

RADIO TEST REPORT

Test Report No. 16029320H-A-R1

Customer	DENSO TEN Limited
Description of EUT	Car Navigation
Model Number of EUT	TN0051A
FCC ID	BABTN0051A
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	March 26, 2026
Remarks	Wireless LAN (2.4 GHz band) and Bluetooth Low Energy part(s)

Representative Test EngineerTomoya Sone
Engineer**Approved By**Ryota Yamanaka
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)	16029320H-A	December 19, 2025	-
1	16029320H-A-R1	March 26, 2026	SECTION 1 Correction of Telephone Number from +81-78-682-2159 to +81-50-1727-9598 SECTION 3.3: Update Specification for ISED SECTION 4.1 and APPENDIX 1 Addition of Radiated Spurious Emission test data for Simultaneous transmission mode (Tx 11ax-20(OFDm) 2412 MHz + 11ax-20(OFDm) 5220 MHz) SECTION 4.2 Correction of Cable information for other: No.18 and 19 Cable Shield from Unshielded to Shielded

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	DENSO TEN Limited
Address	2-28, Goshō-Dōri 1-Chōme, Hyōgo-ku, Kobe, 652-8510, Japan
Telephone Number	+81-50-1727-9598
Contact Person	Kaoru Abe

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	Car Navigation
Model Number	TN0051A
Serial Number	Refer to SECTION 4.2
Condition	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	October 6, 2025
Test Date	October 14, 2025 to March 25, 2026

2.2 Product Description

General Specification

Rating	DC 12 V
Operating temperature	-30 deg. C to 65 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.

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 ^{a)}	1.01 dBi	

Bluetooth (BR/EDR/Low Energy)

Equipment Type	Transceiver	
Frequency of Operation	2402 MHz to 2480 MHz	
Type of Modulation	FHSS (GFSK, $\pi/4$ DQPSK, 8 DPSK) GFSK	
Antenna Gain ^{a)}	0.92 dBi	

WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20/11n-40/11ac-40/11ax-40/11ac-80/11ax-80)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band	5180 MHz to 5240 MHz 5745 MHz to 5805 MHz
	40 MHz Band	5190 MHz to 5230 MHz 5755 MHz to 5795 MHz
	80 MHz Band	5210 MHz 5775 MHz
Type of Modulation	OFDM	
	OFDMA (IEEE802.11ax Only)	20 MHz: 26/52/106/242-tone RU
		40 MHz: 26/52/106/242/484-tone RU 80 MHz: 26/52/106/242/484/996-tone RU
Antenna Type	Inverted F Antenna	
Antenna Gain: G _{ANT}	Antenna 1: 1.57 dBi	
	Antenna 2: 2.14 dBi	
Directional Antenna Gain *1)	4.87 dBi	

*1) Directional antenna gain = $10 \log \left(\left(10^{\frac{Gain(Ant1)}{20}} + 10^{\frac{Gain(Ant2 \text{ or } Ant3)}{20}} \right)^2 / 2 \right)$

FM

Equipment Type	Receiver	
Frequency of Operation	AM: 530 kHz to 1710 kHz FM: Band II: 87.75 MHz to 107.9 MHz	
Type of Modulation	AM FM	
Antenna Connector Type	HFC IV	
Impedance	75 ohm	

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
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	N/A	*1)
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) The test is not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.			
*2) 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 Module regardless of input voltage.
Therefore, this EUT complies with the requirement.

FCC Part 15.203/212 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 $k = 2$.

