

RADIO TEST REPORT

Test Report No. 16113886S-J-R1

Customer	Canon Inc.
Description of EUT	Communication Module
Model Number of EUT	ES206
FCC ID	AZD257
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	July 1, 2026
Remarks	Bluetooth (BR / EDR) parts

Representative Test EngineerMakoto Hosaka
Engineer**Approved By**Toyokazu Imamura
Engineer

CERTIFICATE 1266.03

- ☐ 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)	16113886S-J	April 17, 2026	-
1	16113886S-J-R1	July 1, 2026	P6: Added antenna gain including cable loss. P7: Revised to indicate that the module includes a power regulator. P11 to 12: - Added a note stating that the matching filter has been removed. - Revised *3) from "The EUT antenna cable is available in two lengths. The test was carried out with 0.2 m length, which was the worst length in the pre-check of Radiated Spurious Emission." to "The EUT antenna cable is available in two lengths. For Radiated Spurious Emission, emissions were pre-checked over the full frequency range, including carriers and harmonics, in the representative mode. The test was then carried out with 0.2 m length, which represented the worst-case configuration." P28: Recalculated using antenna gain including cable loss.

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	Canon Inc.
Address	30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501 Japan
Telephone Number	+81-3-5482-4941
Contact Person	Sho Tanaka

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	Communication Module
Model Number	ES206
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	December 2, 2025
Test Date	December 5, 2025 to January 16, 2026

2.2 Product Description

General Specification

Rating	DC 3.3 V
Operating temperature	-40 deg. C to 85 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 (BR/EDR/BT LE)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	GFSK
Antenna Gain ^{a)}	4.32 dBi (Including 20mm cable loss: 4.02 dBi)

WLAN (IEEE802.11b/11g/11n-20/11ax-20)

Equipment Type	Transceiver	
Frequency of Operation	2412 MHz to 2462 MHz	
Type of Modulation	DSSS, OFDM	
	OFDMA (IEEE802.11ax only)	26/52/106/242-tone RU
Antenna Gain	4.32 dBi (Including 20mm cable loss: 4.02 dBi)	

WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20)

Equipment Type	Transceiver		
Frequency of Operation	5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5700 MHz 5745 MHz to 5825 MHz		
Type of Modulation	OFDM		
	OFDMA (IEEE802.11ax only)	26/52/106/242-tone RU	
Antenna Gain ^{a)} *1)	4.29 dBi (Including 20mm cable loss: 3.80 dBi)		WLAN UNII-1 and UNII-2A band
	5.04 dBi (Including 20mm cable loss: 4.54 dBi)		WLAN UNII-2C band
	5.45 dBi (Including 20mm cable loss: 4.96 dBi)		WLAN UNII-3 band

*1) The e.i.r.p. data in the report is calculated using antenna gain that includes minimum cable loss.

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

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

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Conducted Emission	FCC: Section 15.207 ISED: RSS-Gen section 8.8	Complied	-
Carrier Frequency Separation	FCC: Section 15.247 (a)(1) ISED: RSS-247 section 6.2.3.1 (a)	Complied	Conducted
20 dB Bandwidth	FCC: Section 15.247 (a)(1) ISED: RSS-247 section 6.2.1 (a)	Complied	Conducted
Number of Hopping Frequency	FCC: Section 15.247 (a)(1)(iii) ISED: RSS-247 section 6.2.3.1 (b)	Complied	Conducted
Dwell time	FCC: Section 15.247 (a)(1)(iii) ISED: RSS-247 section 6.2.3.1 (b)	Complied	Conducted
Maximum Peak Output Power	FCC: Section 15.247 (b)(1) ISED: RSS-247 section 6.2.3.2 (a)(b)(c)	Complied	Conducted
Spurious Emission & Band Edge Compliance	FCC: Section 15.247 (d) ISED: RSS-247 section 6.6 RSS-Gen section 8.9 RSS-Gen section 8.10	Complied	Conducted/ 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).

FCC Part 15.31 (e)

The RF Module has its own regulator.

The RF Module is constantly provided with voltage through the regulator regardless of input voltage.

Therefore, this EUT complies with the requirement.

FCC Part 15.203/212 Antenna requirement

The EUT has a unique coupling/antenna connector (MHF-4L (IPEX)). Therefore the equipment complies with the requirement of 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 $k = 2$.

Item	Frequency range	Uncertainty (+/-)
Conducted Emission (AC Mains) LISN	150 kHz to 30 MHz	3.2 dB
Radiated Emission (Measurement distance: 3 m)	9 kHz to 30 MHz	3.4 dB
	30 MHz to 200 MHz	4.8 dB
	200 MHz to 1 GHz	6.0 dB
	1 GHz to 6 GHz	4.7 dB
	6 GHz to 18 GHz	5.3 dB
Radiated Emission (Measurement distance: 1 m)	18 GHz to 40 GHz	5.4 dB
	1 GHz to 18 GHz	5.6 dB
	18 GHz to 40 GHz	5.7 dB

Antenna terminal test	Uncertainty (+/-)
Power Measurement above 1 GHz (Average Detector)	1.2 dB
Power Measurement above 1 GHz (Peak Detector)	2.1 dB
Spurious Emission (Conducted) below 1 GHz	1.7 dB
Conducted Emissions Power Density Measurement 1 GHz to 3 GHz	1.1 dB
Conducted Emissions Power Density Measurement 3 GHz to 18 GHz	2.7 dB
Spurious Emission (Conducted) 18 GHz to 26.5 GHz	2.9 dB
Spurious Emission (Conducted) 26.5 GHz to 40 GHz	2.6 dB
Bandwidth Measurement	0.012 %
Duty Cycle and Time Measurement	0.27 %
Temperature	2.2 deg.C.
Humidity	3.2 %
Voltage	0.92 %

3.6 Test Location

UL Japan, Inc. Shonan EMC Lab.

1-22-3, Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 Japan

Telephone: +81-463-50-6400

A2LA Certificate Number: 1266.03

(FCC test firm registration number: 626366, ISED lab company number: 2973D / CAB identifier: JP0001)

Test room	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
No.1 Semi-anechoic chamber (SAC1)	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.2 Semi-anechoic chamber (SAC2)	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.3 Semi-anechoic chamber (SAC3)	12.7 x 7.7 x 5.35	12.7 x 7.7	5 m
No.4 Semi-anechoic chamber (SAC4)	8.1 x 5.1 x 3.55	8.1 x 5.1	-
Wireless anechoic chamber 1 (WAC1)	9.5 x 6.0 x 5.4	9.5 x 6.0	3 m
Wireless anechoic chamber 2 (WAC2)	9.5 x 6.0 x 5.4	9.5 x 6.0	3 m
No.1 Shielded room (SR1)	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.2 Shielded room (SR2)	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.3 Shielded room (SR3)	6.3 x 4.7 x 2.7	6.3 x 4.7	-
No.4 Shielded room (SR4)	4.4 x 4.7 x 2.7	4.4 x 4.7	-
No.5 Shielded room (SR5)	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.6 Shielded room (SR6)	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.8 Shielded room (SR8)	3.45 x 5.5 x 2.4	3.45 x 5.5	-
No.1 Measurement room (MR1)	2.55 x 4.1 x 2.5	-	-
No.2 Measurement room (MR2)	4.5 x 3.5 x 2.5	-	-
Wireless shielded room 1 (WSR1)	3.0 x 4.5 x 2.7	3.0 x 4.5	-
Wireless shielded room 2 (WSR2)	3.0 x 4.5 x 2.7	3.0 x 4.5	-

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)

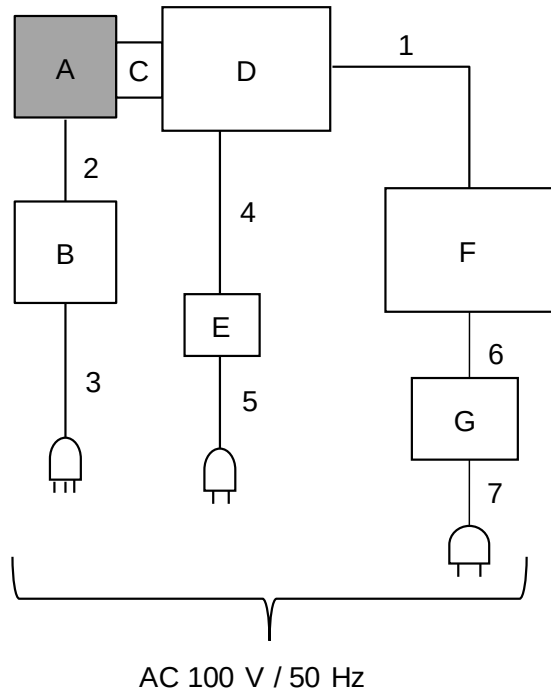
Mode	Remarks*
Bluetooth (BT)	BR / EDR, Payload: PRBS9
*EUT has the power settings by the software as follows; Power Setting: Fixed Software: 001.002.032.0162 (Date: 2025.12.02, Storage location: Driven by connected PC) *This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.	

Details of Operating Mode(s)

Test Item	Mode	Hopping	Tested Frequency
Conducted Emission, Radiated Spurious Emission (Below 1 GHz)	Tx DH5 *1)	Off	2441 MHz
	Tx 3DH5 with Tx 11a, 5500 MHz *2)		2402 MHz
Radiated Spurious Emission (Above 1 GHz)	Tx DH5 Tx 3DH5	Off	2402 MHz 2441 MHz 2480 MHz
	Tx 3DH5 with Tx 11a, 5500 MHz *2)		2402 MHz
Carrier Frequency Separation	Tx DH5 Tx 3DH5	On	2402 MHz 2441 MHz 2480 MHz
20 dB Bandwidth, Conducted Spurious Emission	Tx DH5 Tx 3DH5	Off	2402 MHz 2441 MHz 2480 MHz
Number of Hopping Frequency	Tx DH5 Tx 3DH5	On	-
Dwell time	Tx DH1, DH3, DH5 Tx 3DH1, 3DH3, 3DH5	On	-
Maximum Peak Output Power	Tx DH5 Tx 2DH5 Tx 3DH5	Off	2402 MHz 2441 MHz 2480 MHz
Band Edge Compliance (Conducted)	Tx DH5 Tx 3DH5	On ----- Off	2402 MHz 2480 MHz
99% Occupied Bandwidth	Tx DH5 Tx 3DH5	On ----- Off	2402 MHz 2441 MHz 2480 MHz
*As a result of preliminary test, the formal test was performed with the above modes, which had the maximum payload length (except Dwell time test) *2DH mode (2Mb/s EDR: pi/4DQPSK) was excluded for other tests than power measurement by using 3DH mode (3 Mb/s EDR: 8DPSK) as a representative. *It is considered that the non-tested packet type (e.g. inquiry) can be omitted as it is complied with above all the test items based on Bluetooth Core specification. *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. *2) The simultaneous transmission test was conducted in the worst mode of Radiated Spurious Emission.			

4.2 Configuration and Peripherals

<For Antenna Terminal Conducted Tests >



Description of EUT and Support Equipment

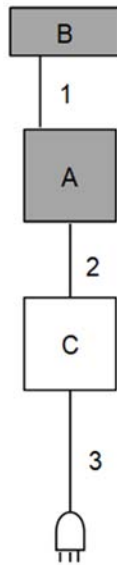
No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Communication Module	ES206	A10	Canon Inc.	EUT *1)
B	Power Supply (DC)	PW8-5ADPS	14086035	GW Instek	-
C	Interface board	WJIG2024_2	A30	Canon Inc.	-
D	Raspberry Pi board	600-90768-01 REV2.0	2-2	Infineon Technologies AG	-
E	AC Adapter	AD-A120P300	2231	Xiamen UME Electronics Co.,Ltd.	-
F	Laptop Computer	ThinkPad L580	PF1LTWJ8	LENOVO	-
G	AC Adapter	ADLX45YLC2A	8SSA10E75842L1 CZ94J0D3D	LENOVO	-

*1) With Jig board (The matching filter used when mounted on the host device has been removed on the Jig board.)

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	LAN	3.0	Unshielded	Unshielded	-
2	DC	0.5	Unshielded	Unshielded	-
3	AC	1.8	Unshielded	Unshielded	-
4	DC	1.5	Unshielded	Unshielded	-
5	AC	1.8	Unshielded	Unshielded	-
6	DC	1.8	Unshielded	Unshielded	-
7	AC	0.9	Unshielded	Unshielded	-

< For Radiated Emission tests and Conducted Emission tests >



AC 100 V / 50 Hz
AC 120 V / 60 Hz *1)

*1) Only Conducted emission tests

* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Communication Module	ES206	A16	Canon Inc.	EUT *2)
B	Antenna	-	-	Canon Inc.	EUT
C	Power Supply (DC)	PAN35-10A	CY002948	Kikusui Electronics Corp.	-

*2) With Jig board (The matching filter used when mounted on the host device has been removed on the Jig board.)

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	Antenna	0.2 0.02 *3)	Shielded	Shielded	-
2	DC	2.0	Unshielded	Unshielded	-
3	AC	1.8	Unshielded	Unshielded	-

*3) The EUT antenna cable is available in two lengths. For Radiated Spurious Emission, emissions were pre-checked over the full frequency range, including carriers and harmonics, in the representative mode. The test was then carried out with 0.2 m length, which represented the worst-case configuration.

SECTION 5: Conducted Emission

Test Procedure and Conditions

EUT was placed on the platform of nominal size, 1.0 m by 2.0 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.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a via Auxiliary equipment in a Shielded room.

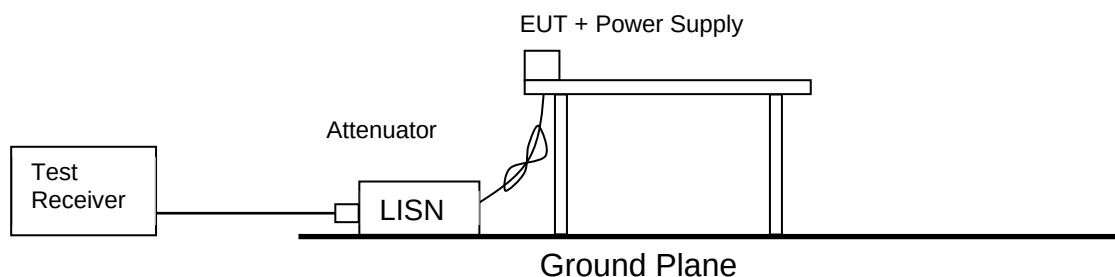
The EUT was connected to a LISN (AMN).

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

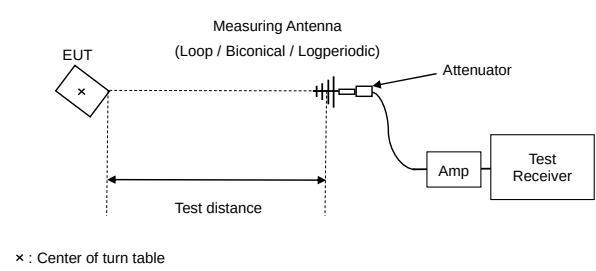
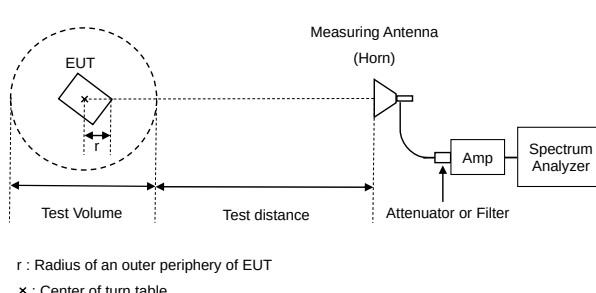
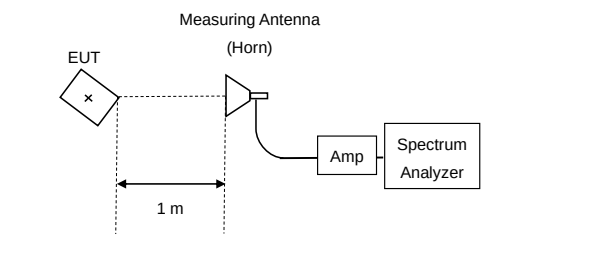
In any 100 kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired 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	RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: 100 traces Duty factor was added to the 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 10 GHz	
 r : Radius of an outer periphery of EUT × : Center of turn table	Distance Factor: $20 \times \log (3.94 \text{ m}^* / 3.0 \text{ m}) = 2.37 \text{ dB}$ *(Test Distance + SVSWR Volume / 2) - r = 0.06 m Test Distance: 3.0 m SVSWR Volume: 2.0 m (SVSWR Volume has been calibrated based on CISPR 16-1-4.) r: 0.06 m
10 GHz to 26.5 GHz	
 × : Center of turn table	Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$ *Test Distance: 1 m

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

EUT

	Below 1 GHz	1 GHz to 2.8 GHz	2.8 GHz to 10 GHz	10 GHz to 18 GHz	18 GHz to 26.5 GHz
Horizontal	X	Z	Z	X	Y
Vertical	X	Z	Z	X	Z

Antenna

	Below 1 GHz	1 GHz to 6.4 GHz	6.4 GHz to 10 GHz	10 GHz to 18 GHz	18 GHz to 26.5 GHz
Horizontal	X	X	X	X	X
Vertical	X	Z	Z	X	X

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
20 dB Bandwidth	3 MHz	30 kHz	100 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
99 % Occupied Bandwidth	Enough width to display emission skirts	1 to 5 % of OBW	Three times of RBW	Auto	Peak	Max Hold *1)	Spectrum Analyzer
Maximum Peak Output Power	-	-	-	Auto	Peak/Average *2)	-	Power Meter (Sensor: 160 MHz BW)
Carrier Frequency Separation	3 MHz	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
Number of Hopping Frequency	30 MHz	300 kHz	1 MHz	Auto	Peak	Max Hold	Spectrum Analyzer
Dwell Time	Zero Span	100 kHz, 1 MHz	300 kHz, 3 MHz	As necessary capture the entire dwell time per hopping channel	Peak	Clear Write	Spectrum Analyzer
Conducted Spurious Emission *3) *4)	9 kHz to 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
	150 kHz to 30 MHz	10 kHz	30 kHz				
	30 MHz to 25 GHz	100 kHz	300 kHz				
Conducted Spurious Emission Band Edge compliance	2390 MHz to 2403 MHz 2479 MHz to 2493.5 MHz	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer

*1) The measurement was performed with Max Hold since the duty cycle was not 100 %.

