	-	23.2	-	46.0	-	22.9	-	
Hori.	2390.0	50.1	38.0	27.6	3.0	33.0	1.8	47.6	37.4	73.9	53.9	26.3	16.5	*1)
Hori.	4804.0	43.3	35.6	31.6	5.2	32.5	-	47.6	39.8	73.9	53.9	26.3	14.1	Floor noise
Hori.	7206.0	43.6	35.6	35.9	6.4	32.4	-	53.4	45.5	73.9	53.9	20.5	8.4	Floor noise
Hori.	9608.0	44.9	34.6	38.7	7.3	33.1	-	57.9	47.6	73.9	53.9	16.0	6.3	Floor noise
Hori.	12010.0	44.8	35.9	38.3	8.2	36.8	-	54.5	45.5	73.9	53.9	19.5	8.4	Floor noise
Vert.	37.0	23.0	-	16.2	6.9	28.6	-	17.5	-	40.0	-	22.5	-	
Vert.	54.0	37.0	-	9.9	7.0	28.5	-	25.5	-	40.0	-	14.6	-	
Vert.	80.5	24.6	-	7.1	7.3	28.5	-	10.5	-	40.0	-	29.5	-	
Vert.	283.1	20.7	-	13.4	8.7	27.8	-	15.1	-	46.0	-	30.9	-	
Vert.	463.0	21.5	-	16.8	9.8	29.0	-	19.2	-	46.0	-	26.8	-	
Vert.	722.8	21.6	-	20.1	10.7	29.2	-	23.2	-	46.0	-	22.9	-	
Vert.	2390.0	50.8	37.5	27.6	3.0	33.0	1.8	48.4	36.9	73.9	53.9	25.5	17.0	*1)
Vert.	4804.0	43.3	35.6	31.6	5.2	32.5	-	47.6	39.8	73.9	53.9	26.3	14.1	Floor noise
Vert.	7206.0	43.6	35.6	35.9	6.4	32.4	-	53.4	45.5	73.9	53.9	20.5	8.4	Floor noise
Vert.	9608.0	44.9	34.6	38.7	7.3	33.1	-	57.9	47.6	73.9	53.9	16.0	6.3	Floor noise
Vert.	12010.0	44.8	35.9	38.3	8.2	36.8	-	54.5	45.5	73.9	53.9	19.5	8.4	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.
*1) Not Out of Band emission(Leakage Power)

20dBc Data Sheet

Polarity	Frequency	Reading (PK)	Ant Factor	Loss	Gain	Result	Limit	Margin	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori.	2402.0	95.5	27.5	3.0	33.0	93.0	-	-	Carrier
Hori.	2400.0	52.6	27.5	3.0	33.0	50.2	73.0	22.9	
Vert.	2402.0	96.3	27.5	3.0	33.0	93.9	-	-	Carrier
Vert.	2400.0	52.8	27.5	3.0	33.0	50.3	73.9	23.6	