Radiated emission

Measurement distance	Frequency range		Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz		dB	3.3
10 m			dB	3.1
3 m	30 MHz to 200 MHz	Horizontal	dB	5.0
		Vertical	dB	5.0
	200 MHz to 1000 MHz	Horizontal	dB	5.2
		Vertical	dB	6.2
10 m	30 MHz to 200 MHz	Horizontal	dB	5.5
		Vertical	dB	5.4
	200 MHz to 1000 MHz	Horizontal	dB	5.5
		Vertical	dB	5.5
3 m	1 GHz to 6 GHz		dB	5.1
	6 GHz to 18 GHz		dB	5.4
1 m	10 GHz to 18 GHz		dB	5.4
	18 GHz to 26.5 GHz		dB	5.3
	26.5 GHz to 40 GHz		dB	4.8
0.5 m	26.5 GHz to 40 GHz		dB	5.0

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 < 8 GHz)	dB	1.43
Power measurement (Call box < 6 GHz)	dB	1.89
Frequency readout (Frequency counter)	ppm	0.67
Frequency readout (Spectrum analyzer frequency readout function)	ppm	2.13
Temperature (constant temperature bath)	deg. C	0.69
Humidity (constant temperature bath)	%RH	2.98
Modulation characteristics	%	6.93
Frequency for mobile	ppm	0.08
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	-	-

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*
IEEE 802.11b (11b)	5.5 Mbps, PN9
IEEE 802.11g (11g)	24 Mbps, PN9
IEEE 802.11n SISO 20 MHz BW (11n-20)	MCS 4, PN9
IEEE 802.11ax (OFDM) SISO 20 MHz BW (11ax-20)	MCS 6, PN9
*The worst condition was determined based on the test result of Maximum Peak Output Power (Mid Channel)	
*Power of the EUT was set by the software as follows;	
Power Setting:	CCK: 11 OFDM: 5 OFDMA: -5 (26-tone RU), -2 (52tone-RU), 1 (106tone-RU), 4.5 (242tone-RU)
Software:	Qualcomm Radio Control Toolkit Version: 4.0.209.0 (Date: 2022.08.17, 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.	
Test operating mode was determined as follows according to "Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals - " of TCB Council Workshop October 2009 and also was judged the necessity of 802.11ac/ax mode by the pre-test.	

*The Details of Operating Mode(s)

Test Item	Operating Mode	Tested Antenna	Tested Frequency
Radiated Spurious Emission (Below 1 GHz) Conducted Spurious Emission	Tx 11ax-20 *1)	Antenna 2	2412 MHz
Radiated Spurious Emission (Above 1 GHz), 6 dB Bandwidth, Maximum Peak Output Power, Power Density, 99% Occupied Bandwidth	Tx 11b Tx 11g Tx 11n-20 Tx 11ax-20	Antenna 2	2412 MHz 2437 MHz 2462 MHz

*1) The mode was tested as a representative, because it had the highest power at antenna terminal test.

[BT LE]

Mode	Remarks*
Bluetooth Low Energy (BT LE)	Uncoded 1M-PHY (1M), Maximum Packet Size, PRBS9
Bluetooth Low Energy (BT LE)	Uncoded 2M-PHY (2M), Maximum Packet Size, PRBS9
*Power of the EUT was set by the software as follows; Power Setting: 0 dBm Software: Qualcomm Radio Controll Toolkit Version: 4.0.209.0 (Date: 2022.08.17, 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)