*2) Reference data

*3) 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 not detected as shown in the chart.

*4) 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.

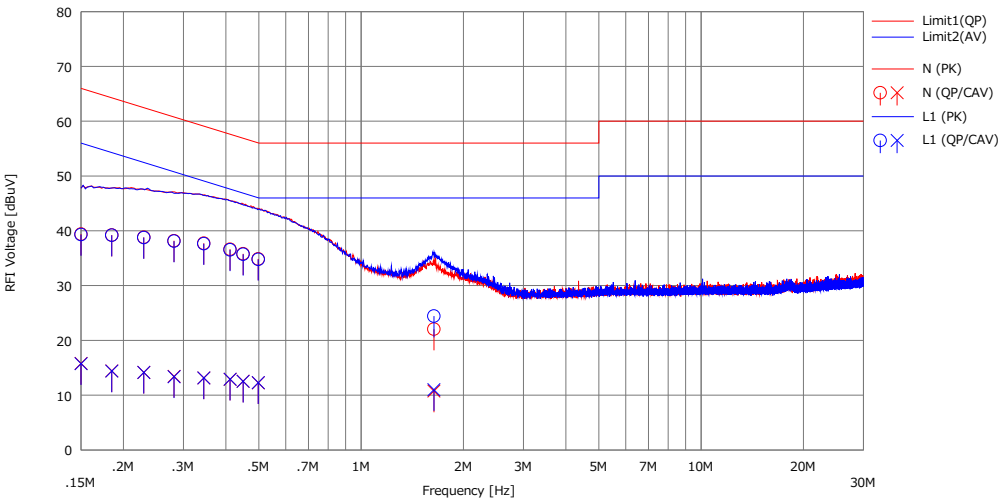
Test results are rounded off and limit are rounded down, so some differences might be observed.
The equipment and cables were not used for factor 0 dB of the data sheets.

Test Data : APPENDIX
Test Result : Pass

APPENDIX 1: Test data

Conducted Emission

Mode	Tx, Hopping Off, DH5 , 2441 MHz			
Date	Test site	Temperature	Humidity	Engineer
January 16, 2026	SR2	23 deg. C	31 % RH	Shiro Kobayashi

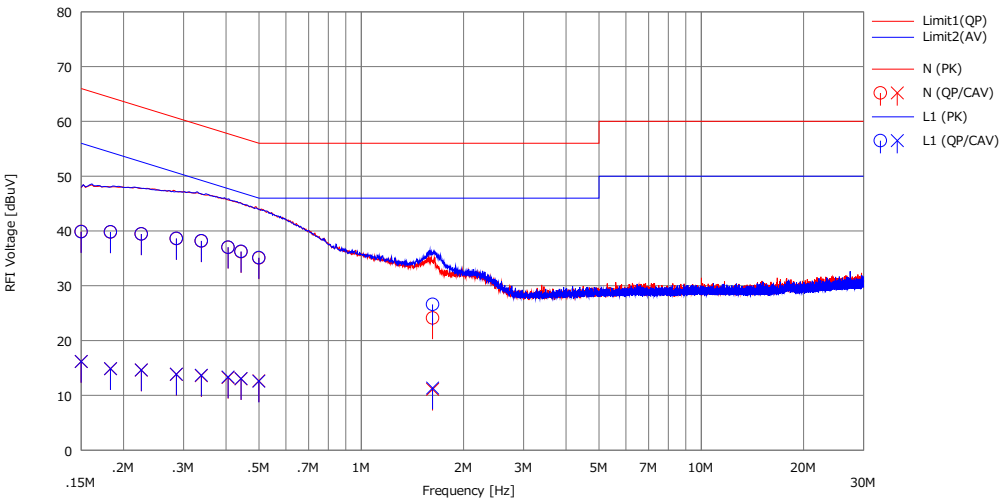


No.	Freq. [MHz]	Reading		C.Fac	Results		Limit		Margin		Phase	Comment
		<QP>	<CAV>		<QP>	<CAV>	<QP>	<AV>	<QP>	<AV>		
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
1	0.15000	23.89	0.31	15.49	39.38	15.80	66.00	56.00	26.6	40.2	N	
2	0.18480	23.73	-1.04	15.47	39.20	14.43	64.27	54.27	25.0	39.8	N	
3	0.22950	23.33	-1.32	15.47	38.80	14.15	62.47	52.47	23.6	38.3	N	
4	0.28170	22.71	-2.05	15.48	38.19	13.43	60.77	50.77	22.5	37.3	N	
5	0.34470	22.24	-2.34	15.48	37.72	13.14	59.09	49.09	21.3	35.9	N	
6	0.41170	21.15	-2.59	15.49	36.64	12.90	57.61	47.61	20.9	34.7	N	
7	0.44960	20.32	-2.94	15.49	35.81	12.55	56.88	46.88	21.0	34.3	N	
8	0.49810	19.35	-3.25	15.51	34.86	12.26	56.03	46.03	21.1	33.7	N	
9	1.63670	6.45	-4.85	15.60	22.05	10.75	56.00	46.00	33.9	35.2	N	
10	0.15000	23.83	0.27	15.47	39.30	15.74	66.00	56.00	26.7	40.2	L1	
11	0.18480	23.71	-1.07	15.47	39.18	14.40	64.27	54.27	25.0	39.8	L1	
12	0.22950	23.28	-1.32	15.48	38.76	14.16	62.47	52.47	23.7	38.3	L1	
13	0.28170	22.62	-2.13	15.49	38.11	13.36	60.77	50.77	22.6	37.4	L1	
14	0.34470	22.15	-2.35	15.49	37.64	13.14	59.09	49.09	21.4	35.9	L1	
15	0.41170	21.02	-2.59	15.50	36.52	12.91	57.61	47.61	21.0	34.7	L1	
16	0.44960	20.21	-2.97	15.50	35.71	12.53	56.88	46.88	21.1	34.3	L1	
17	0.49810	19.27	-3.23	15.51	34.78	12.28	56.03	46.03	21.2	33.7	L1	
18	1.63670	8.82	-4.61	15.60	24.42	10.99	56.00	46.00	31.5	35.0	L1	

Calculation:Result[dBuV]=Reading[dBuV]+C.Fac(LISN(AMN)+Cable+ATT)[dB]
LISN(AMN)=LIMS ID 145540

Conducted Emission

Mode	Tx, Hopping Off, 3DH5 , 2402 MHz + Tx 11a, 5500 MHz			
Date	Test site	Temperature	Humidity	Engineer
January 16, 2026	SR2	23 deg. C	31 % RH	Shiro Kobayashi



No.	Freq. [MHz]	Reading		C.Fac	Results		Limit		Margin		Phase	Comment
		<QP>	<CAV>		<QP>	<CAV>	<QP>	<AV>	<QP>	<AV>		
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
1	0.15000	24.40	0.69	15.49	39.89	16.18	66.00	56.00	26.1	39.8	N	
2	0.18300	24.34	-0.61	15.47	39.81	14.86	64.35	54.35	24.5	39.4	N	
3	0.22540	23.99	-0.85	15.47	39.46	14.62	62.62	52.62	23.1	38.0	N	
4	0.28590	23.13	-1.65	15.48	38.61	13.83	60.64	50.64	22.0	36.8	N	
5	0.33860	22.68	-1.88	15.48	38.16	13.60	59.24	49.24	21.0	35.6	N	
6	0.40590	21.51	-2.23	15.49	37.00	13.26	57.73	47.73	20.7	34.4	N	
7	0.44300	20.72	-2.48	15.49	36.21	13.01	57.01	47.01	20.8	34.0	N	
8	0.49970	19.55	-2.87	15.51	35.06	12.64	56.00	46.00	20.9	33.3	N	
9	1.62060	8.52	-4.51	15.60	24.12	11.09	56.00	46.00	31.8	34.9	N	
10	0.15000	24.40	0.71	15.47	39.87	16.18	66.00	56.00	26.1	39.8	L1	
11	0.18300	24.35	-0.61	15.47	39.82	14.86	64.35	54.35	24.5	39.4	L1	
12	0.22540	23.98	-0.85	15.48	39.46	14.63	62.62	52.62	23.1	37.9	L1	
13	0.28590	23.14	-1.62	15.49	38.63	13.87	60.64	50.64	22.0	36.7	L1	
14	0.33860	22.72	-1.83	15.49	38.21	13.66	59.24	49.24	21.0	35.5	L1	
15	0.40590	21.54	-2.16	15.50	37.04	13.34	57.73	47.73	20.6	34.3	L1	
16	0.44300	20.77	-2.45	15.50	36.27	13.05	57.01	47.01	20.7	33.9	L1	
17	0.49970	19.62	-2.92	15.51	35.13	12.59	56.00	46.00	20.8	33.4	L1	
18	1.62060	10.99	-4.28	15.60	26.59	11.32	56.00	46.00	29.4	34.6	L1	

Calculation: Result[dBuV]=Reading[dBuV]+C.Fac(LISN(AMN)+Cable+ATT)[dB]
LISN(AMN)=LIMS ID 145540

20 dB Bandwidth, 99 % Occupied Bandwidth and Carrier Frequency Separation

Mode	Hopping On / Off
------	------------------

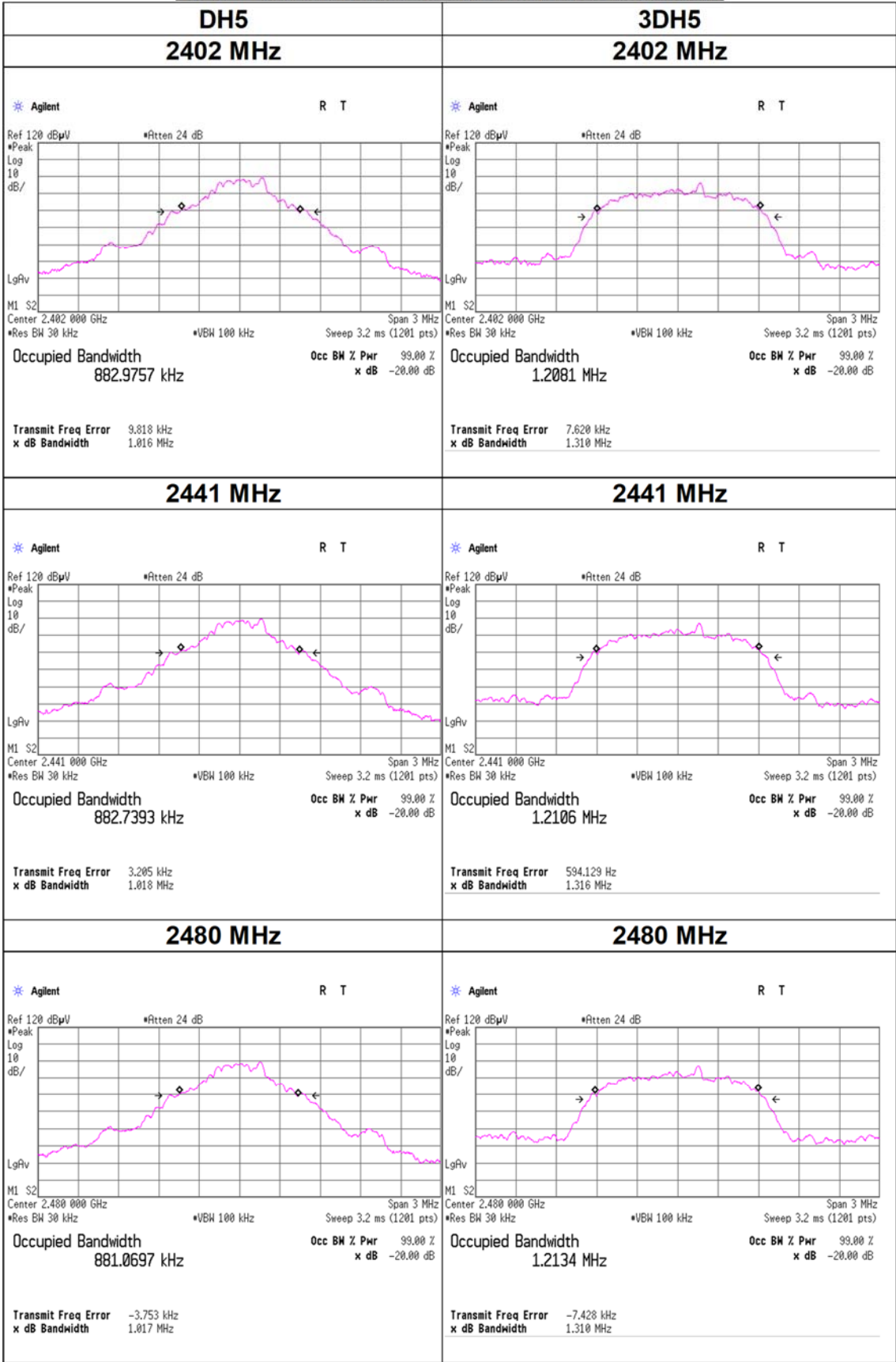
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

Mode	Freq. [MHz]	20 dB Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency separation [MHz]
DH5	2402.0	1.016	883.0	1.000	>= 0.677
DH5	2441.0	1.018	882.7	1.000	>= 0.679
DH5	2480.0	1.017	881.1	1.000	>= 0.678
DH5	Hopping On	-	78607.7	-	-
3DH5	2402.0	1.310	1208.1	1.000	>= 0.873
3DH5	2441.0	1.316	1210.6	1.000	>= 0.877
3DH5	2480.0	1.310	1213.4	1.000	>= 0.873
3DH5	Hopping On	-	78738.3	-	-

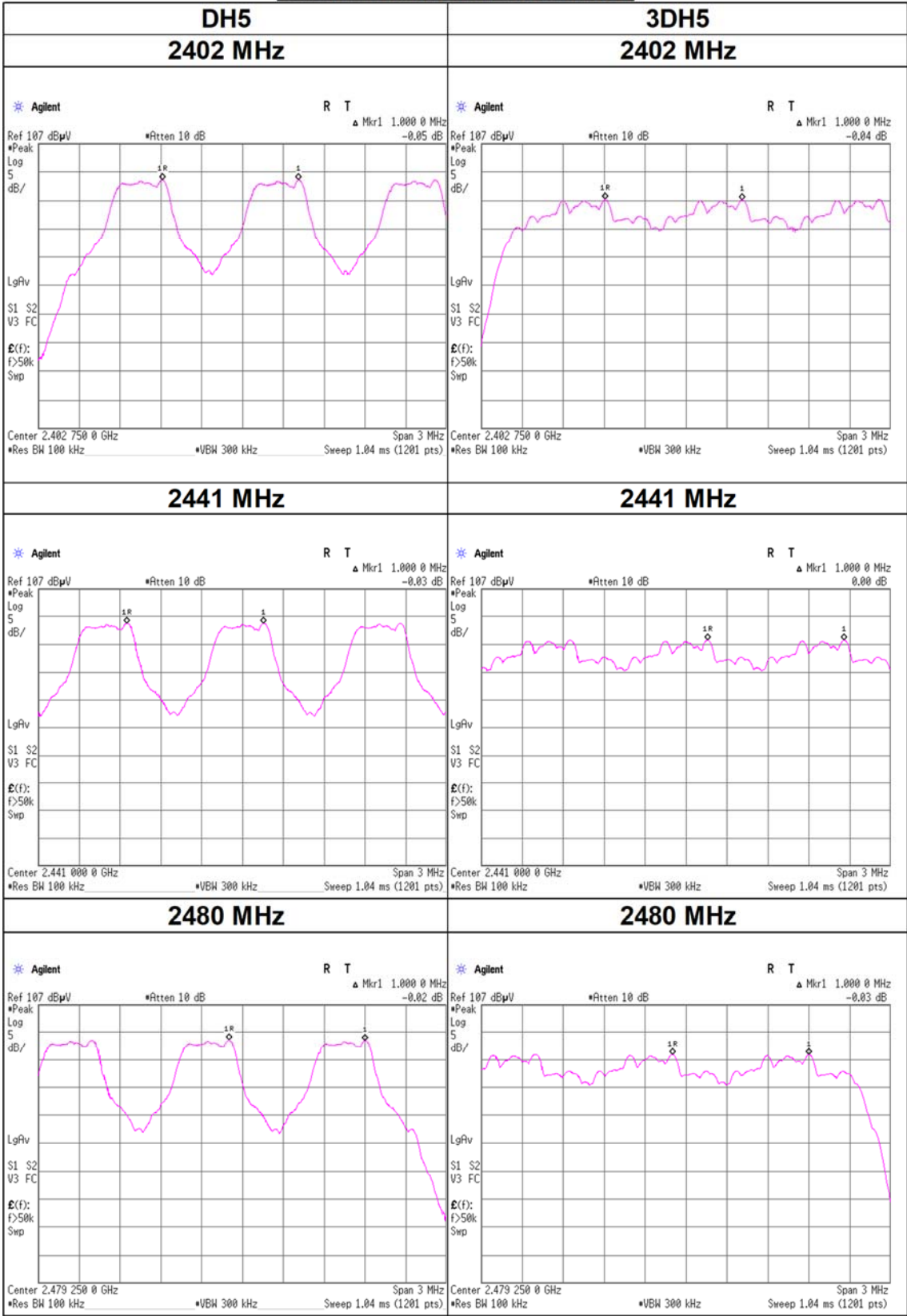
Limit: Two-thirds of 20 dB Bandwidth or 25 kHz (whichever is greater).

No limit applies to 20 dB Bandwidth.