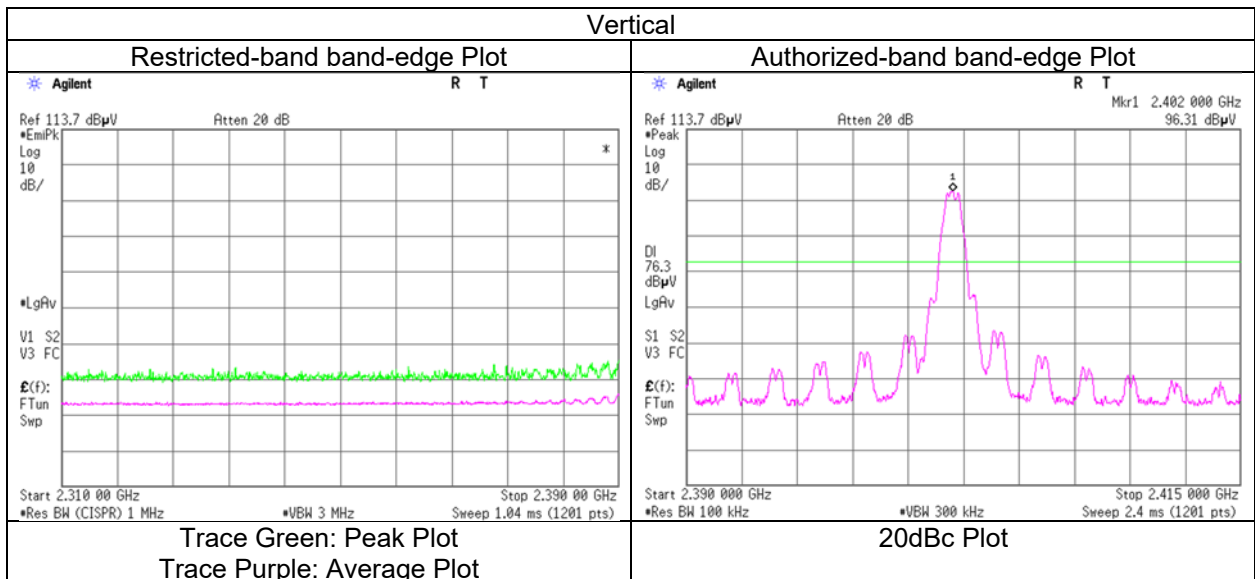
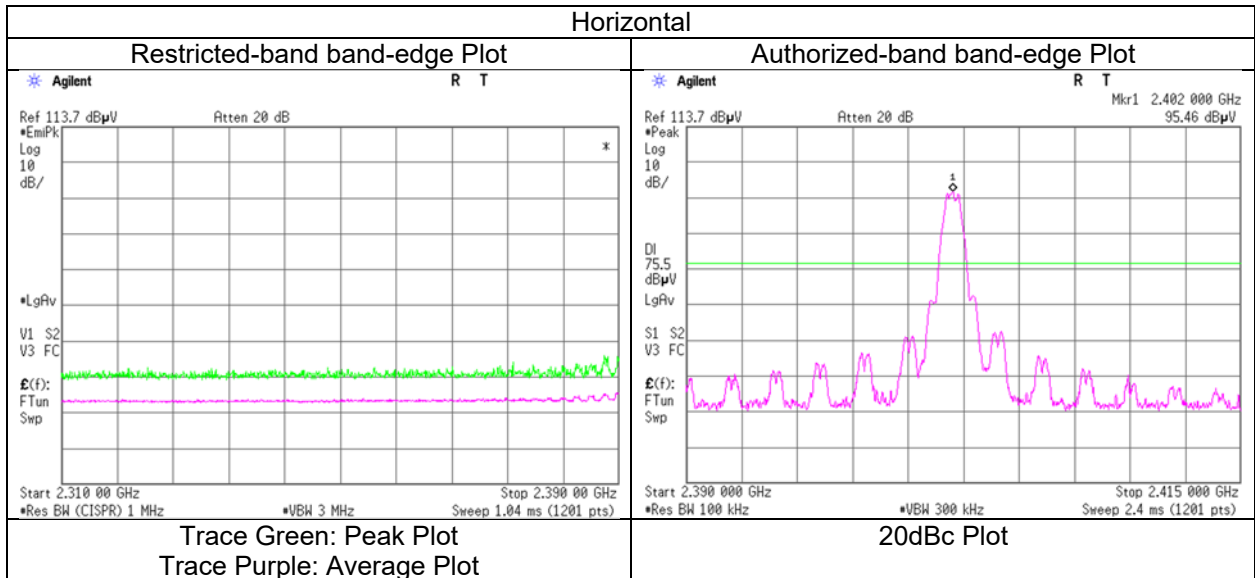
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 2402 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
May 10, 2026	SAC2	20 deg. C	41 % RH	Shousei Hamaguchi	Above 1 GHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Mode	Tx BT LE 2440 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
May 10, 2026	SAC2	20 deg. C	41 % RH	Shousei Hamaguchi	Above 1 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	4880.0	44.3	36.7	31.6	5.3	32.5	1.8	48.7	42.8	73.9	53.9	25.3	11.1	*2)
Hori.	7320.0	43.0	35.5	36.0	6.4	32.4	-	53.0	45.5	73.9	53.9	20.9	8.4	Floor noise
Hori.	9760.0	44.3	34.3	39.1	7.4	33.1	-	57.7	47.8	73.9	53.9	16.2	6.2	Floor noise
Hori.	12200.0	43.9	36.0	38.3	8.2	36.9	-	53.6	45.6	73.9	53.9	20.3	8.3	Floor noise
Vert.	4880.0	44.9	36.8	31.6	5.3	32.5	1.8	49.3	42.9	73.9	53.9	24.6	11.0	*2)
Vert.	7320.0	43.0	35.5	36.0	6.4	32.4	-	53.0	45.5	73.9	53.9	20.9	8.4	Floor noise
Vert.	9760.0	44.3	34.3	39.1	7.4	33.1	-	57.7	47.8	73.9	53.9	16.2	6.2	Floor noise
Vert.	12200.0	43.9	36.0	38.3	8.2	36.9	-	53.6	45.6	73.9	53.9	20.3	8.3	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