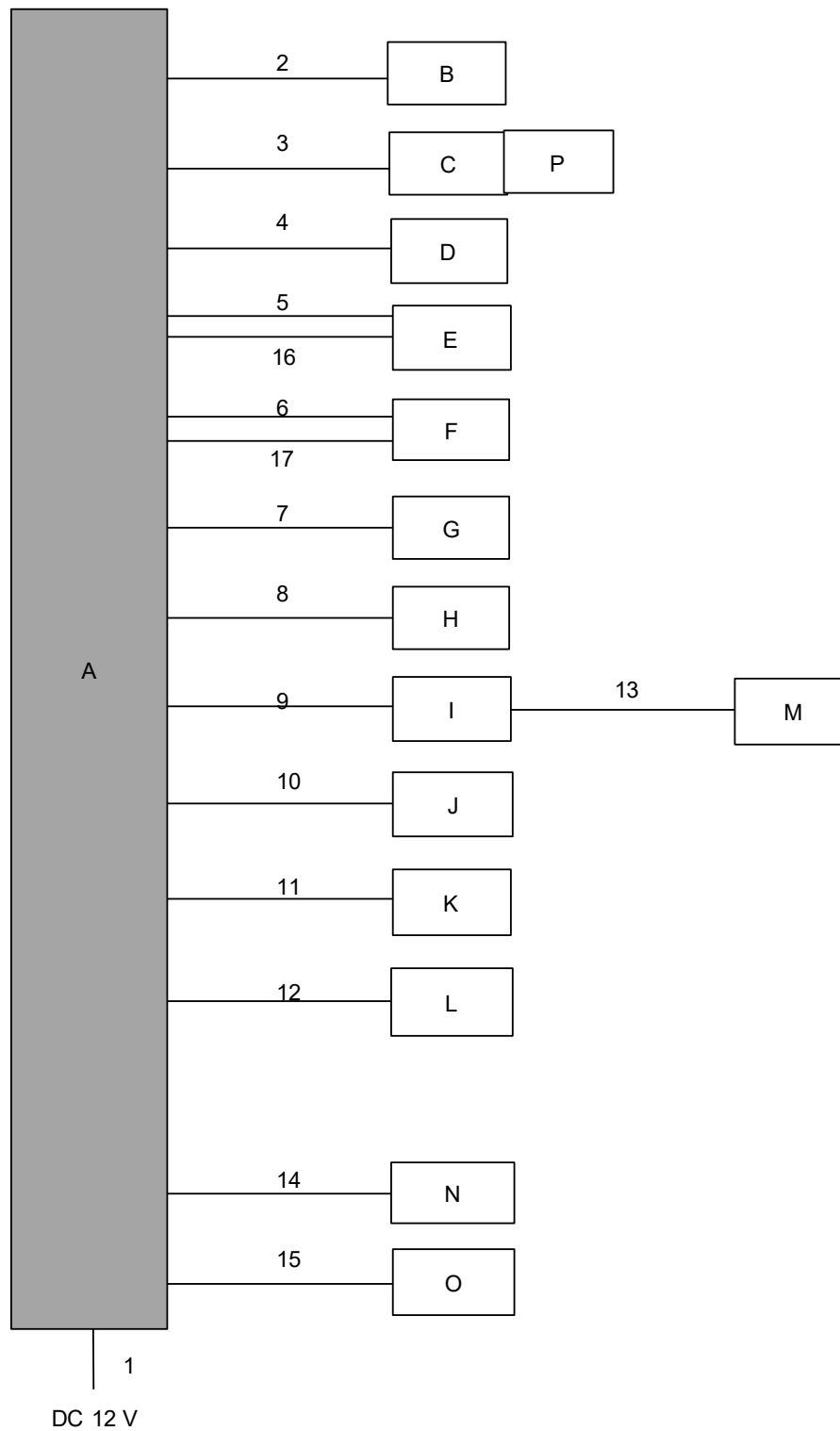
Test Item	Operating Mode	Tested Antenna	Tested Frequency
Radiated Spurious Emission (Below 1 GHz), Conducted Spurious Emission	Tx BT LE 2M *1)	Antenna 1	2402 MHz
Radiated Spurious Emission (Above 1 GHz), Maximum Peak Output Power, Power Density, 6 dB Bandwidth, 99% Occupied Bandwidth	Tx BT LE 1M Tx BT LE 2M	Antenna 1	2402 MHz 2440 MHz 2480 MHz
*1) 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.			

Simultaneous transmission

Test Item	Mode *1)	Tested Antenna
Radiated Spurious Emission	Tx BT LE 2M 2402 MHz + Tx 11ax-20 5220 MHz	Bluetooth (Antenna 1) + 11ax (Antenna 1) *1)
	Tx 11ax-20(OFDM) 2412 MHz + 11ax-20(OFDM) 5220 MHz	11ax (Antenna 2) + 11ax (Antenna 2) *1)
*1) The test was performed on the mode as a representative, because it had the highest power (11a mode /Antenna 1 or 2) of 5 GHz band at antenna terminal test.		