20 dB Bandwidth & 99 % Occupied Bandwidth



Carrier Frequency Separation



Number of Hopping Frequency

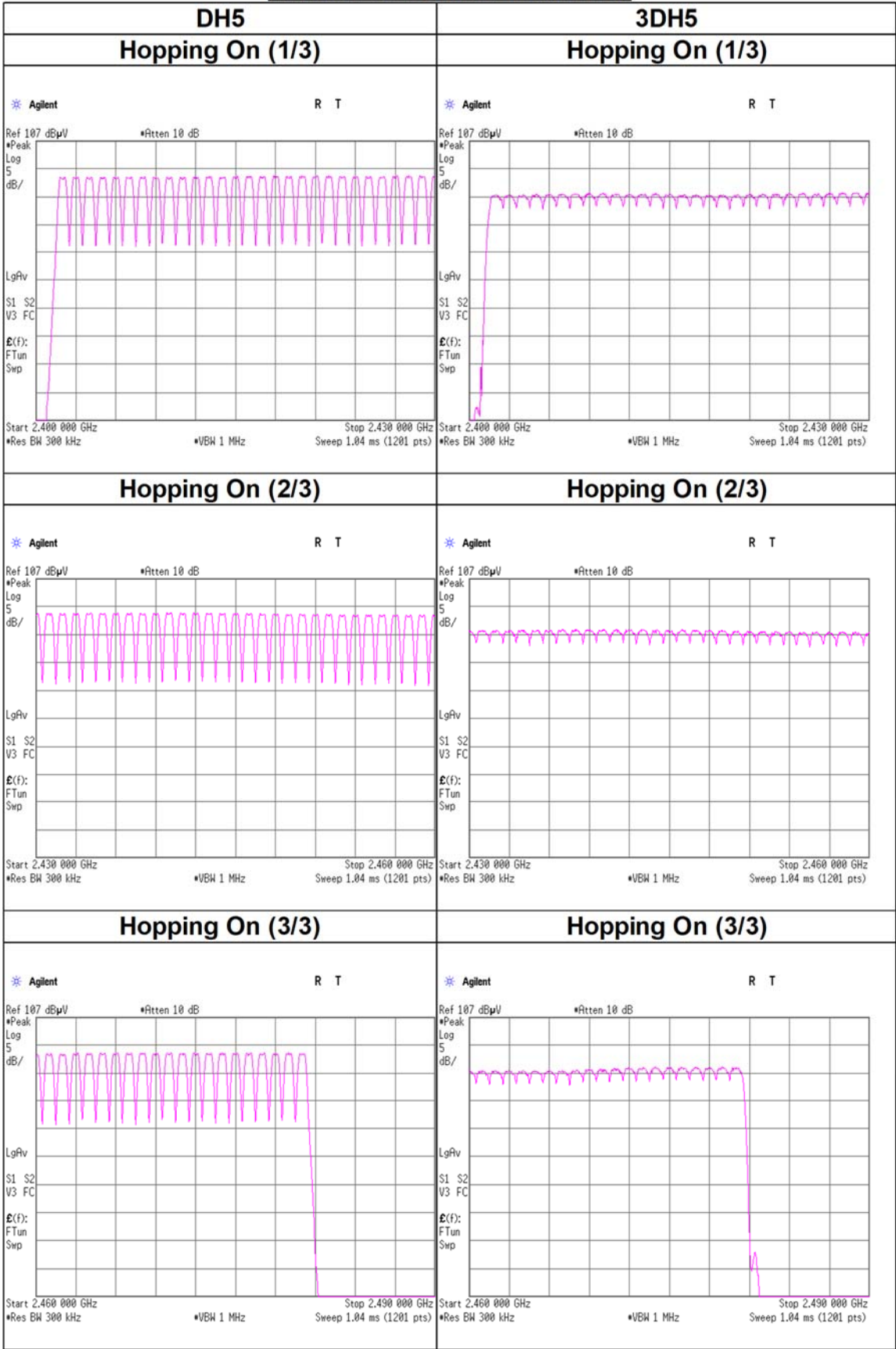
Mode	Tx, Hopping On			
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Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

Mode	Number of channel [channels]	Limit [channels]
DH5	79	>= 15
3DH5	79	>= 15

Test was not performed at AFH mode whose number of hopping channel is
20 channels because this Bluetooth radio is in compliance of Bluetooth Specification.

Number of Hopping Frequency



Dwell time

Mode	Tx, Hopping On
------	----------------

Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

Mode	Number of transmission in a 31.6 (79 Hopping x 0.4)	Length of transmission [ms]	Result [ms]	Limit [ms]
DH1	51.2 times / 5 s x 31.6 s = 324 times	0.389	126	400
DH3	28.4 times / 5 s x 31.6 s = 180 times	1.645	296	400
DH5	20.8 times / 5 s x 31.6 s = 132 times	2.893	382	400
3DH1	50.4 times / 5 s x 31.6 s = 319 times	0.394	126	400
3DH3	27.4 times / 5 s x 31.6 s = 174 times	1.646	286	400
3DH5	21.4 times / 5 s x 31.6 s = 136 times	2.897	394	400

Sample Calculation

Result = Number of transmission x Length of transmission

* Also compliance with the requirements for minimum number of channels(20 hops) made by Bluetooth AFH Specification.

*Average data of 5 tests.

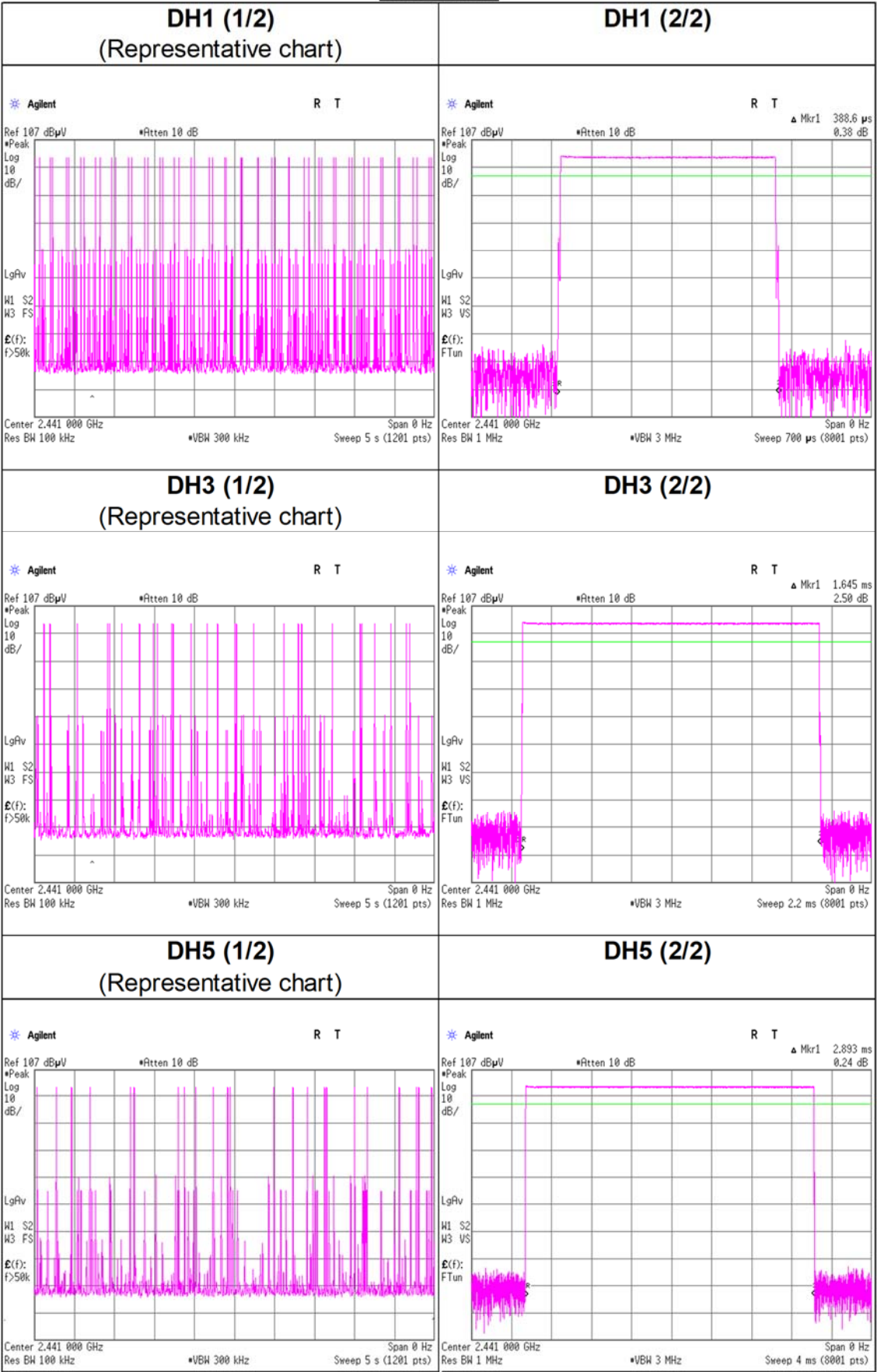
Mode	Sampling [times]					Average [times]
	1	2	3	4	5	
DH1	52	51	51	51	51	51.2
DH3	27	28	28	29	30	28.4
DH5	23	20	19	22	20	20.8
3DH1	50	52	50	50	50	50.4
3DH3	29	27	24	28	29	27.4
3DH5	23	20	21	22	21	21.4

Sample Calculation

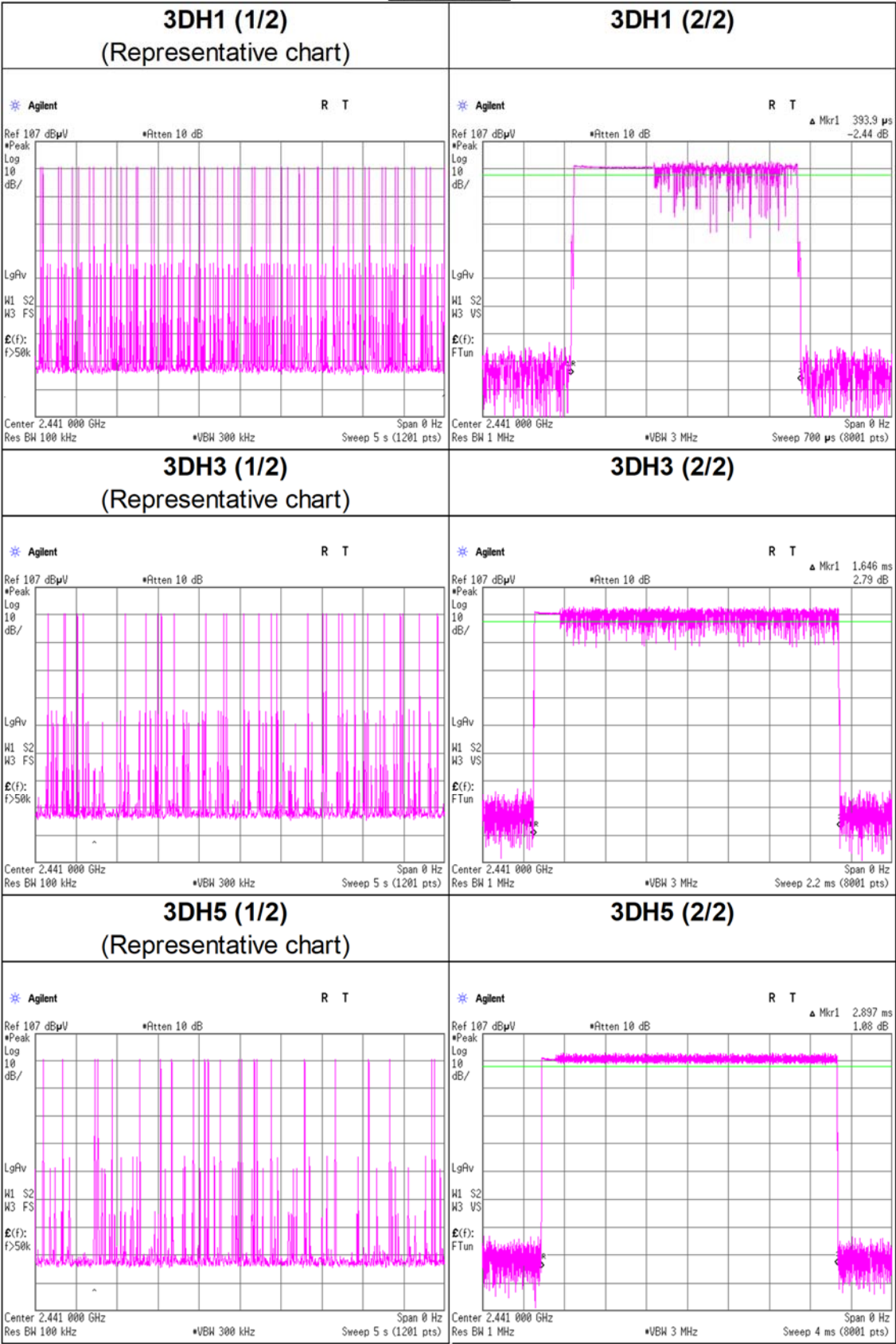
Average = Summation (Sampling 1 to 5) / 5

This device complies with the Bluetooth protocol for FHSS operation, employing a pseudo random channel selection and hopping rate to ensure that the occupancy time in $N \times 0.4$ s, where N is the number of channels being used in the hopping sequence ($20 \leq N \leq 79$), is always less than 0.4 s regardless of packet size. This is confirmed in the test report for $N = 79$.

Dwell time



Dwell time



Maximum Peak Output Power

Mode	Tx, Hopping Off
------	-----------------

Date	Test site	Temperature	Humidity	Engineer
December 5, 2025	SR5	25 deg. C	47 % RH	Makoto Hosaka

Maximum peak output power

					Conducted Power					e.i.r.p. for RSS-247					
Mode	Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]			[dBm]	[mW]	[dBm]	[mW]	
DH5	2402	-6.30	1.56	9.95	5.20	3.31	20.97	125	15.76	4.02	9.22	8.36	36.02	4000	26.80
DH5	2441	-5.81	1.57	9.95	5.71	3.72	20.97	125	15.26	4.02	9.73	9.39	36.02	4000	26.29
DH5	2480	-6.40	1.58	9.95	5.13	3.26	20.97	125	15.84	4.02	9.15	8.22	36.02	4000	26.87
2DH5	2402	-7.19	1.56	9.95	4.31	2.70	20.97	125	16.65	4.02	8.33	6.81	36.02	4000	27.69
2DH5	2441	-6.95	1.57	9.95	4.57	2.86	20.97	125	16.40	4.02	8.59	7.22	36.02	4000	27.43
2DH5	2480	-6.98	1.58	9.95	4.55	2.85	20.97	125	16.42	4.02	8.57	7.20	36.02	4000	27.45
3DH5	2402	-7.01	1.56	9.95	4.49	2.81	20.97	125	16.47	4.02	8.51	7.10	36.02	4000	27.51
3DH5	2441	-6.70	1.57	9.95	4.82	3.03	20.97	125	16.15	4.02	8.84	7.65	36.02	4000	27.18
3DH5	2480	-6.80	1.58	9.95	4.73	2.97	20.97	125	16.24	4.02	8.75	7.50	36.02	4000	27.27

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

Test was not performed at AFH mode, because the decrease of number of channel (min: 20 ch) at AFH mode does not influence on the output power and bandwidth of the EUT.

As this device had AFH mode and frequency separation could not meet the requirement of over 20 dB BW without 2/3 relaxation, 125 mW power limit was applied to it.

Average Output Power (Reference data for RF Exposure)

Mode	Tx, Hopping Off								
------	-----------------	--	--	--	--	--	--	--	--

Date	Test site	Temperature	Humidity	Engineer
December 5, 2025	SR5	25 deg. C	47 % RH	Makoto Hosaka

Average power

Mode	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Time average)		Duty factor [dB]	Result (Burst power average)	
					[dBm]	[mW]		[dBm]	[mW]
DH5	2402	-8.06	1.56	9.95	3.44	2.21	1.38	4.82	3.03
DH5	2441	-7.62	1.57	9.95	3.90	2.45	1.38	5.27	3.37
DH5	2480	-8.13	1.58	9.95	3.40	2.19	1.38	4.78	3.00
2DH5	2402	-11.08	1.56	9.95	0.42	1.10	1.38	1.80	1.51
2DH5	2441	-10.75	1.57	9.95	0.77	1.19	1.38	2.14	1.64
2DH5	2480	-10.64	1.58	9.95	0.89	1.23	1.38	2.27	1.69
3DH5	2402	-11.09	1.56	9.95	0.41	1.10	1.38	1.79	1.51
3DH5	2441	-10.76	1.57	9.95	0.76	1.19	1.38	2.13	1.63
3DH5	2480	-10.65	1.58	9.95	0.88	1.22	1.38	2.26	1.68

Sample Calculation:

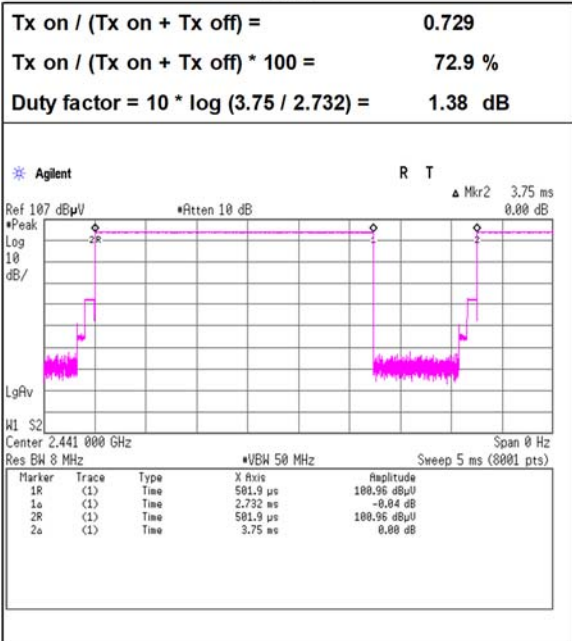
Result (Time average) = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

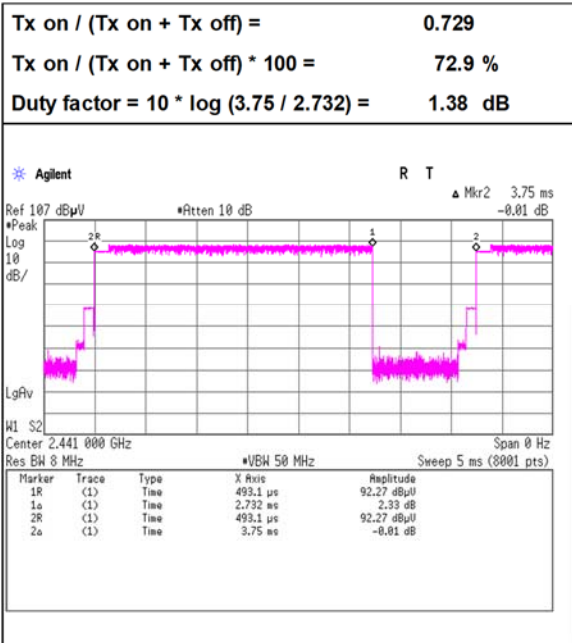
Burst Rate Confirmation

Mode	Tx, Hopping Off			
Date	Test site	Temperature	Humidity	Engineer
December 7, 2025	SR5	20 deg. C	31 % RH	Yosuke Murakami