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

*QP detector was used up to 1GHz.

*2) Noise synchronized with duty of carrier frequency

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 2480 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
May 10, 2026	SAC2	20 deg. C	41 % RH	Shousei Hamaguchi	Above 1 GHz

Polarity	Frequency	Reading	Reading	Ant.	Loss	Gain	Duty	Result	Result	Limit	Limit	Margin	Margin	Remark
[Hori/Vert]	[MHz]	(QP / PK)	(AV)	Factor	[dB]	[dB]	Factor	(QP / PK)	(AV)	(QP / PK)	(AV)	(QP / PK)	(AV)	
		[dBuV]	[dBuV]	[dB/m]			[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	2483.5	52.1	40.3	27.4	3.1	33.0	1.8	49.7	39.6	73.9	53.9	24.2	14.3	*1)
Hori.	2483.9	55.1	41.3	27.4	3.1	33.0	1.8	52.6	40.6	73.9	53.9	21.3	13.3	*2)
Hori.	4960.0	43.7	33.3	31.8	5.3	32.5	-	48.2	37.9	73.9	53.9	25.7	16.1	Floor noise
Hori.	7440.0	42.8	33.4	36.2	6.4	32.5	-	53.0	43.5	73.9	53.9	20.9	10.4	Floor noise
Hori.	9920.0	43.9	33.3	39.1	7.5	33.1	-	57.4	46.8	73.9	53.9	16.5	7.1	Floor noise
Hori.	12400.0	44.0	36.1	38.0	8.3	36.9	-	53.3	45.5	73.9	53.9	20.6	8.5	Floor noise
Vert.	2483.5	52.6	40.3	27.4	3.1	33.0	1.8	50.2	39.7	73.9	53.9	23.7	14.2	*1)
Vert.	2483.9	55.1	42.0	27.4	3.1	33.0	1.8	52.6	41.3	73.9	53.9	21.3	12.6	*2)
Vert.	4960.0	43.7	33.3	31.8	5.3	32.5	-	48.2	37.9	73.9	53.9	25.7	16.1	Floor noise
Vert.	7440.0	42.8	33.4	36.2	6.4	32.5	-	53.0	43.5	73.9	53.9	20.9	10.4	Floor noise
Vert.	9920.0	43.9	33.3	39.1	7.5	33.1	-	57.4	46.8	73.9	53.9	16.5	7.1	Floor noise
Vert.	12400.0	44.0	36.1	38.0	8.3	36.9	-	53.3	45.5	73.9	53.9	20.6	8.5	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

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

*QP detector was used up to 1GHz

*1) Not Out of Band emission(Leakage Power)