4.2 Configuration and Peripherals

For Radiated Spurious Emission test



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

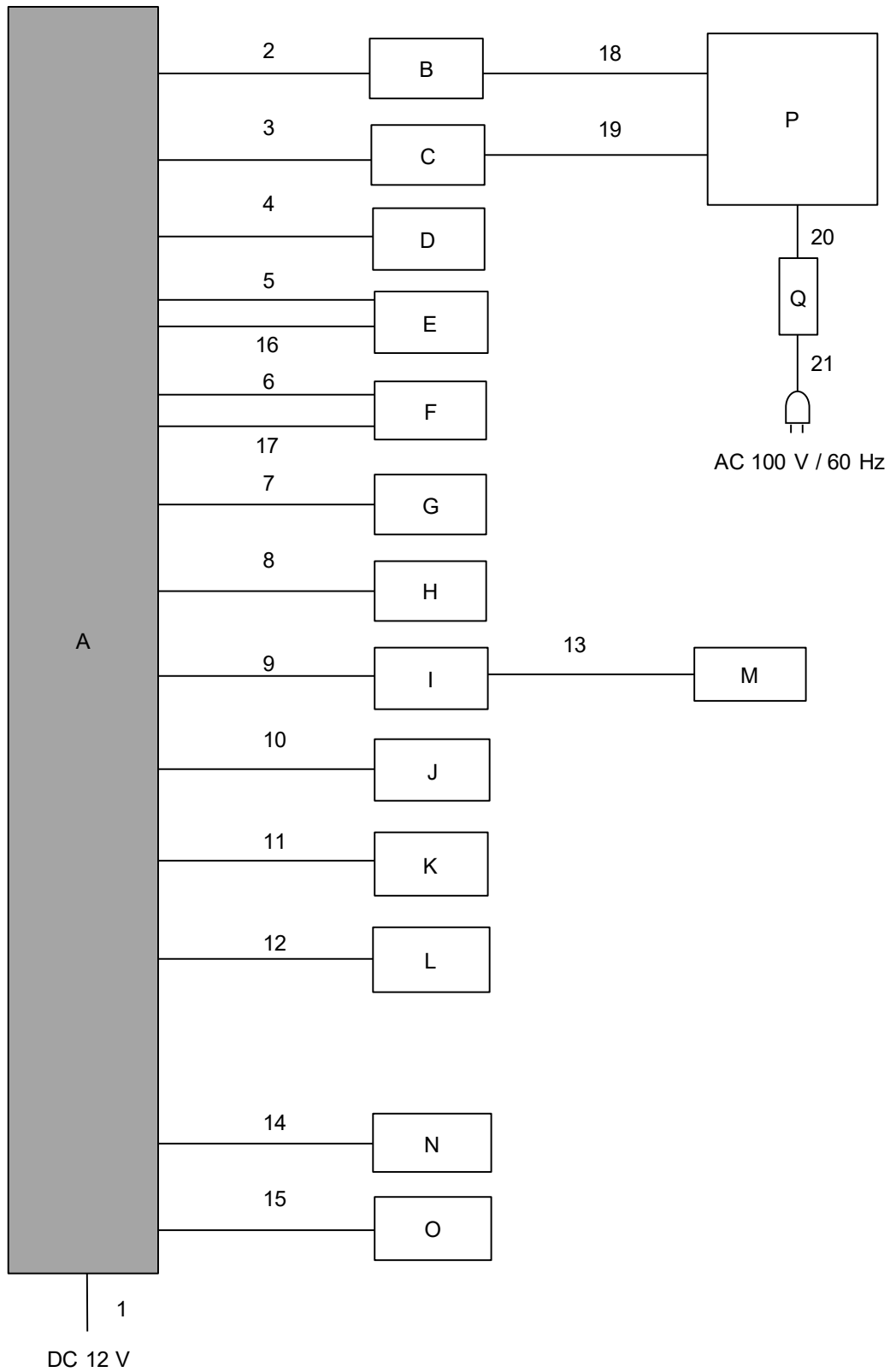
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Car Navigation	TN0051A	MY800026	DENSO TEN Limited	EUT
B	Jig Board	-	-	-	-
C	USB Adapter	DEP37-10169	No.31	KP	-
D	Switch	-	-	-	-
E	Meter	83800-4AL70	457410-0021	DENSO	-
F	DCM	892K0-310DD	No.6	LGE	-
G	FM/AM Antenna	DQV32-10065	No.14	MinebeaMitsumi	-
H	Speaker Dummy	-	-	-	-
I	I/F Conversion Box	867B1-42010_3986	No.20	TOKAI RIKA	-
J	EXPANSION Body ECU	892K0-310DD6	No.5	Sumitomo Electric Industries, Ltd	-
K	Remote SW Module	84010-33170	No.4	TOKAI RIKA	-
L	Steering SW	84250-42780	N0.23	TOKAI RIKA	-
M	BCM Camera	8679B-42010	No.5	KYOCERA	-
N	MIC	86730-42130	No.86	KP	-
O	MIC	86730-42130	No.87	KP	-
P	USB Memory	-	-	Sony corporation	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	4.0	Unshielded	Unshielded	-
2	Flat Cable	0.1	Unshielded	Unshielded	-
3	Signal Cable	2.5	Shielded	Shielded	-
4	Signal Cable	2.5	Unshielded	Unshielded	-
5	Signal Cable	2.5	Unshielded	Unshielded	-
6	Signal Cable	2.5	Unshielded	Unshielded	-
7	FM/AM Antenna Cable	6.0	Shielded	Unshielded	-
8	Speaker Cable	2.5	Unshielded	Unshielded	-
9	Signal Cable	2.5	Shielded	Shielded	-
10	Signal Cable	2.5	Unshielded	Unshielded	-
11	Signal Cable	2.5	Unshielded	Unshielded	-
12	Signal Cable	2.5	Unshielded	Unshielded	-
13	Camera Cable	1.5	Shielded	Shielded	-
14	MIC Cable	2.5	Unshielded	Unshielded	-
15	MIC Cable	2.5	Unshielded	Unshielded	-
16	Signal Cable	2.5	Shielded	Shielded	-
17	Signal Cable	2.5	Shielded	Unshielded	-