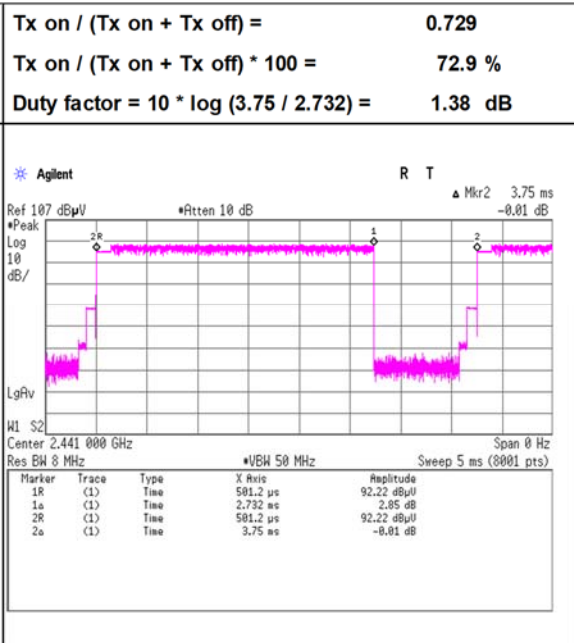
DH5



2DH5



3DH5



Radiated Spurious Emission

Mode	Tx, Hopping Off, DH5, 2402 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz
December 17, 2025	WAC2	21 deg. C	35 % RH	Yosuke Murakami	2.8 GHz to 10 GHz
December 19, 2025	WAC2	18 deg. C	31 % RH	Makoto Hosaka	10 GHz to 18 GHz
December 25, 2025	WAC2	21 deg. C	47 % RH	Makoto Hosaka	18 GHz to 26.5 GHz

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	2390.000	PK	48.17	27.71	-28.32	-	2.37	49.93	73.9	23.9	232	201	-
Hori.	3202.667	PK	50.87	28.39	-36.18	-	2.37	45.45	73.9	28.4	250	176	-
Hori.	4804.000	PK	47.78	31.83	-36.16	-	2.37	45.82	73.9	28.0	150	0	Floor Noise
Hori.	7206.000	PK	47.89	36.28	-34.54	-	2.37	52.00	73.9	21.9	150	0	Floor Noise
Hori.	9608.000	PK	46.96	38.04	-31.47	-	2.37	55.90	73.9	18.0	150	0	Floor Noise
Hori.	4804.000	AV	36.73	31.83	-36.16	-	2.37	34.77	53.9	19.1	150	0	Floor Noise
Hori.	7206.000	AV	37.28	36.28	-34.54	-	2.37	41.39	53.9	12.5	150	0	Floor Noise
Hori.	9608.000	AV	35.86	38.04	-31.47	-	2.37	44.80	53.9	9.1	150	0	Floor Noise
Vert.	2390.000	PK	47.90	27.71	-28.32	-	2.37	49.66	73.9	24.2	150	197	-
Vert.	3202.667	PK	51.38	28.39	-36.18	-	2.37	45.96	73.9	27.9	126	207	-
Vert.	4804.000	PK	47.75	31.83	-36.16	-	2.37	45.79	73.9	28.1	150	0	Floor Noise
Vert.	7206.000	PK	48.58	36.28	-34.54	-	2.37	52.69	73.9	21.2	150	0	Floor Noise
Vert.	9608.000	PK	46.33	38.04	-31.47	-	2.37	55.27	73.9	18.6	150	0	Floor Noise
Vert.	4804.000	AV	37.09	31.83	-36.16	-	2.37	35.13	53.9	18.7	150	0	Floor Noise
Vert.	7206.000	AV	37.11	36.28	-34.54	-	2.37	41.22	53.9	12.6	150	0	Floor Noise
Vert.	9608.000	AV	35.90	38.04	-31.47	-	2.37	44.84	53.9	9.0	150	0	Floor Noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94 [m] / 3.0 [m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori.	2390.000	AV	36.28	27.71	-28.32	-	1.38	2.37	39.42	53.9	14.4	*1)
Hori.	3202.667	AV	43.18	28.39	-36.18	-	1.38	2.37	39.14	53.9	14.7	*2)
Vert.	2390.000	AV	36.57	27.71	-28.32	-	1.38	2.37	39.71	53.9	14.1	*1)
Vert.	3202.667	AV	43.81	28.39	-36.18	-	1.38	2.37	39.77	53.9	14.1	*2)

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94 [m] / 3.0 [m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Duty factor refer to "Burst rate confirmation" sheet.

*1) Not out of band emission (Leakage Power)

*2) Noise synchronized with duty of carrier frequency.

20 dBc Data Sheet

(RBW 100 kHz, VBW 300 kHz)

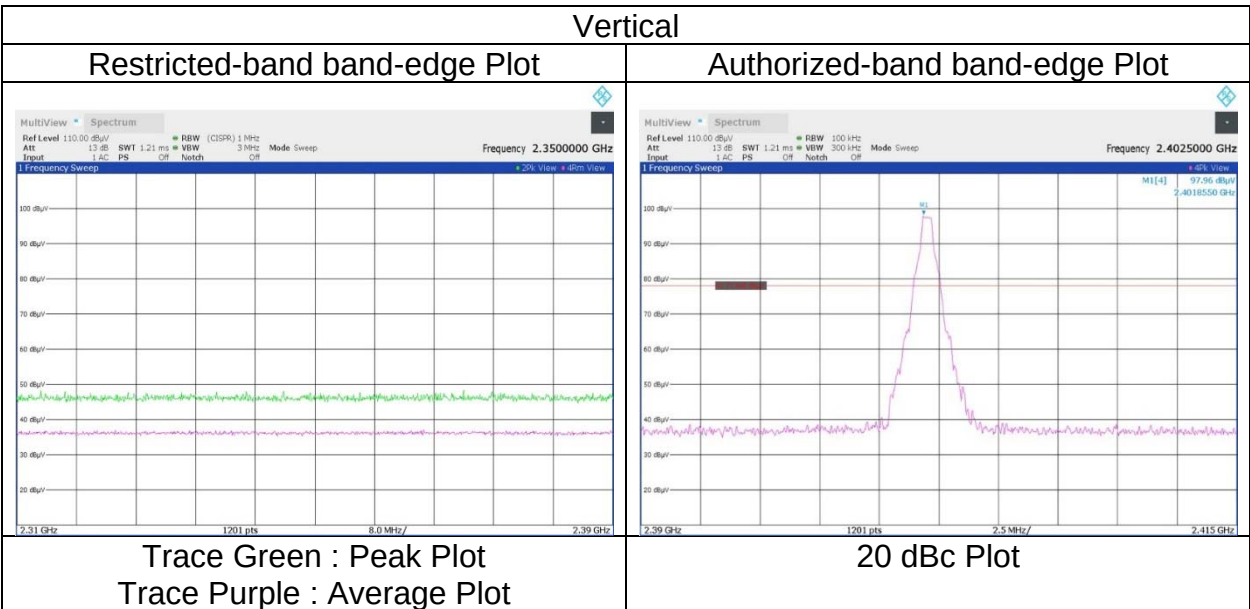
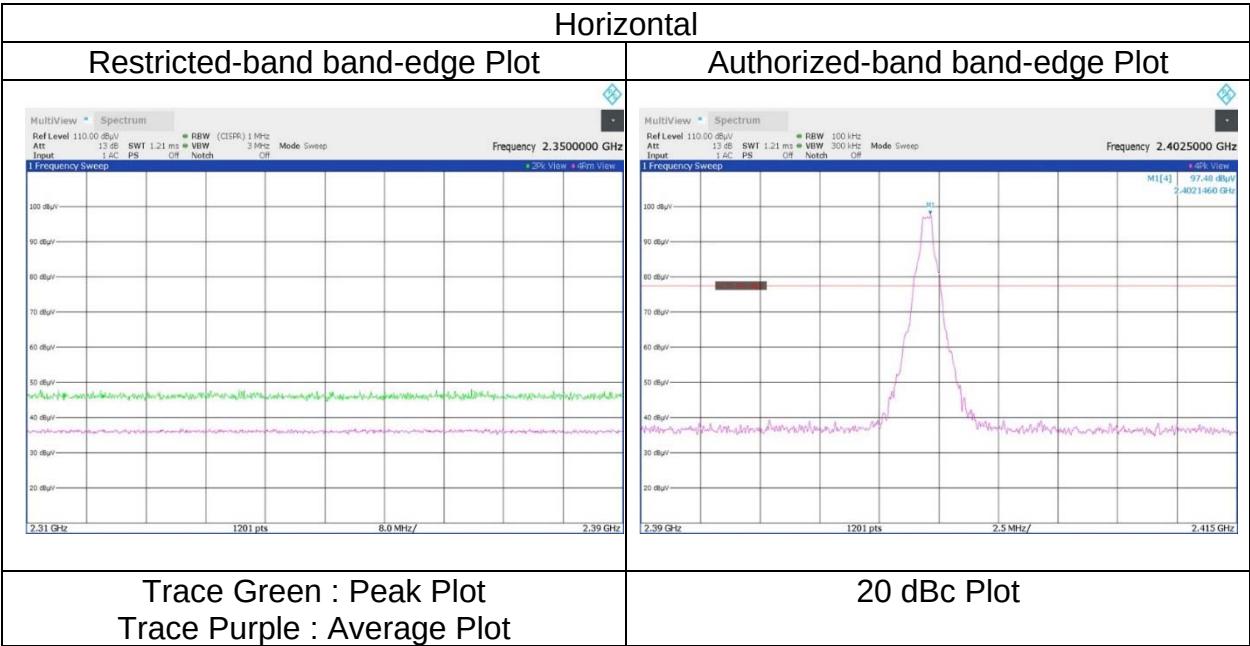
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori.	2402.000	PK	97.48	27.74	-28.31	-	2.37	99.28	-	-	Carrier
Hori.	2400.000	PK	42.40	27.73	-28.32	-	2.37	44.18	79.2	35.0	-
Vert.	2402.000	PK	97.96	27.74	-28.31	-	2.37	99.76	-	-	Carrier
Vert.	2400.000	PK	43.21	27.73	-28.32	-	2.37	44.99	79.7	34.7	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94 [m] / 3.0 [m]) = 2.37 [dB]$

Radiated Spurious Emission
(Reference Plot for band-edge)

Mode	Tx, Hopping Off, DH5, 2402 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz



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

Radiated Spurious Emission

Mode	Tx, Hopping Off, DH5, 2441 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
January 9, 2026	WAC2	20 deg. C	32 % RH	Takayuki Kobayashi	Below 1 GHz
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz
December 17, 2025	WAC2	21 deg. C	35 % RH	Yosuke Murakami	2.8 GHz to 10 GHz
December 19, 2025	WAC2	18 deg. C	31 % RH	Makoto Hosaka	10 GHz to 18 GHz
December 25, 2025	WAC2	21 deg. C	47 % RH	Makoto Hosaka	18 GHz to 26.5 GHz

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	103.255	QP	28.44	9.65	7.06	33.23	0.00	11.92	43.5	31.5	100	0	-
Hori.	141.986	QP	24.11	11.64	7.08	33.20	0.00	9.63	43.5	33.8	100	0	-
Hori.	177.539	QP	23.49	13.11	7.47	33.14	0.00	10.93	43.5	32.5	100	0	-
Hori.	943.098	QP	20.31	22.01	9.16	30.16	0.00	21.32	46.0	24.6	100	0	-
Hori.	3254.667	PK	49.90	28.27	-36.19	-	2.37	44.35	73.9	29.5	290	184	-
Hori.	4882.000	PK	47.99	32.28	-36.14	-	2.37	46.50	73.9	27.4	150	0	Floor Noise
Hori.	7323.000	PK	47.97	36.66	-34.32	-	2.37	52.68	73.9	21.2	150	0	Floor Noise
Hori.	9764.000	PK	46.29	38.09	-31.27	-	2.37	55.48	73.9	18.4	150	0	Floor Noise
Hori.	4882.000	AV	37.25	32.28	-36.14	-	2.37	35.76	53.9	18.1	150	0	Floor Noise
Hori.	7323.000	AV	37.28	36.66	-34.32	-	2.37	41.99	53.9	11.9	150	0	Floor Noise
Hori.	9764.000	AV	35.65	38.09	-31.27	-	2.37	44.84	53.9	9.0	150	0	Floor Noise
Vert.	103.220	QP	34.54	9.65	7.06	33.23	0.00	18.02	43.5	25.4	100	0	-
Vert.	138.451	QP	26.20	11.55	7.03	33.20	0.00	11.58	43.5	31.9	100	0	-
Vert.	177.421	QP	24.16	13.11	7.47	33.14	0.00	11.60	43.5	31.9	100	0	-
Vert.	941.017	QP	20.57	22.01	9.16	30.17	0.00	21.57	46.0	24.4	100	0	-
Vert.	3254.667	PK	50.27	28.27	-36.19	-	2.37	44.72	73.9	29.1	154	169	-
Vert.	4882.000	PK	48.07	32.28	-36.14	-	2.37	46.58	73.9	27.3	150	0	Floor Noise
Vert.	7323.000	PK	47.78	36.66	-34.32	-	2.37	52.49	73.9	21.4	150	0	Floor Noise
Vert.	9764.000	PK	46.50	38.09	-31.27	-	2.37	55.69	73.9	18.2	150	0	Floor Noise
Vert.	4882.000	AV	36.68	32.28	-36.14	-	2.37	35.19	53.9	18.7	150	0	Floor Noise
Vert.	7323.000	AV	37.32	36.66	-34.32	-	2.37	42.03	53.9	11.8	150	0	Floor Noise
Vert.	9764.000	AV	35.53	38.09	-31.27	-	2.37	44.72	53.9	9.1	150	0	Floor Noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m] / 3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m] / 3.0[m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	3254.667	AV	40.12	28.27	-36.19	-	1.38	2.37	35.95	53.9	17.9	*2)
Vert.	3254.667	AV	41.25	28.27	-36.19	-	1.38	2.37	37.08	53.9	16.8	*2)

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m] / 3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m] / 3.0[m]) = -9.54 [dB]$

Duty factor refer to "Burst rate confirmation" sheet.

*2) Noise synchronized with duty of carrier frequency.

Radiated Spurious Emission

Mode	Tx, Hopping Off, DH5, 2480 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz
December 17, 2025	WAC2	21 deg. C	35 % RH	Yosuke Murakami	2.8 GHz to 10 GHz
December 19, 2025	WAC2	18 deg. C	31 % RH	Makoto Hosaka	10 GHz to 18 GHz
December 25, 2025	WAC2	21 deg. C	47 % RH	Makoto Hosaka	18 GHz to 26.5 GHz

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	2483.500	PK	49.91	27.77	-28.26	-	2.37	51.79	73.9	22.1	156	183	-
Hori.	3306.667	PK	49.93	28.34	-36.19	-	2.37	44.45	73.9	29.4	377	237	-
Hori.	4960.000	PK	49.23	32.58	-36.10	-	2.37	48.08	73.9	25.8	150	0	Floor Noise
Hori.	7440.000	PK	48.45	36.79	-34.10	-	2.37	53.51	73.9	20.3	150	0	Floor Noise
Hori.	9920.000	PK	47.00	38.15	-31.07	-	2.37	56.45	73.9	17.4	150	0	Floor Noise
Hori.	4960.000	AV	37.31	32.58	-36.10	-	2.37	36.16	53.9	17.7	150	0	Floor Noise
Hori.	7440.000	AV	37.05	36.79	-34.10	-	2.37	42.11	53.9	11.7	150	0	Floor Noise
Hori.	9920.000	AV	35.79	38.15	-31.07	-	2.37	45.24	53.9	8.6	150	0	Floor Noise
Vert.	2483.500	PK	51.77	27.77	-28.26	-	2.37	53.65	73.9	20.2	219	215	-
Vert.	3306.667	PK	48.79	28.34	-36.19	-	2.37	43.31	73.9	30.5	182	215	-
Vert.	4960.000	PK	47.90	32.58	-36.10	-	2.37	46.75	73.9	27.1	150	0	Floor Noise
Vert.	7440.000	PK	48.35	36.79	-34.10	-	2.37	53.41	73.9	20.4	150	0	Floor Noise
Vert.	9920.000	PK	46.96	38.15	-31.07	-	2.37	56.41	73.9	17.4	150	0	Floor Noise
Vert.	4960.000	AV	37.55	32.58	-36.10	-	2.37	36.40	53.9	17.5	150	0	Floor Noise
Vert.	7440.000	AV	37.14	36.79	-34.10	-	2.37	42.20	53.9	11.7	150	0	Floor Noise
Vert.	9920.000	AV	36.00	38.15	-31.07	-	2.37	45.45	53.9	8.4	150	0	Floor Noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37$ [dB]

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54$ [dB]

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	36.89	27.77	-28.26	-	1.38	2.37	40.15	53.9	13.7	*1)
Hori.	3306.667	AV	38.77	28.34	-36.19	-	1.38	2.37	34.67	53.9	19.2	*2)
Vert.	2483.500	AV	38.07	27.77	-28.26	-	1.38	2.37	41.33	53.9	12.5	*1)
Vert.	3306.667	AV	38.63	28.34	-36.19	-	1.38	2.37	34.53	53.9	19.3	*2)

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37$ [dB]

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54$ [dB]

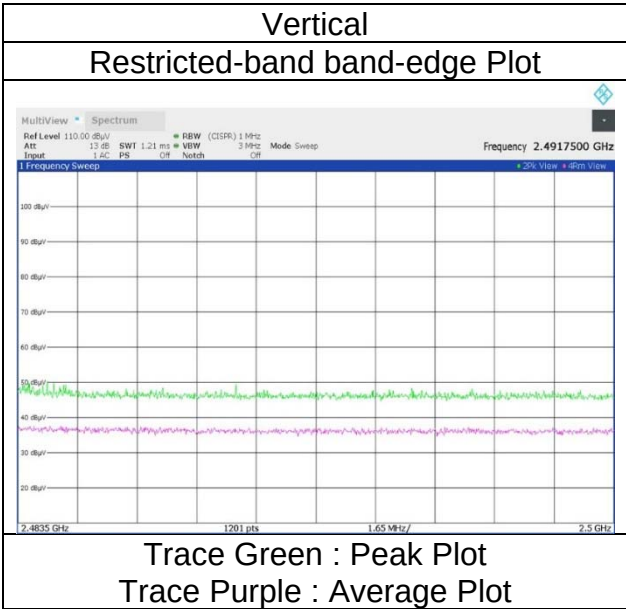
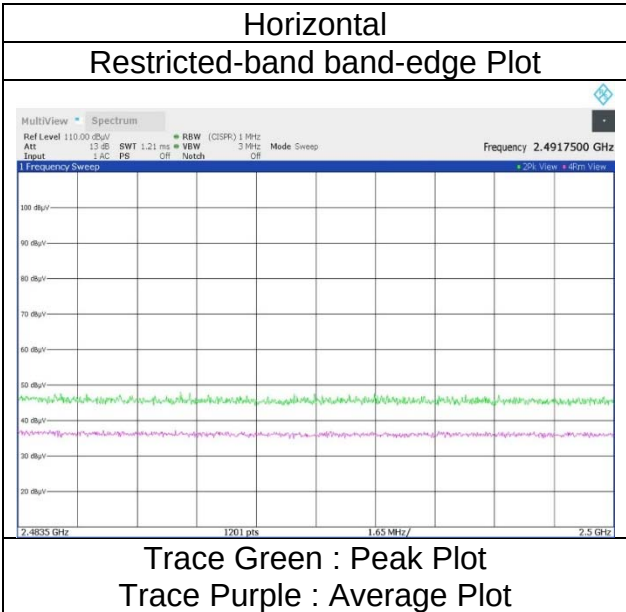
Duty factor refer to "Burst rate confirmation" sheet.