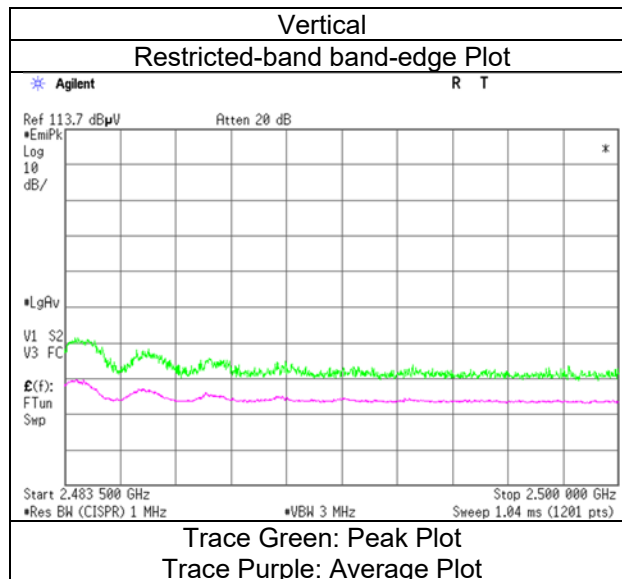
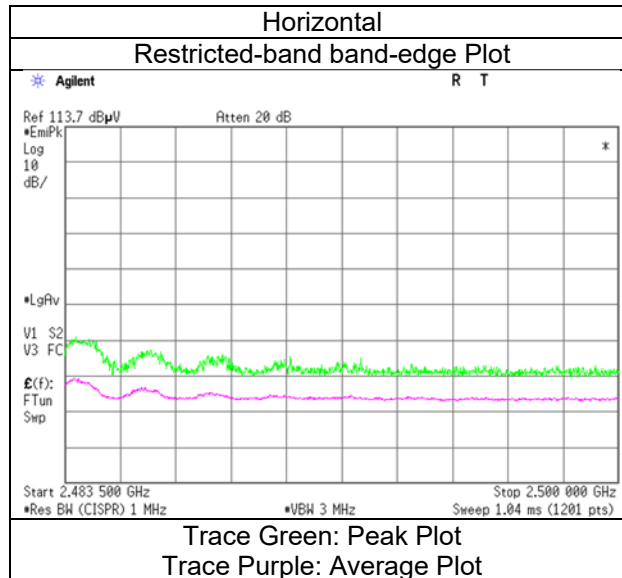
*2) Noise synchronized with duty of carrier frequency

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 2480 MHz				
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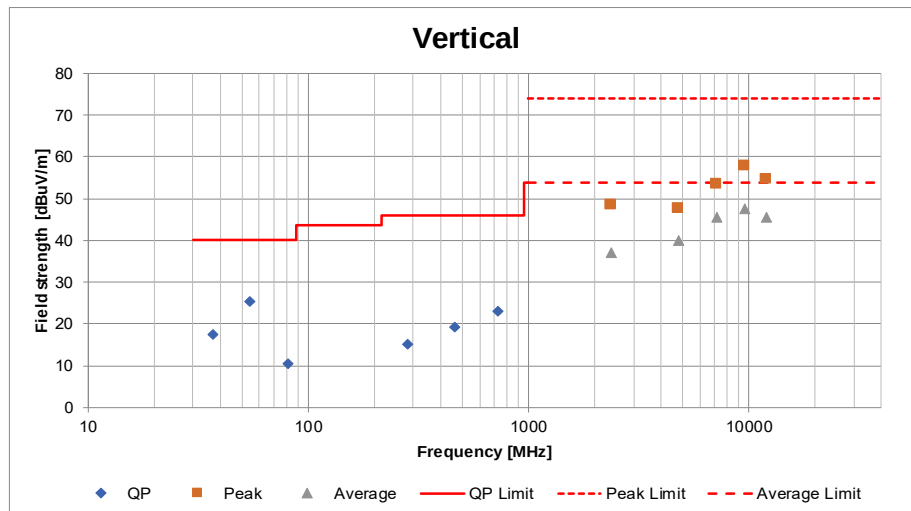
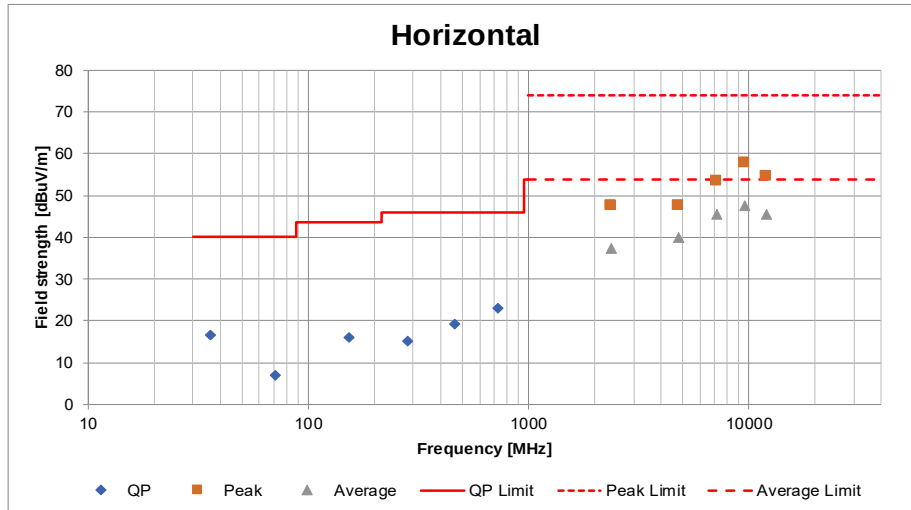
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
May 10, 2026	SAC2	20 deg. C	41 % RH	Shousei Hamaguchi	Above 1 GHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission (Plot data, Worst case mode for Maximum Conducted Output Power)