For other



* 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	Car Navigation	TN0051A	MY800025	DENSO TEN Limited	EUT
B	Jig Board	-	-	-	-
C	USB Adapter	DEP37-10176	No.45	KP	-
D	Switch	-	-	-	-
E	Meter	83800-4AL70	457410-0021	DENSO	-
F	DCM	892K0-310D6	No.5	LGE	-
G	FM/AM Antenna	DQV32-10030	No.15	MinebeaMitsumi	-
H	Speaker Dummy	-	-	-	-
I	I/F Conversion Box	867B1-42010_3986	No.10	TOKAI RIKA	-
J	EXPANSION Body ECU	892K0-310DD6	No.5	Sumitomo Electric Industries, Ltd	-
K	Remote SW Module	84010-33170	No.1	TOKAI RIKA	-
L	Steering SW	84250-42780	No.23	TOKAI RIKA	-
M	BGM Camera	8679B-42010	No.5	KYOCERA	-
N	MIC	86730-42130	No.86	KP	-
O	MIC	86730-42130	No.87	KP	-
P	Laptop PC	PR63PBAA337AD7X	6F053913H	TOSHIBA	-
Q	AC Adapter	PA51770-1ACA	FX10800NSKACC	TOSHIBA	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	4.0	Unshielded	Unshielded	-
2	Flat Cable	0.1	Unshielded	Unshielded	-
3	Signal Cable	2.5	Shielded	Shielded	-
4	Signal Cable	2.5	Unshielded	Unshielded	-
5	Signal Cable	2.5	Unshielded	Unshielded	-
6	Signal Cable	2.5	Unshielded	Unshielded	-
7	FM/AM Antenna Cable	6.0	Shielded	Unshielded	-
8	Speaker Cable	3.0	Unshielded	Unshielded	-
9	Signal Cable	1.0	Shielded	Shielded	-
10	Signal Cable	2.5	Unshielded	Unshielded	-
11	Signal Cable	2.5	Unshielded	Unshielded	-
12	Signal Cable	2.5	Unshielded	Unshielded	-
13	Camera Cable	1.5	Shielded	Shielded	-
14	MIC Cable	2.5	Unshielded	Unshielded	-
15	MIC Cable	2.5	Unshielded	Unshielded	-
16	Signal Cable	2.5	Shielded	Shielded	-
17	Signal Cable	2.5	Shielded	Unshielded	-
18	USB Cable	2.5	Shielded	Shielded	-
19	USB Cable	2.5	Shielded	Shielded	-
20	DC Cable	1.7	Unshielded	Unshielded	-
21	AC Cable	0.8	Unshielded	Unshielded	-