*1) Not out of band emission (Leakage Power)

*2) Noise synchronized with duty of carrier frequency.

Radiated Spurious Emission
(Reference Plot for band-edge)

Mode	Tx, Hopping Off, DH5, 2480 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 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, Hopping Off, 3DH5, 2402 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz
December 18, 2025	WAC2	21 deg. C	31 % RH	Yosuke Murakami	2.8 GHz to 10 GHz
December 19, 2025	WAC2	18 deg. C	31 % RH	Makoto Hosaka	10 GHz to 18 GHz
December 25, 2025	WAC2	21 deg. C	47 % RH	Makoto Hosaka	18 GHz to 26.5 GHz

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	2390.000	PK	47.79	27.71	-28.32	-	2.37	49.55	73.9	24.3	156	174	-
Hori.	3202.667	PK	52.21	28.39	-36.18	-	2.37	46.79	73.9	27.1	148	189	-
Hori.	4804.000	PK	47.94	31.83	-36.16	-	2.37	45.98	73.9	27.9	150	0	Floor Noise
Hori.	7206.000	PK	48.01	36.28	-34.54	-	2.37	52.12	73.9	21.7	150	0	Floor Noise
Hori.	9608.000	PK	46.60	38.04	-31.47	-	2.37	55.54	73.9	18.3	150	0	Floor Noise
Hori.	4804.000	AV	37.01	31.83	-36.16	-	2.37	35.05	53.9	18.8	150	0	Floor Noise
Hori.	7206.000	AV	37.29	36.28	-34.54	-	2.37	41.40	53.9	12.5	150	0	Floor Noise
Hori.	9608.000	AV	36.01	38.04	-31.47	-	2.37	44.95	53.9	8.9	150	0	Floor Noise
Vert.	2390.000	PK	48.40	27.71	-28.32	-	2.37	50.16	73.9	23.7	254	224	-
Vert.	3202.667	PK	53.07	28.39	-36.18	-	2.37	47.65	73.9	26.2	149	218	-
Vert.	4804.000	PK	47.72	31.83	-36.16	-	2.37	45.76	73.9	28.1	150	0	Floor Noise
Vert.	7206.000	PK	48.03	36.28	-34.54	-	2.37	52.14	73.9	21.7	150	0	Floor Noise
Vert.	9608.000	PK	47.21	38.04	-31.47	-	2.37	56.15	73.9	17.7	150	0	Floor Noise
Vert.	4804.000	AV	37.13	31.83	-36.16	-	2.37	35.17	53.9	18.7	150	0	Floor Noise
Vert.	7206.000	AV	37.16	36.28	-34.54	-	2.37	41.27	53.9	12.6	150	0	Floor Noise
Vert.	9608.000	AV	35.96	38.04	-31.47	-	2.37	44.90	53.9	9.0	150	0	Floor Noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	36.23	27.71	-28.32	-	1.38	2.37	39.37	53.9	14.5	*1)
Hori.	3202.667	AV	46.15	28.39	-36.18	-	1.38	2.37	42.11	53.9	11.7	*2)
Vert.	2390.000	AV	36.36	27.71	-28.32	-	1.38	2.37	39.50	53.9	14.4	*1)
Vert.	3202.667	AV	46.90	28.39	-36.18	-	1.38	2.37	42.86	53.9	11.0	*2)

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Duty factor refer to "Burst rate confirmation" sheet.

*1) Not out of band emission (Leakage Power)

*2) Noise synchronized with duty of carrier frequency.

20 dBc Data Sheet

(RBW 100 kHz, VBW 300 kHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2402.000	PK	95.71	27.74	-28.31	-	2.37	97.51	-	-	Carrier
Hori.	2400.000	PK	43.24	27.73	-28.32	-	2.37	45.02	77.5	32.4	-
Vert.	2402.000	PK	95.42	27.74	-28.31	-	2.37	97.22	-	-	Carrier
Vert.	2400.000	PK	44.62	27.73	-28.32	-	2.37	46.40	77.2	30.8	-

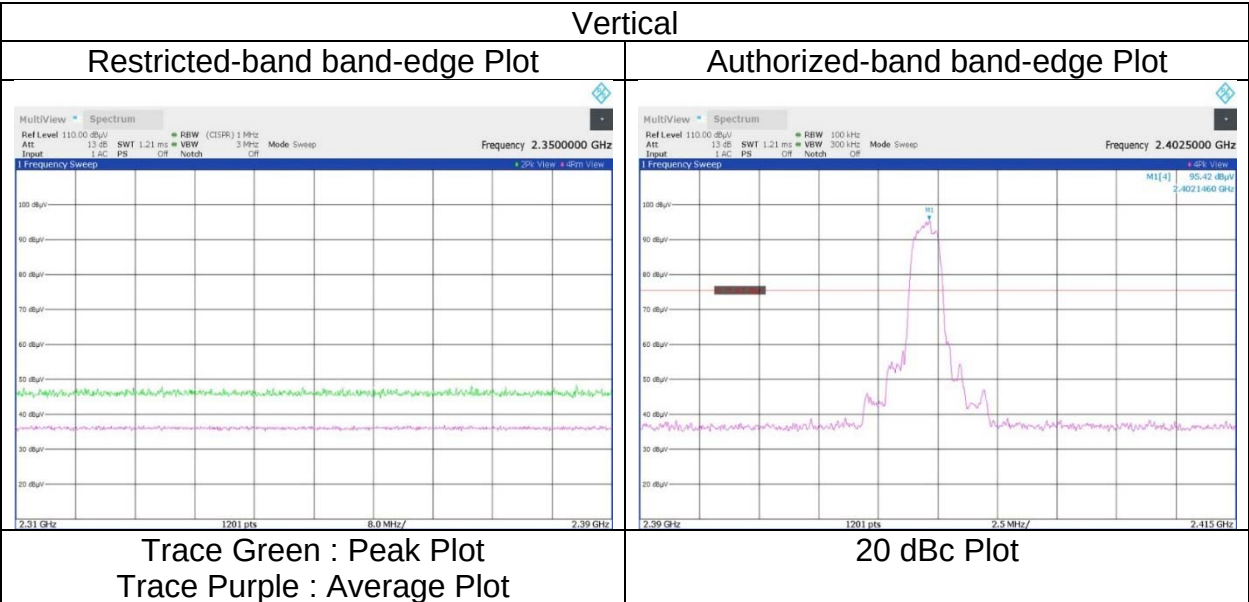
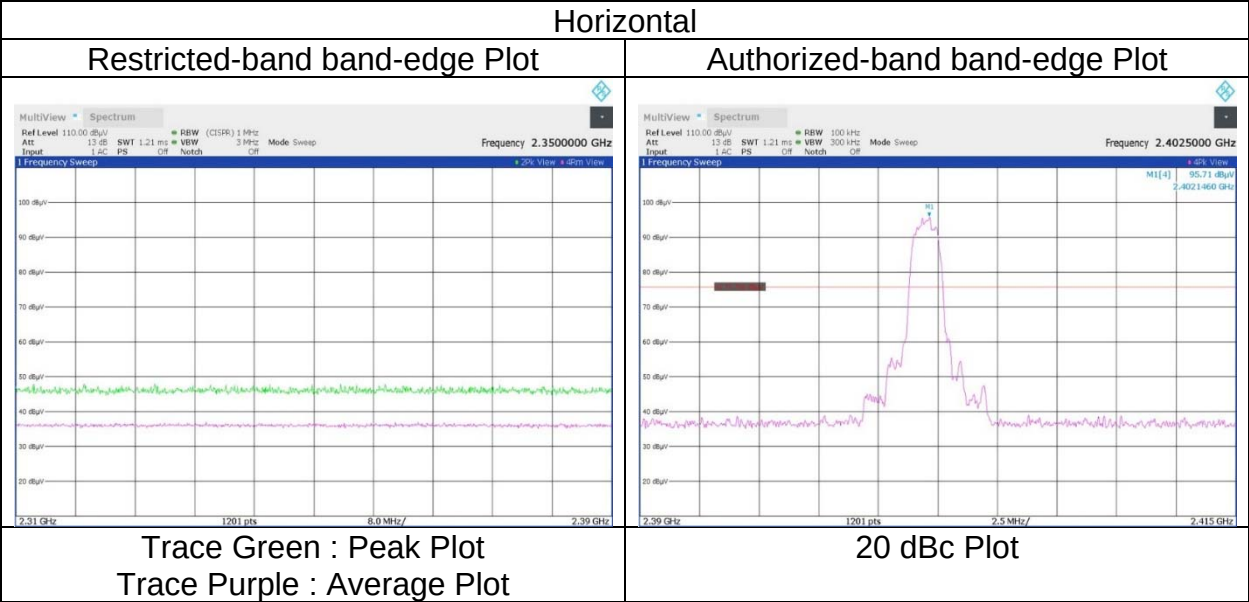
Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Radiated Spurious Emission
(Reference Plot for band-edge)

Mode	Tx, Hopping Off, 3DH5, 2402 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz



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

Radiated Spurious Emission

Mode	Tx, Hopping Off, 3DH5, 2441 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz
December 18, 2025	WAC2	21 deg. C	31 % RH	Yosuke Murakami	2.8 GHz to 10 GHz
December 19, 2025	WAC2	18 deg. C	31 % RH	Makoto Hosaka	10 GHz to 18 GHz
December 25, 2025	WAC2	21 deg. C	47 % RH	Makoto Hosaka	18 GHz to 26.5 GHz

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	3254.667	PK	51.16	28.27	-36.19	-	2.37	45.61	73.9	28.2	212	183	-
Hori.	4882.000	PK	47.10	32.28	-36.14	-	2.37	45.61	73.9	28.2	150	0	Floor Noise
Hori.	7323.000	PK	47.83	36.66	-34.32	-	2.37	52.54	73.9	21.3	150	0	Floor Noise
Hori.	9764.000	PK	46.69	38.09	-31.27	-	2.37	55.88	73.9	18.0	150	0	Floor Noise
Hori.	4882.000	AV	36.75	32.28	-36.14	-	2.37	35.26	53.9	18.6	150	0	Floor Noise
Hori.	7323.000	AV	37.30	36.66	-34.32	-	2.37	42.01	53.9	11.8	150	0	Floor Noise
Hori.	9764.000	AV	35.90	38.09	-31.27	-	2.37	45.09	53.9	8.8	150	0	Floor Noise
Vert.	3254.667	PK	51.43	28.27	-36.19	-	2.37	45.88	73.9	28.0	152	171	-
Vert.	4882.000	PK	47.89	32.28	-36.14	-	2.37	46.40	73.9	27.5	150	0	Floor Noise
Vert.	7323.000	PK	48.16	36.66	-34.32	-	2.37	52.87	73.9	21.0	150	0	Floor Noise
Vert.	9764.000	PK	46.63	38.09	-31.27	-	2.37	55.82	73.9	18.0	150	0	Floor Noise
Vert.	4882.000	AV	36.79	32.28	-36.14	-	2.37	35.30	53.9	18.6	150	0	Floor Noise
Vert.	7323.000	AV	37.36	36.66	-34.32	-	2.37	42.07	53.9	11.8	150	0	Floor Noise
Vert.	9764.000	AV	35.91	38.09	-31.27	-	2.37	45.10	53.9	8.8	150	0	Floor Noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m] / 3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m] / 3.0[m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	3254.667	AV	44.10	28.27	-36.19	-	1.38	2.37	39.93	53.9	13.9	*2)
Vert.	3254.667	AV	43.95	28.27	-36.19	-	1.38	2.37	39.78	53.9	14.1	*2)

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m] / 3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m] / 3.0[m]) = -9.54 [dB]$

Duty factor refer to "Burst rate confirmation" sheet.

*2) Noise synchronized with duty of carrier frequency.

Radiated Spurious Emission

Mode	Tx, Hopping Off, 3DH5, 2480 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz
December 18, 2025	WAC2	21 deg. C	31 % RH	Yosuke Murakami	2.8 GHz to 10 GHz
December 19, 2025	WAC2	18 deg. C	31 % RH	Makoto Hosaka	10 GHz to 18 GHz
December 25, 2025	WAC2	21 deg. C	47 % RH	Makoto Hosaka	18 GHz to 26.5 GHz

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	2483.500	PK	51.20	27.77	-28.26	-	2.37	53.08	73.9	20.8	229	173	-
Hori.	3306.667	PK	49.99	28.34	-36.19	-	2.37	44.51	73.9	29.3	320	235	-
Hori.	4960.000	PK	48.11	32.58	-36.10	-	2.37	46.96	73.9	26.9	150	0	Floor Noise
Hori.	7440.000	PK	48.64	36.79	-34.10	-	2.37	53.70	73.9	20.2	150	0	Floor Noise
Hori.	9920.000	PK	46.81	38.15	-31.07	-	2.37	56.26	73.9	17.6	150	0	Floor Noise
Hori.	4960.000	AV	37.29	32.58	-36.10	-	2.37	36.14	53.9	17.7	150	0	Floor Noise
Hori.	7440.000	AV	37.18	36.79	-34.10	-	2.37	42.24	53.9	11.6	150	0	Floor Noise
Hori.	9920.000	AV	35.94	38.15	-31.07	-	2.37	45.39	53.9	8.5	150	0	Floor Noise
Vert.	2483.500	PK	52.12	27.77	-28.26	-	2.37	54.00	73.9	19.9	174	208	-
Vert.	2483.576	PK	52.75	27.77	-28.26	-	2.37	54.63	73.9	19.2	174	208	-
Vert.	3306.667	PK	50.65	28.34	-36.19	-	2.37	45.17	73.9	28.7	184	217	-
Vert.	4960.000	PK	48.60	32.58	-36.10	-	2.37	47.45	73.9	26.4	150	0	Floor Noise
Vert.	7440.000	PK	48.21	36.79	-34.10	-	2.37	53.27	73.9	20.6	150	0	Floor Noise
Vert.	9920.000	PK	46.94	38.15	-31.07	-	2.37	56.39	73.9	17.5	150	0	Floor Noise
Vert.	4960.000	AV	37.34	32.58	-36.10	-	2.37	36.19	53.9	17.7	150	0	Floor Noise
Vert.	7440.000	AV	37.13	36.79	-34.10	-	2.37	42.19	53.9	11.7	150	0	Floor Noise
Vert.	9920.000	AV	35.85	38.15	-31.07	-	2.37	45.30	53.9	8.6	150	0	Floor Noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m] / 3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m] / 3.0[m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	36.61	27.77	-28.26	-	1.38	2.37	39.87	53.9	14.0	*1)
Hori.	3306.667	AV	40.78	28.34	-36.19	-	1.38	2.37	36.68	53.9	17.2	*2)
Vert.	2483.500	AV	36.82	27.77	-28.26	-	1.38	2.37	40.08	53.9	13.8	*1)
Vert.	2483.576	AV	36.85	27.77	-28.26	-	1.38	2.37	40.11	53.9	13.7	*2)
Vert.	3306.667	AV	41.77	28.34	-36.19	-	1.38	2.37	37.67	53.9	16.2	*2)

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m] / 3.0[m]) = 2.37 [dB]$

10 GHz to 40 GHz : $20\log(1.00[m] / 3.0[m]) = -9.54 [dB]$

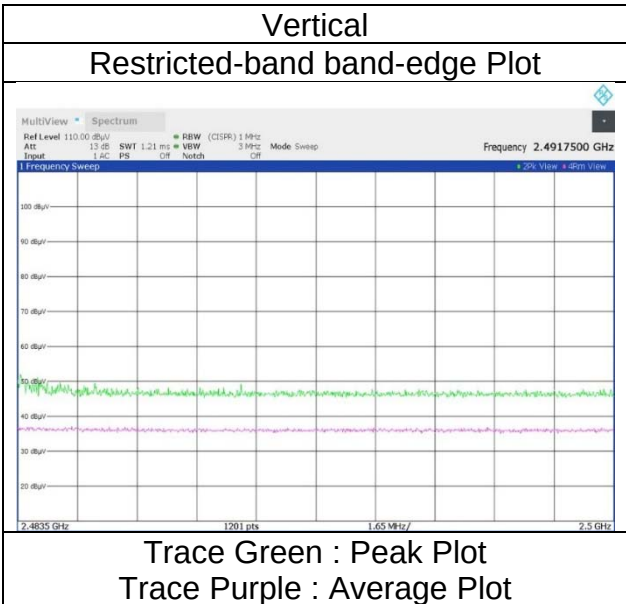
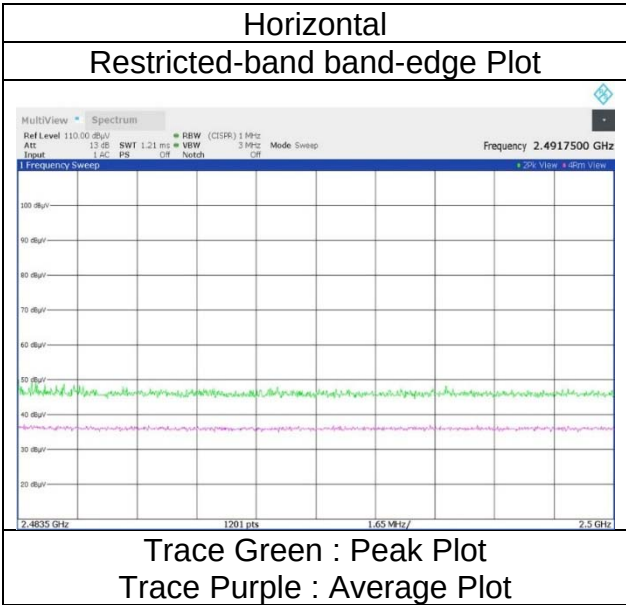
Duty factor refer to "Burst rate confirmation" sheet.