Mode	Tx BT LE 2402 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
May 10, 2026	SAC2	20 deg. C	41 % RH	Shousei Hamaguchi	Below 1 GHz, Above 1 GHz

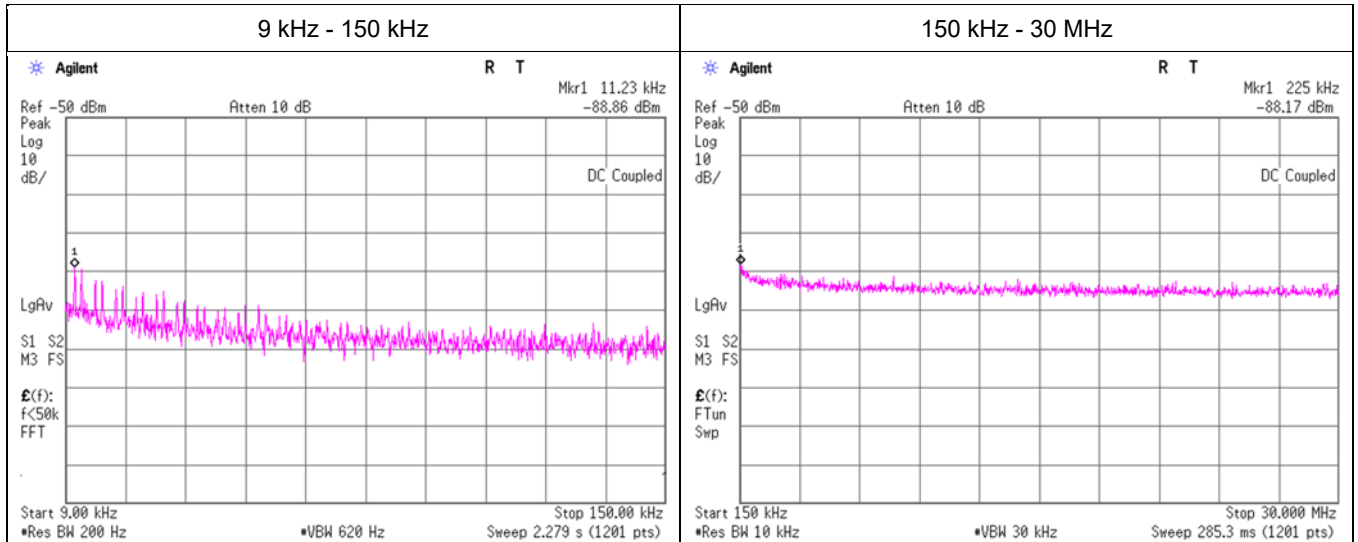


*These plots data contains sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Mode	Tx BT LE 1M-PHY, SISO			
Date	Test Place	Temperature	Humidity	Engineer
April 28, 2026	SR7	24 deg.C	50 %RH	Takumi Nishida