SECTION 5: Radiated Spurious Emission

Test Procedure

[For below 1 GHz]

EUT was placed on the platform of nominal size, 0.5 m by 1.0 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

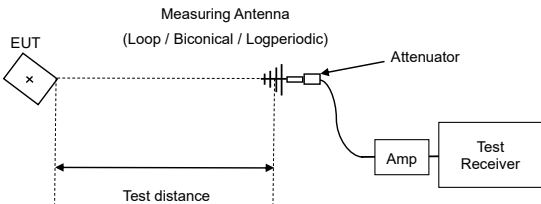
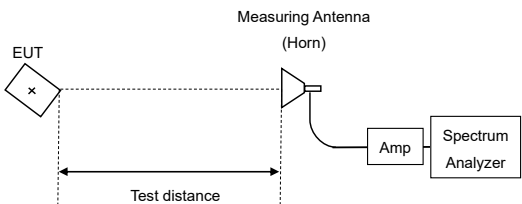
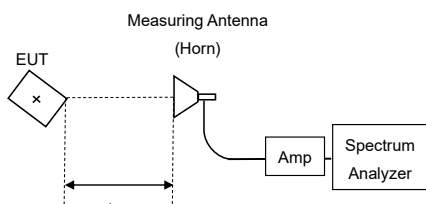
In any 100 kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired 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 1: 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 test was made on EUT at the normal use position.

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 6: 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, 5 MHz, 9 MHz, 20 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	9.1 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

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 14, 2025	MR8	25 deg.C	58 %RH	Takumi Nishida

11b, SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	13205.1	7.724	> 0.5000
2437	13199.4	8.118	> 0.5000
2462	13195.2	7.861	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 14, 2025	MR8	25 deg.C	58 %RH	Takumi Nishida

11g, SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	17126.1	16.507	> 0.5000
2437	17136.1	16.499	> 0.5000
2462	17151.3	16.499	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 14, 2025	MR8	25 deg.C	58 %RH	Takumi Nishida

11n-20, SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	18271.9	17.749	> 0.5000
2437	18245.7	17.744	> 0.5000
2462	18329.2	17.747	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

11ax-20(OFDM), SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	19291.6	19.135	> 0.5000
2437	19271.4	19.131	> 0.5000
2462	19308.3	19.098	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 26-tone RU, SISO

Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	0	18180.6	2.071	> 0.5000
2437	4	17102.2	2.629	> 0.5000
2462	8	18368.4	2.081	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 52-tone RU, SISO

Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	37	18139.3	4.094	> 0.5000
2437	38	17127.1	4.156	> 0.5000
2462	40	18111.1	4.105	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 106-tone RU, SISO

Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	53	18257.2	8.363	> 0.5000
2437	53	18222.7	8.372	> 0.5000
2462	54	18259.1	8.366	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 242-tone RU, SISO

Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2412	61	19034.5	19.118	> 0.5000
2437	61	19045.0	19.129	> 0.5000
2462	61	19042.3	19.111	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

BT LE 1M-PHY, SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2402	1020.2	0.665	> 0.5000
2440	1026.0	0.667	> 0.5000
2480	1025.6	0.667	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