*1) Not out of band emission (Leakage Power)

*2) Noise synchronized with duty of carrier frequency.

Radiated Spurious Emission
(Reference Plot for band-edge)

Mode	Tx, Hopping Off, 3DH5, 2480 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 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, Hopping Off, 3DH5, 2402 MHz with 11a 5500 MHz
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ate	Test site	Temperature	Humidity	Engineer	Measurement Range
January 9, 2026	WAC2	19 deg. C	32 % RH	Masahide Ozaki	Below 1 GHz
January 8, 2026	WAC2	23 deg. C	31 % RH	Naoki Saga	1 GHz to 10 GHz
December 24, 2025	WAC2	19 deg. C	41 % RH	Makoto Hosaka	10 GHz to 18 GHz
January 8, 2026	WAC2	18 deg. C	35 % RH	Takayuki Kobayashi	18 GHz to 26.5 GHz

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	34.166	QP	22.60	12.69	6.36	32.80	0.00	8.85	40.0	31.1	100	0	-
Hori.	122.673	QP	23.10	10.89	6.92	33.21	0.00	7.70	43.5	35.8	100	0	-
Hori.	156.076	QP	25.50	12.01	7.34	33.18	0.00	11.67	43.5	31.8	100	208	-
Hori.	924.510	QP	20.30	22.04	9.13	30.27	0.00	21.20	46.0	24.8	100	0	-
Hori.	2390.000	PK	48.64	27.71	-28.32	-	2.37	50.40	73.9	23.5	144	203	-
Hori.	3202.347	PK	52.42	28.39	-36.18	-	2.37	47.00	73.9	26.9	154	2	-
Hori.	4804.000	PK	48.56	31.83	-36.16	-	2.37	46.60	73.9	27.3	150	0	Floor Noise
Hori.	7206.000	PK	48.37	36.28	-34.45	-	2.37	52.57	73.9	21.3	150	0	Floor Noise
Hori.	9608.000	PK	46.74	38.04	-31.90	-	2.37	55.25	73.9	18.6	150	0	Floor Noise
Hori.	4804.000	AV	37.64	31.83	-36.16	-	2.37	35.68	53.9	18.2	150	0	Floor Noise
Hori.	7206.000	AV	37.21	36.28	-34.45	-	2.37	41.41	53.9	12.4	150	0	Floor Noise
Hori.	9608.000	AV	35.72	38.04	-31.90	-	2.37	44.23	53.9	9.6	150	0	Floor Noise
Vert.	31.283	QP	22.50	13.42	6.31	32.71	0.00	9.52	40.0	30.4	100	0	-
Vert.	76.384	QP	25.10	9.12	6.78	33.22	0.00	7.78	40.0	32.2	100	313	-
Vert.	140.005	QP	26.00	11.59	7.04	33.20	0.00	11.43	43.5	32.0	100	281	-
Vert.	156.030	QP	29.80	12.01	7.33	33.18	0.00	15.96	43.5	27.5	100	260	-
Vert.	179.998	QP	27.80	13.28	7.45	33.14	0.00	15.39	43.5	28.1	100	22	-
Vert.	182.255	QP	23.10	13.45	7.43	33.13	0.00	10.85	43.5	32.6	100	0	-
Vert.	813.320	QP	20.80	20.87	8.96	30.91	0.00	19.72	46.0	26.2	100	0	-
Vert.	2390.000	PK	48.88	27.71	-28.32	-	2.37	50.64	73.9	23.2	136	183	-
Vert.	3202.670	PK	53.89	28.39	-36.18	-	2.37	48.47	73.9	25.4	165	166	-
Vert.	4804.000	PK	48.78	31.83	-36.16	-	2.37	46.82	73.9	27.0	150	0	Floor Noise
Vert.	7206.000	PK	48.62	36.28	-34.45	-	2.37	52.82	73.9	21.0	150	0	Floor Noise
Vert.	9608.000	PK	47.12	38.04	-31.90	-	2.37	55.63	73.9	18.2	150	0	Floor Noise
Vert.	4804.000	AV	37.72	31.83	-36.16	-	2.37	35.76	53.9	18.1	150	0	Floor Noise
Vert.	7206.000	AV	37.49	36.28	-34.45	-	2.37	41.69	53.9	12.2	150	0	Floor Noise
Vert.	9608.000	AV	35.74	38.04	-31.90	-	2.37	44.25	53.9	9.6	150	0	Floor Noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37[dB]$

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	37.13	27.71	-28.32	-	1.38	2.37	40.27	53.9	13.6	*1)
Hori.	3202.347	AV	45.23	28.39	-36.18	-	1.38	2.37	41.19	53.9	12.7	*2)
Vert.	2390.000	AV	37.27	27.71	-28.32	-	1.38	2.37	40.41	53.9	13.4	*1)
Vert.	3202.670	AV	47.56	28.39	-36.18	-	1.38	2.37	43.52	53.9	10.3	*2)

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37[dB]$

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Duty factor refer to "Burst rate confirmation" sheet.

*1) Not out of band emission (Leakage Power)

*2) Noise synchronized with duty of carrier frequency.

20 dBc Data Sheet

(RBW 100 kHz, VBW 300 kHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2402.000	PK	96.44	27.74	-28.31	-	2.37	98.24	-	-	Carrier
Hori.	2399.519	PK	46.68	27.73	-28.32	-	2.37	48.46	78.2	29.7	-
Hori.	2400.000	PK	44.04	27.73	-28.32	-	2.37	45.82	78.2	32.3	-
Vert.	2402.000	PK	97.09	27.74	-28.31	-	2.37	98.89	-	-	Carrier
Vert.	2399.513	PK	47.26	27.73	-28.32	-	2.37	49.04	78.8	29.7	-
Vert.	2400.000	PK	44.85	27.73	-28.32	-	2.37	46.63	78.8	32.1	-

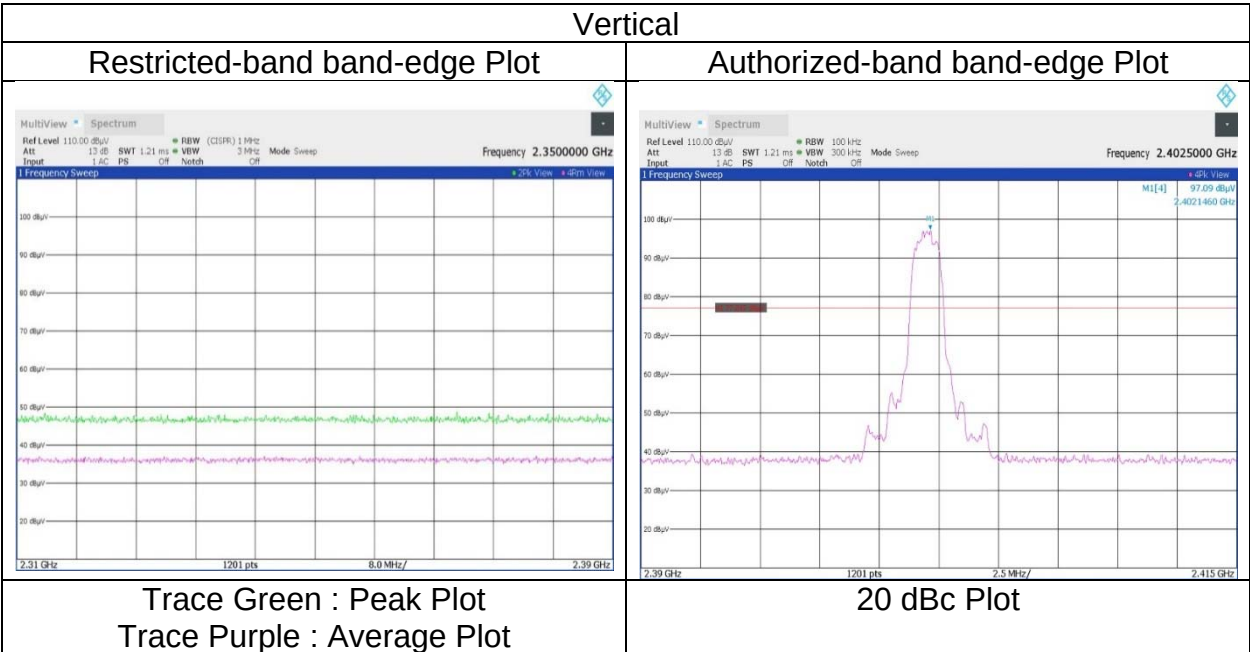
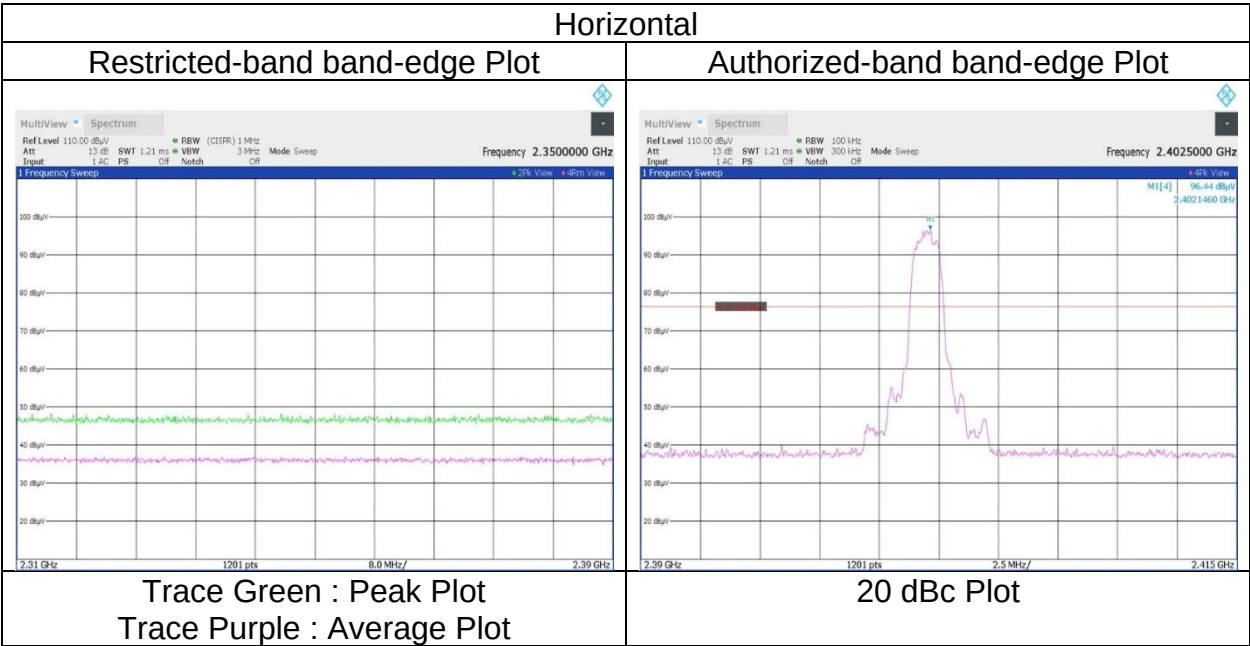
Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.94[m]/3.0[m]) = 2.37[dB]$

10 GHz to 40 GHz : $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission
(Reference Plot for band-edge)

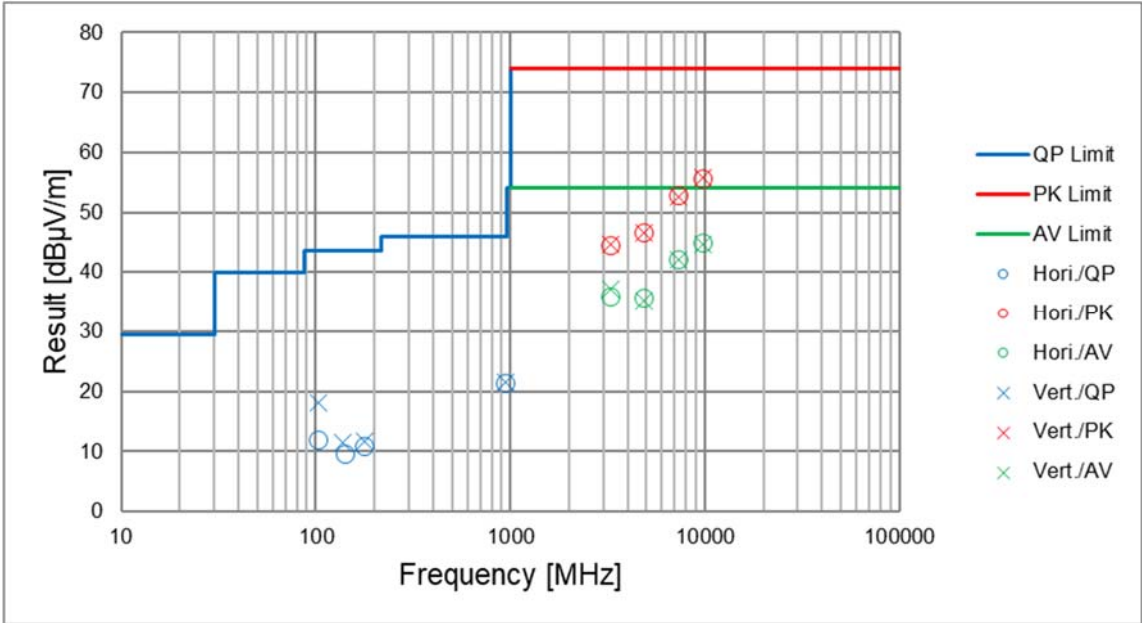
Mode	Tx, Hopping Off, 3DH5, 2402 MHz with 11a 5500 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
January 8, 2026	WAC2	23 deg. C	31 % RH	Naoki Saga	1 GHz to 2.8 GHz



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

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

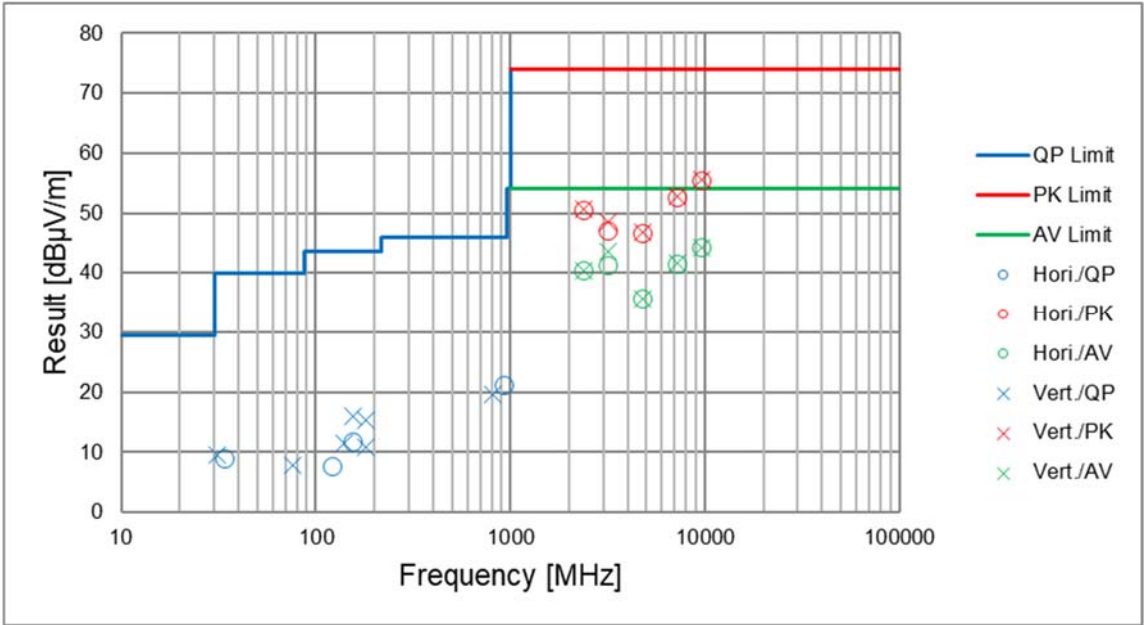
Mode	Tx, Hopping Off, DH5, 2441 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
January 9, 2026	WAC2	20 deg. C	32 % RH	Takayuki Kobayashi	Below 1 GHz
December 10, 2025	WAC2	20 deg. C	25 % RH	Yuta Shiba	1 GHz to 2.8 GHz
December 17, 2025	WAC2	21 deg. C	35 % RH	Yosuke Murakami	2.8 GHz to 10 GHz
December 19, 2025	WAC2	18 deg. C	31 % RH	Makoto Hosaka	10 GHz to 18 GHz
December 25, 2025	WAC2	21 deg. C	47 % RH	Makoto Hosaka	18 GHz to 26.5 GHz



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

Radiated Spurious Emission
(Plot data, Simultaneous transmission)

Mode	Tx, Hopping Off, 3DH5, 2402 MHz with 11a 5500 MHz				
ate	Test site	Temperature	Humidity	Engineer	Measurement Range
January 9, 2026	WAC2	19 deg. C	32 % RH	Masahide Ozaki	Below 1 GHz
January 8, 2026	WAC2	23 deg. C	31 % RH	Naoki Saga	1 GHz to 10 GHz
December 24, 2025	WAC2	19 deg. C	41 % RH	Makoto Hosaka	10 GHz to 18 GHz
January 8, 2026	WAC2	18 deg. C	35 % RH	Takayuki Kobayashi	18 GHz to 26.5 GHz