BT LE 1M-PHY, SISO, 2402 MHz



Freq. [kHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain * [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
11.230	-88.86	0.70	9.68	2.00	1.00	-76.5	300	6.0	-15.2	46.5	61.7	-
225.000	-88.17	0.70	9.68	2.00	1.00	-75.8	300	6.0	-14.5	20.5	35.0	-

$E \text{ [dBuV/m]} = \text{EIRP [dBm]} - 20 \log (\text{Distance [m]}) + \text{Ground bounce [dB]} + 104.8 \text{ [dBuV/m]}$

$\text{EIRP [dBm]} = \text{Reading [dBm]} + \text{Cable loss [dB]} + \text{Attenuator Loss [dB]} + \text{Antenna gain [dBi]} + 10 * \log (N)$

N: Number of output

*2.0 dBi was applied to the test result based on ANSI C63.10 since antenna gain was less than 2.0 dBi.

Power Density

Mode	Tx BT LE 1M-PHY, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
April 28, 2026	SR7	24 deg.C	50 %RH	Takumi Nishida

BT LE 1M-PHY, SISO

Antenna Port: Ant0

Tested Freq. [MHz]	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2402	-26.98	1.99	10.10	-14.90	8.00	22.90
2440	-26.36	2.00	10.10	-14.26	8.00	22.26
2480	-26.36	2.01	10.10	-14.26	8.00	22.26

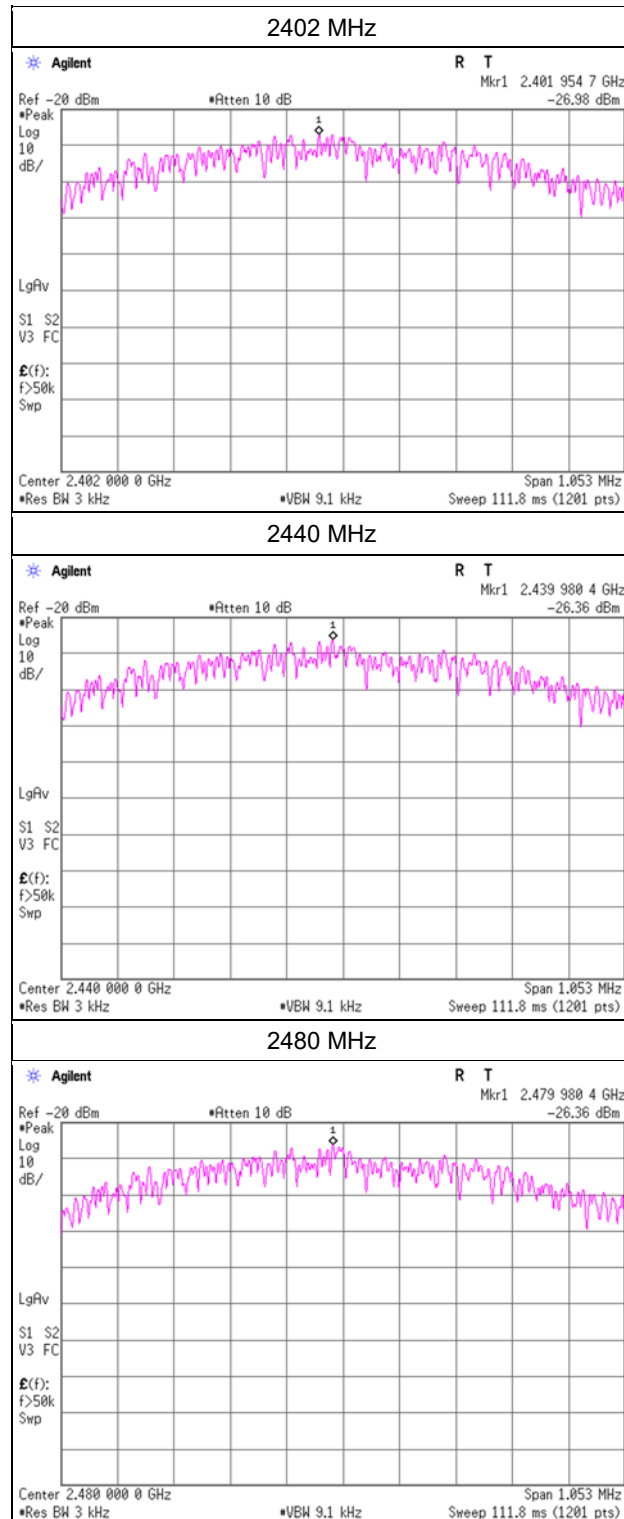
Sample Calculation:

PSD: Power Spectral Density

PSD Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Power Density

BT LE 1M-PHY, SISO, Ant0



APPENDIX 2: Test Instruments

Test Equipment

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	141173	Attenuator(10dB) (above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	-	12/02/2025	12
AT	141244	Attenuator(10dB)	Weinschel - API Technologies Corp	WA8-10-34	A198	02/02/2026	12
AT	141360	DIGITAL HiTESTER	HIOKI E. E. CORPORATION	3805	070900532	01/05/2026	12
AT	141572	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	3401	01/14/2026	12
AT	141809	Power Meter	Anritsu Corporation	ML2495A	825002	05/15/2025	12
AT	141830	Power sensor	Anritsu Corporation	MA2411B	738285	05/15/2025	12
AT	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	10/06/2025	12
AT	254385	Measuring Tool, Tape Measure	KOMELON	KMC-36	2	-	-
AT	259288	Coaxial Cable	UL-ISE	-	-	03/06/2026	12
AT	263326	Microwave Cable	GigaLane Co., Ltd	GL140sE	53043-01-02	04/16/2026	12
CE	141215	Coaxial Cable	Fujikura/Suhner/TSJ	5D-2W/3D-2W/ RG400u/ RFM-E421(SW)	-/01068 (Switcher)	06/27/2025	12
CE	141357	LISN(AMN)	Schwarzbeck Mess-Elektronik OHG	NSLK8127	8127-729	12/04/2025	12
CE	141530	Digital Tester	Fluke Corporation	FLUKE 26-3	78030621	02/05/2026	12
CE	141568	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	2901	01/14/2026	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	141265	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-190	07/22/2025	12
RE	141296	High Pass Filter 3.5-18.0GHz	UL-ISE	HPF SELECTOR	002	09/03/2025	12
RE	141317	Coaxial Cable	UL-ISE	-	-	09/29/2025	12
RE	141427	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103B+BBA9106	08031	07/22/2025	12
RE	141503	Horn Antenna 18-26.5GHz	EMCO	3160-09	1265	06/18/2025	12
RE	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	254	10/20/2025	12
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/01/2025	12
RE	141594	Pre Amplifier	Keysight Technologies Inc	8447D	2944A10150	02/09/2026	12
RE	141900	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46185823	03/13/2026	12
RE	141949	Test Receiver	Rohde & Schwarz	ESCI	100767	06/30/2025	12
RE	142004	AC2_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	07/08/2025	24
RE	142006	AC2_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/21/2025	24
RE	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	237927	Broadband Amplifier	ERAVANT	SBB-0115033218-2F2F-E3	27554-01	07/02/2025	12
RE	238713	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	688	09/17/2025	12
RE	244707	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202102	01/13/2026	12
RE	252663	Microwave Cable	Huber+Suhner	SF126E/11PC35/11 PC35/1000MM,5000 MM	616276/126E / 616275/126E	09/03/2025	12
RE	253739	Pre Amplifier	Keysight Technologies Inc	8449B	3008A01919	10/17/2025	12
RE	266727	Attenuator	Huber+Suhner	6806_N-50-1	40701613	07/09/2025	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:

AT: Antenna Terminal Conducted test

CE: Conducted Emission

RE: Radiated Emission