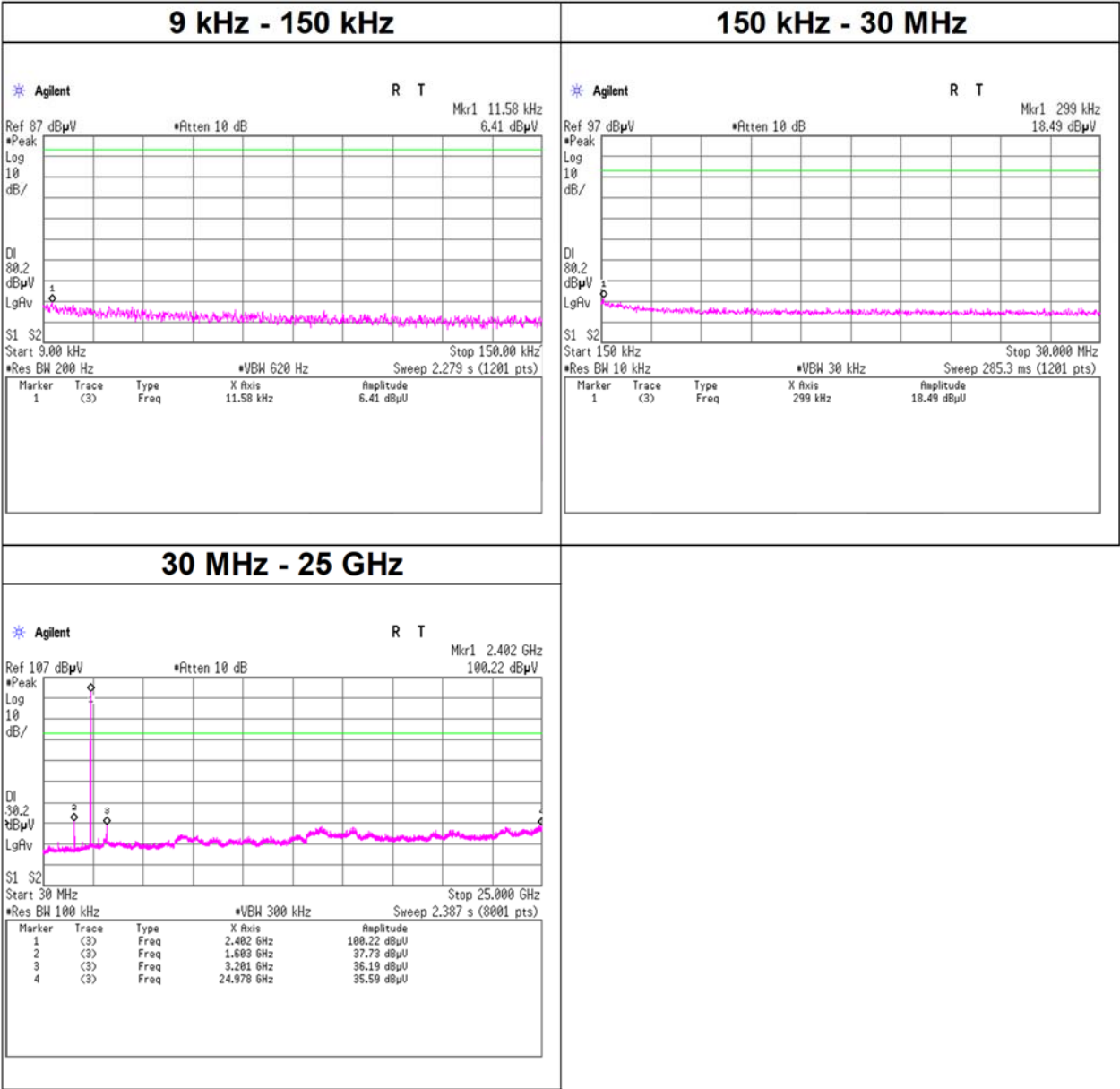


*These plots data contain sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Mode	Tx, Hopping Off, DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

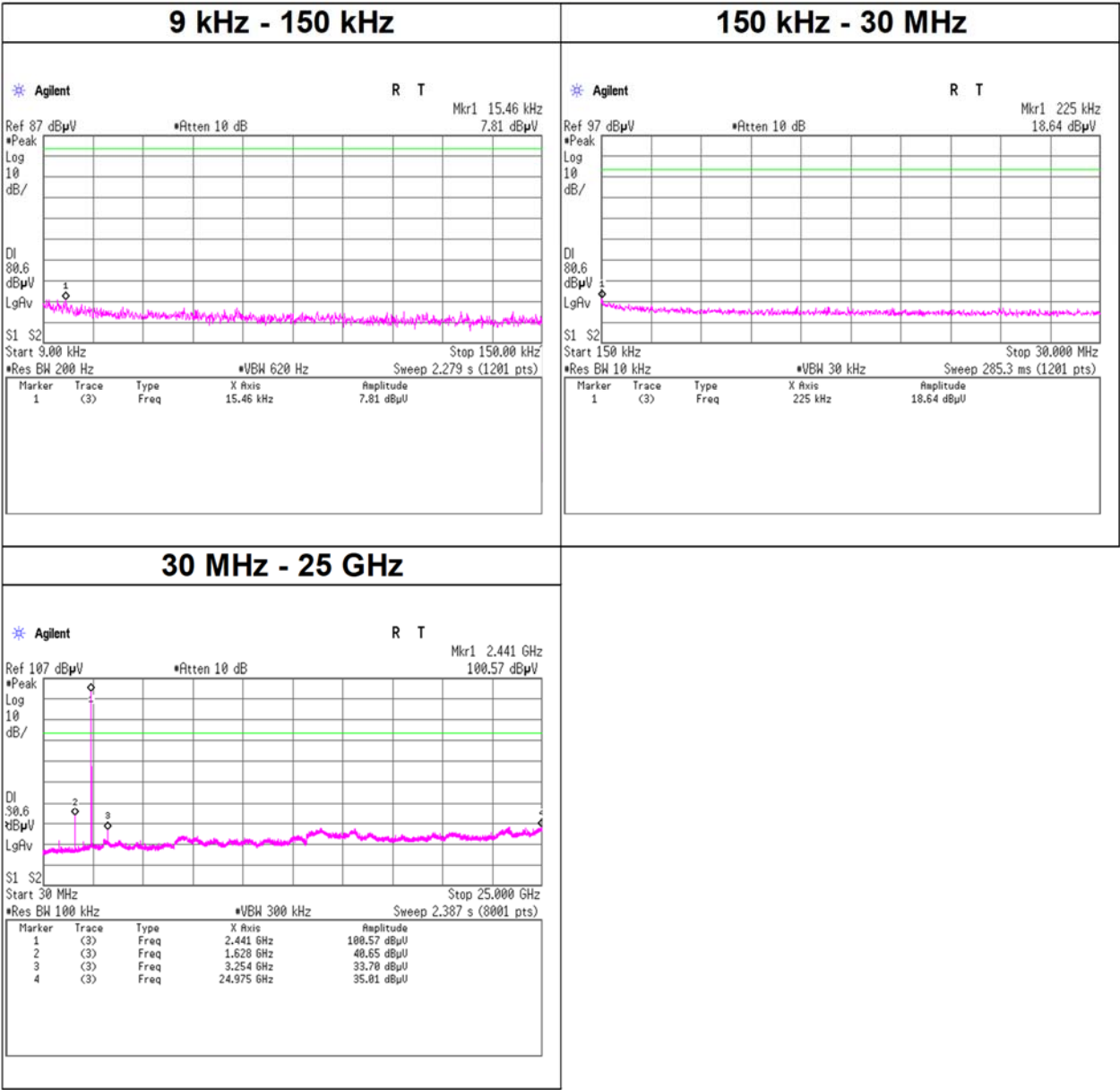
2402 MHz



Conducted Spurious Emission

Mode	Tx, Hopping Off, DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

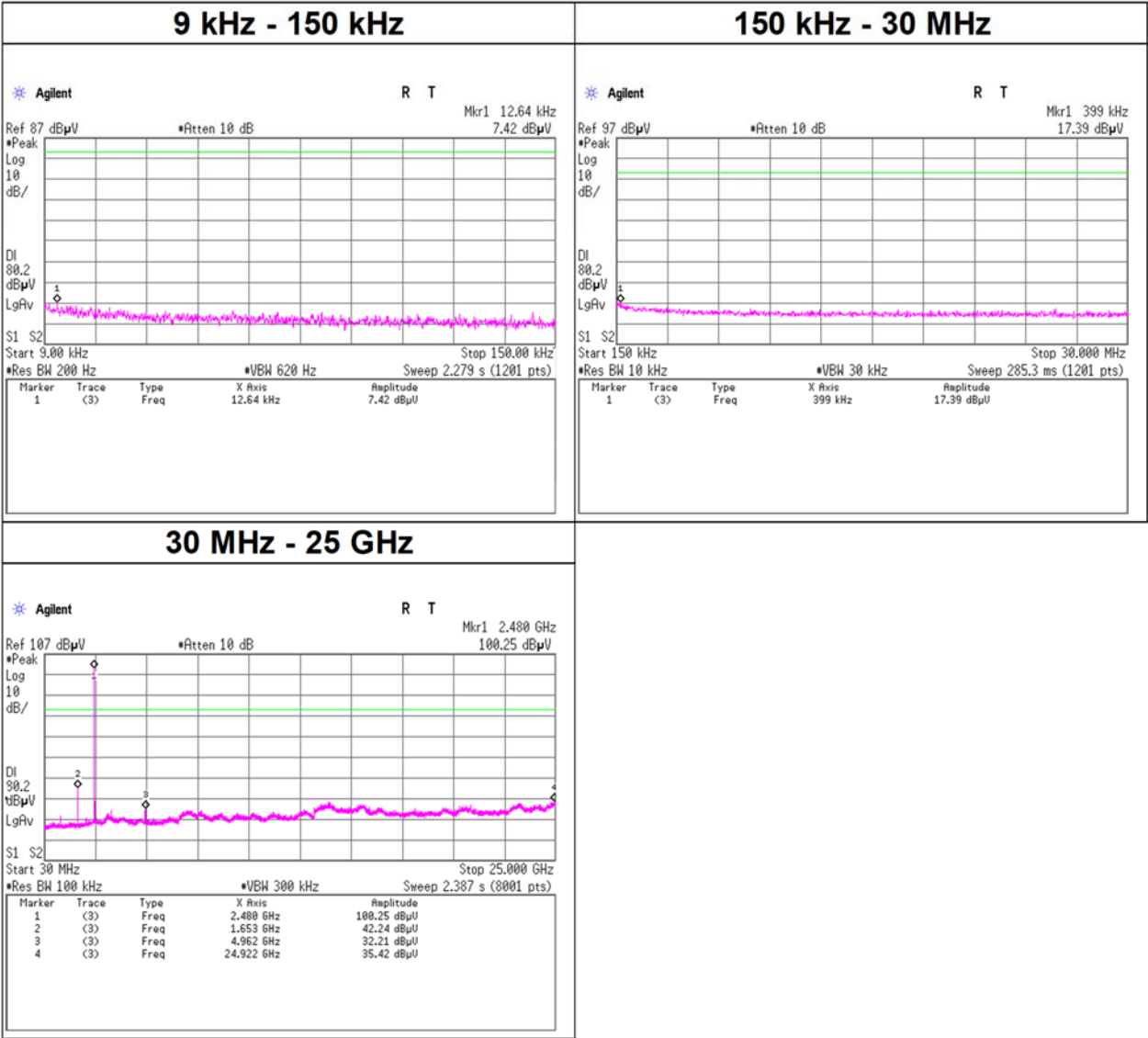
2441 MHz



Conducted Spurious Emission

Mode	Tx, Hopping Off, DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

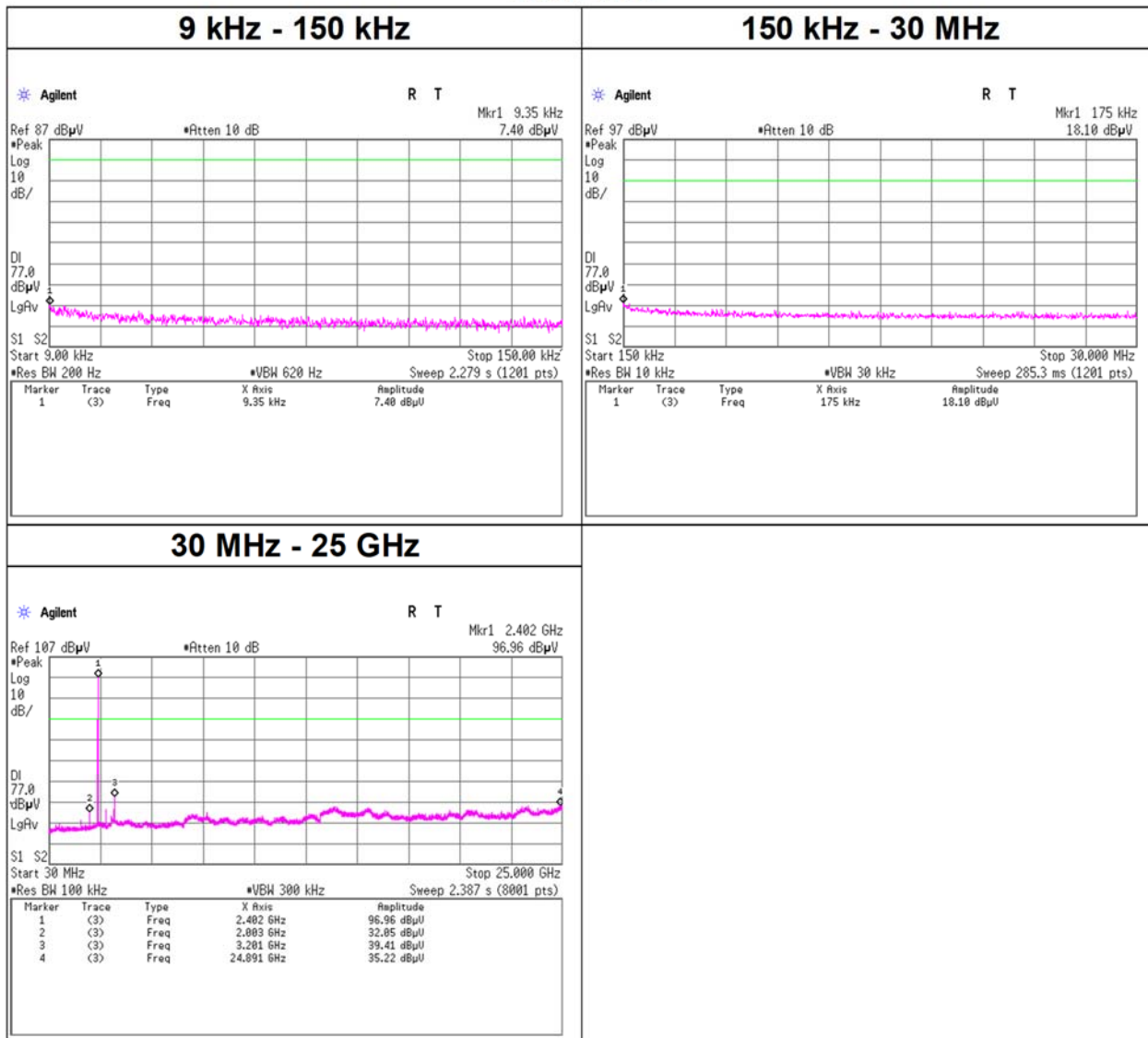
2480 MHz



Conducted Spurious Emission

Mode	Tx, Hopping Off, 3DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

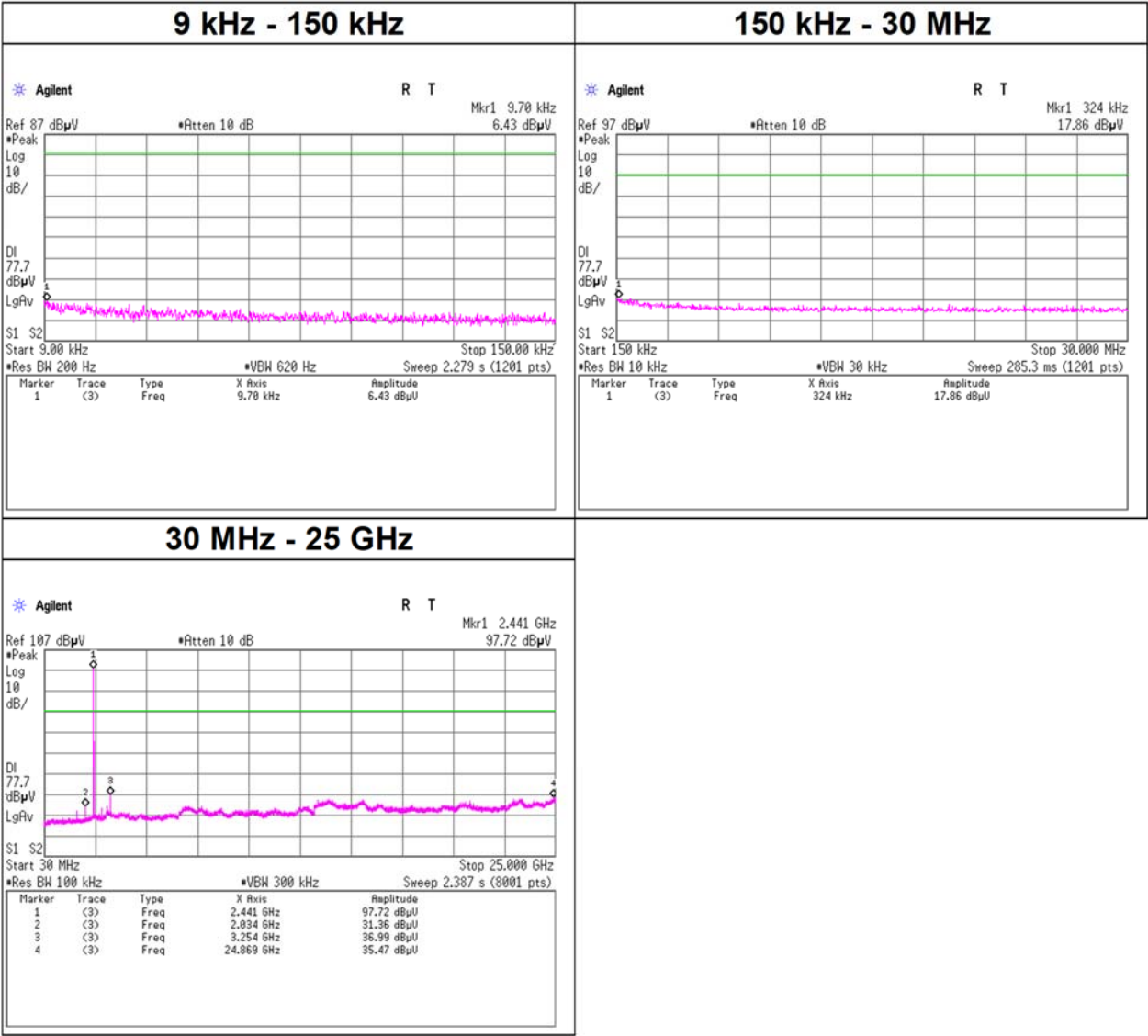
2402 MHz



Conducted Spurious Emission

Mode	Tx, Hopping Off, 3DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

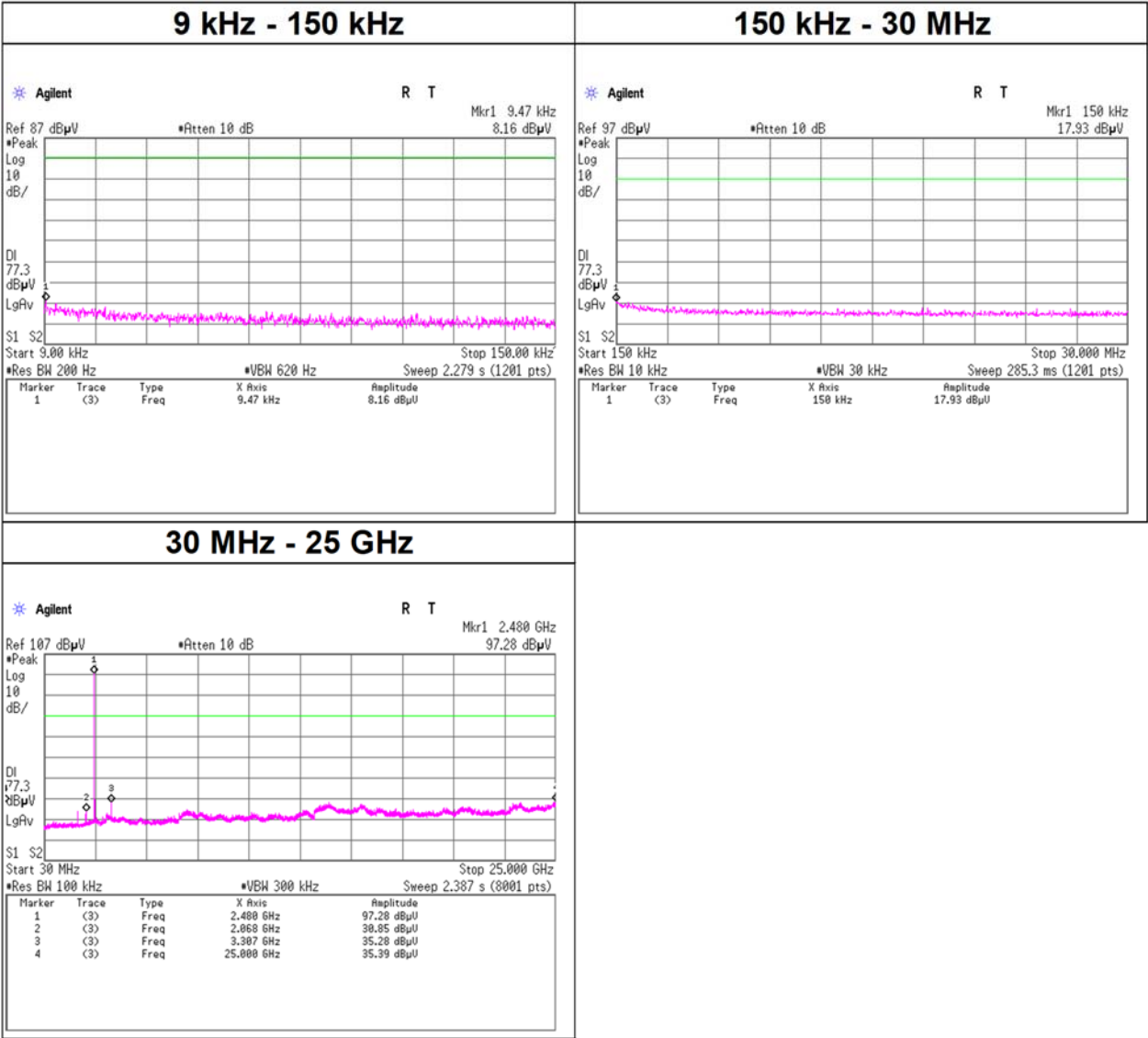
2441 MHz



Conducted Spurious Emission

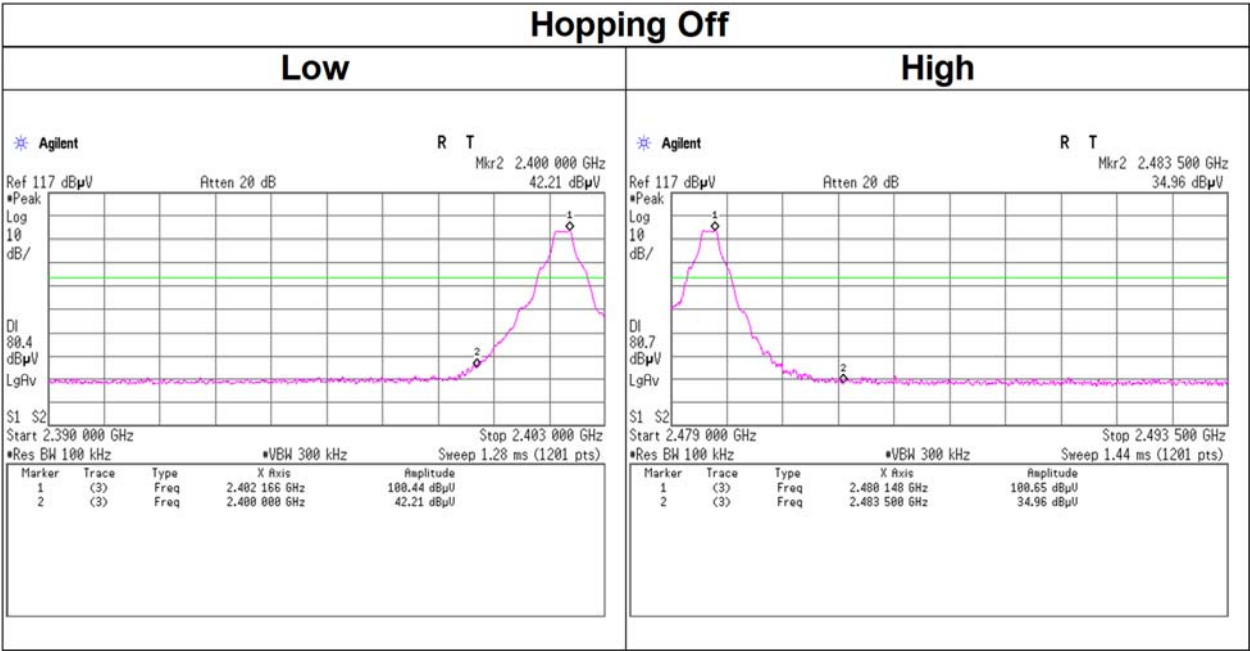
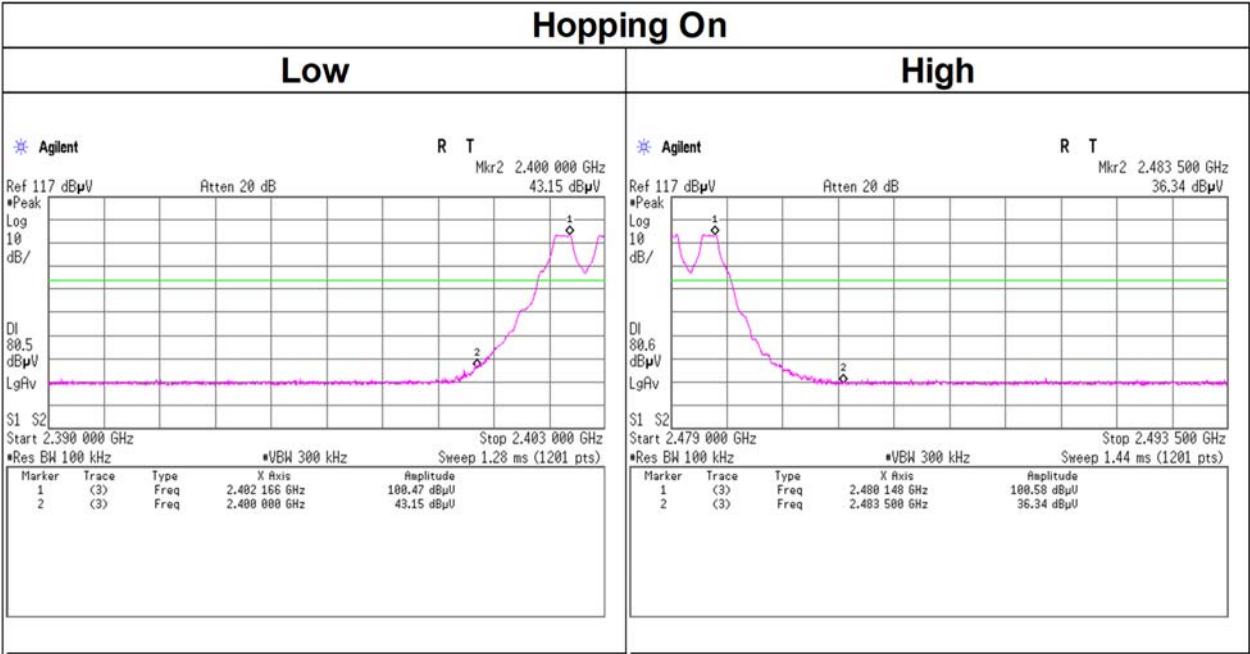
Mode	Tx, Hopping Off, 3DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba

2480 MHz



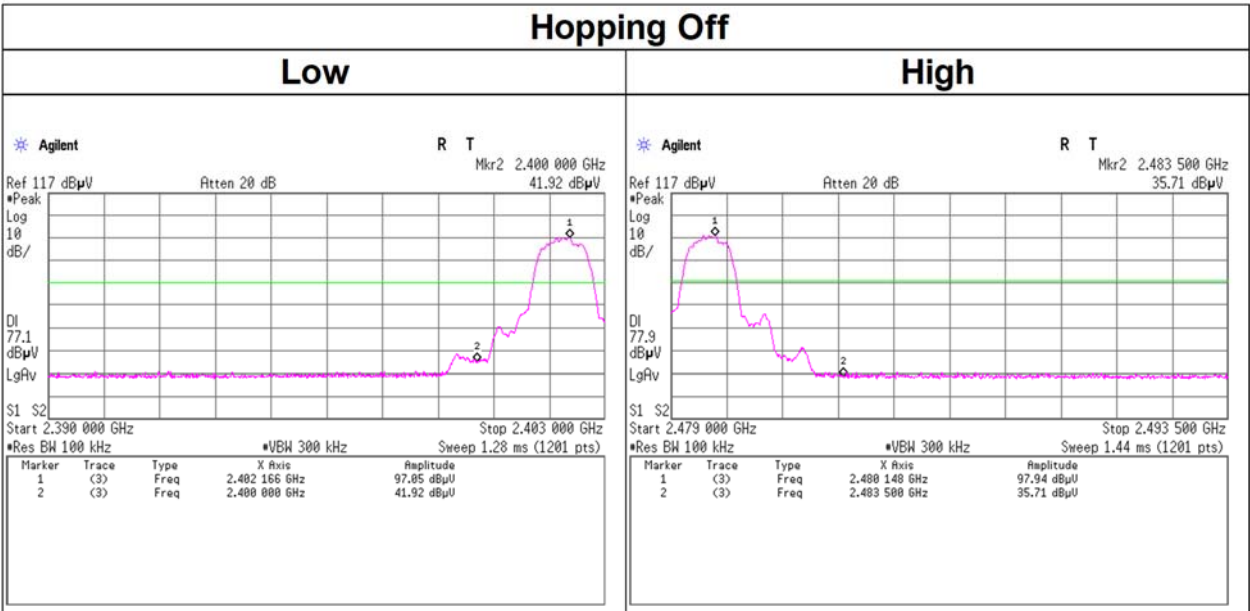
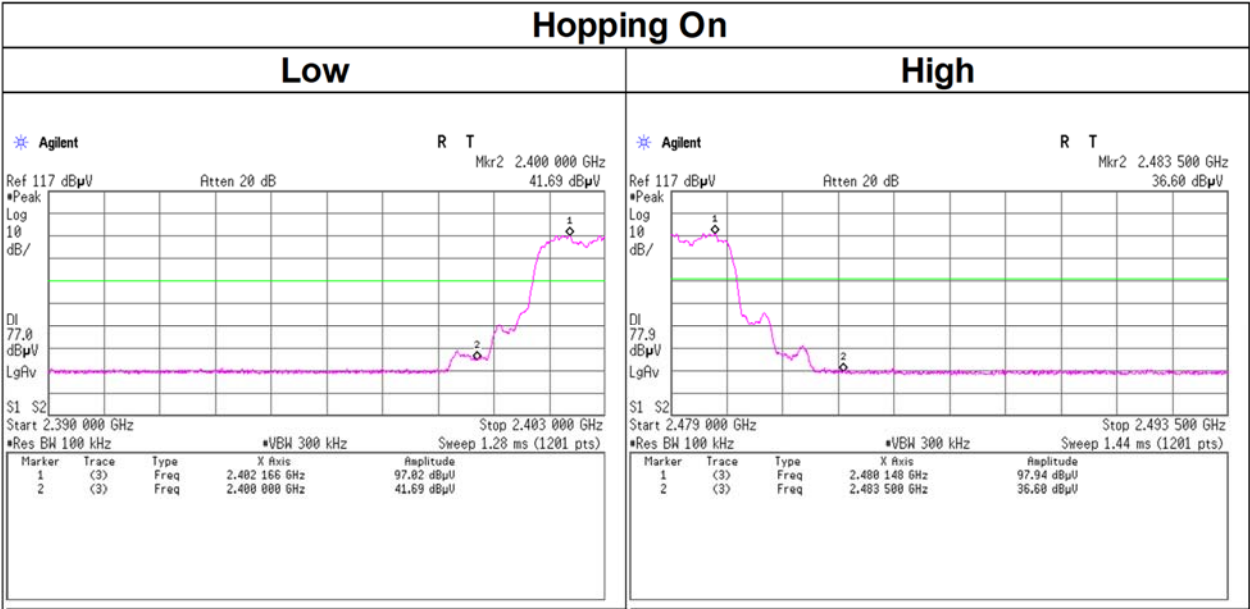
Conducted Emission Band Edge compliance

Mode	Tx DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba



Conducted Emission Band Edge compliance

Mode	Tx 3DH5			
Date	Test site	Temperature	Humidity	Engineer
December 10, 2025	SR5	20 deg. C	35 % RH	Yuta Shiba



APPENDIX 2: Test Instruments

Test Equipment

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	242067	Attenuator	Weinschel Corp.	54A-10	120523	2025/11/02	12
AT	145175	Coaxial Cable	Suhner	SUCOFLEX 102	31600/2	2025/12/01	12
AT	145111	Digital Tester	SANWA	PC500	7019232	2025/09/11	12
AT	146247	Power Meter	Keysight Technologies Inc	8990B	MY51000272	2025/05/20	12
AT	146310	Power sensor	Keysight Technologies Inc	N1923A	MY5326009	2025/05/20	12
AT	145801	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250152	2025/09/11	12
AT	259714	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2025/04/11	12
CE	199781	Attenuator	JFW	50HF-006N	-	2025/06/04	12
CE	144969	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS 4906	-/0901-270(RF Selector)	2025/04/05	12
CE	145793	Digital Hitester	HIOKI E. E. CORPORATION	3805-50	80997819	2025/05/23	12
CE	145540	LISN	Rohde & Schwarz	ENV216	100513	2026/02/06	12
CE	207277	Tape Measure	ASKUL	-	-	-	-
CE	259710	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2025/04/11	12
CE,RE	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	Ver 3.1.0612	-	-
CE,RE	213530	Test Receiver	Rohde & Schwarz	ESW44	103068	2025/02/12	12
RE	145136	Attenuator	Keysight Technologies Inc	8493C-010	74864	2025/10/16	12
RE	199783	Attenuator	JFW	50HF-006N	-	2025/06/04	12
RE	239787	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHBB 9124+BBA9106	01908	2025/08/14	12
RE	236711	Coaxial Cable	Hayashi-Repic co., Ltd.	KMS020B-GL140sE-KMS020B-7.0m	47256-03-02	2025/05/27	12
RE	236724	Coaxial Cable	Hayashi-Repic co., Ltd.	SF106(HUBER+SUHNER)/LMR400UF/GL310C/GL310C	2000430/47753-2/47256-01-04/47256-01-02	2025/05/12	12
RE	239644	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	2306S022	2025/08/27	12
RE	239650	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	2001218/2	2025/08/27	12
RE	243210	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-NFS13-1.0m	49190-01-02	2025/12/04	12
RE	243690	Coaxial Cable	Huber+Suhner	GL310C(Hayashi-Repic)/SF106/SF106	49373-01-02/2001168/2001161	2025/12/02	12
RE	264042	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-SFS13-0.5m	53292-01-02	2025/06/20	12
RE	235640	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4261	230313157	2025/05/22	12
RE	145301	Highpass Filter	Micro-Tronics	HPM50111	51	2025/10/16	12
RE	236584	Horn Antenna	AINFO Inc.	LB-8180-NF	2030013000112	2025/04/25	12
RE	236586	Horn Antenna	AINFO Inc.	LB-42-25-C2-KF	2020087000114	2025/04/25	12
RE	236687	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	788	2025/04/25	12
RE	145528	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	195	2025/03/18	12
RE	236967	Pre Amplifier	TSJ (Techno Science Japan)	MLA-9K01-L01	23050010	2025/06/04	12
RE	237719	Pre Amplifier	TSJ (Techno Science Japan)	MLA-18265-J03	23060017	2025/06/19	12
RE	237786	RF RELAY MATRIX with preamplifier	TSJ (Techno Science Japan)	RFM-E221261R	07796	2025/11/23	12
RE	236615	Semi-Anechoic Chamber	TDK	SWAC-02(NSA)	2	2025/05/12	12
RE	236617	Semi-Anechoic Chamber	TDK	SWAC-02(SVSWR)	2	2025/06/13	12
RE	207281	Tape Measure	ASKUL	-	-	-	-
RE	235268	Test Receiver	Rohde & Schwarz	ESW44	103212	2025/12/19	12
RE	235738	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2025/04/16	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