Mode	Tx			
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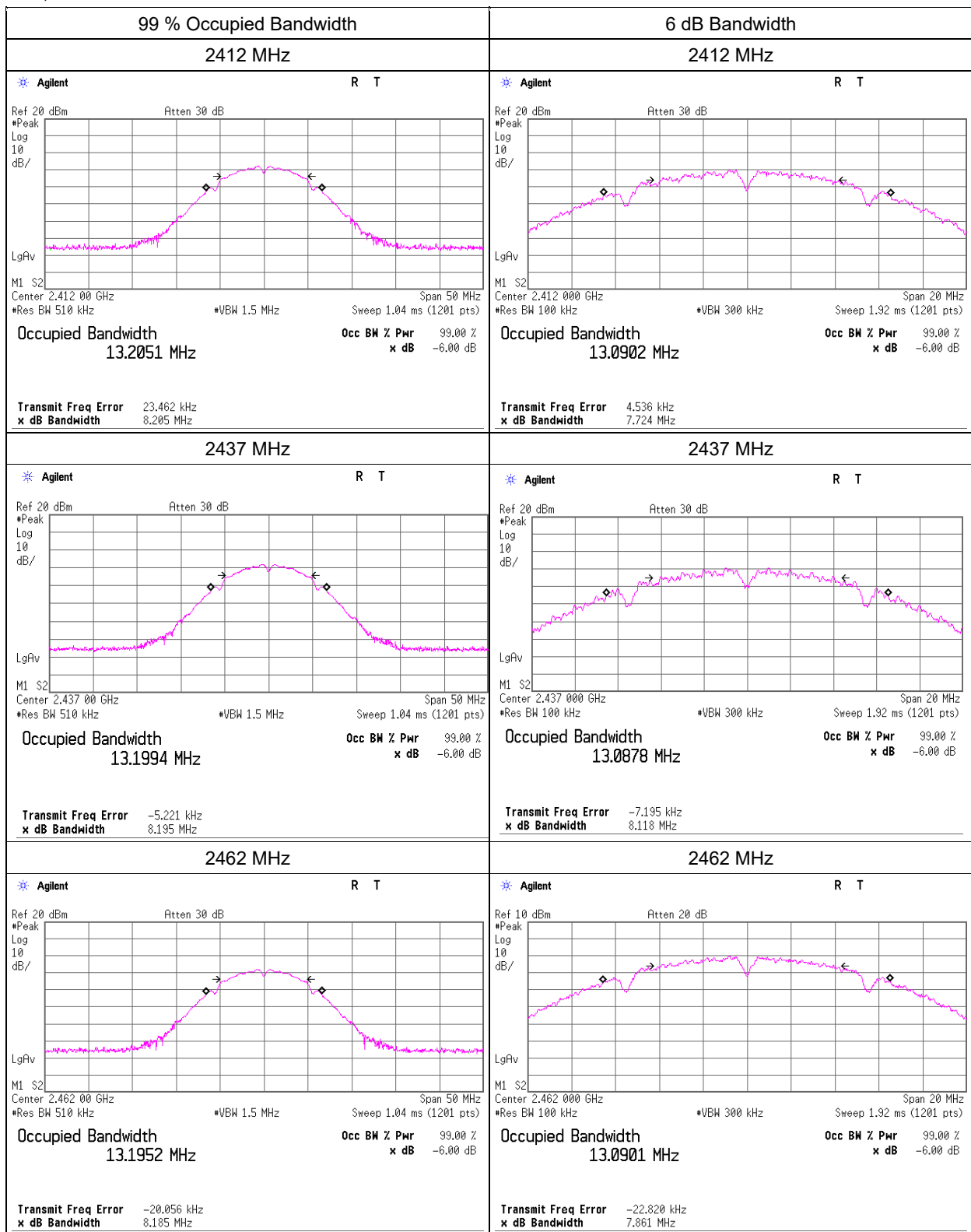
Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

BT LE 2M-PHY, SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2402	1998.1	1.176	> 0.5000
2440	1996.4	1.150	> 0.5000
2480	1998.5	1.163	> 0.5000

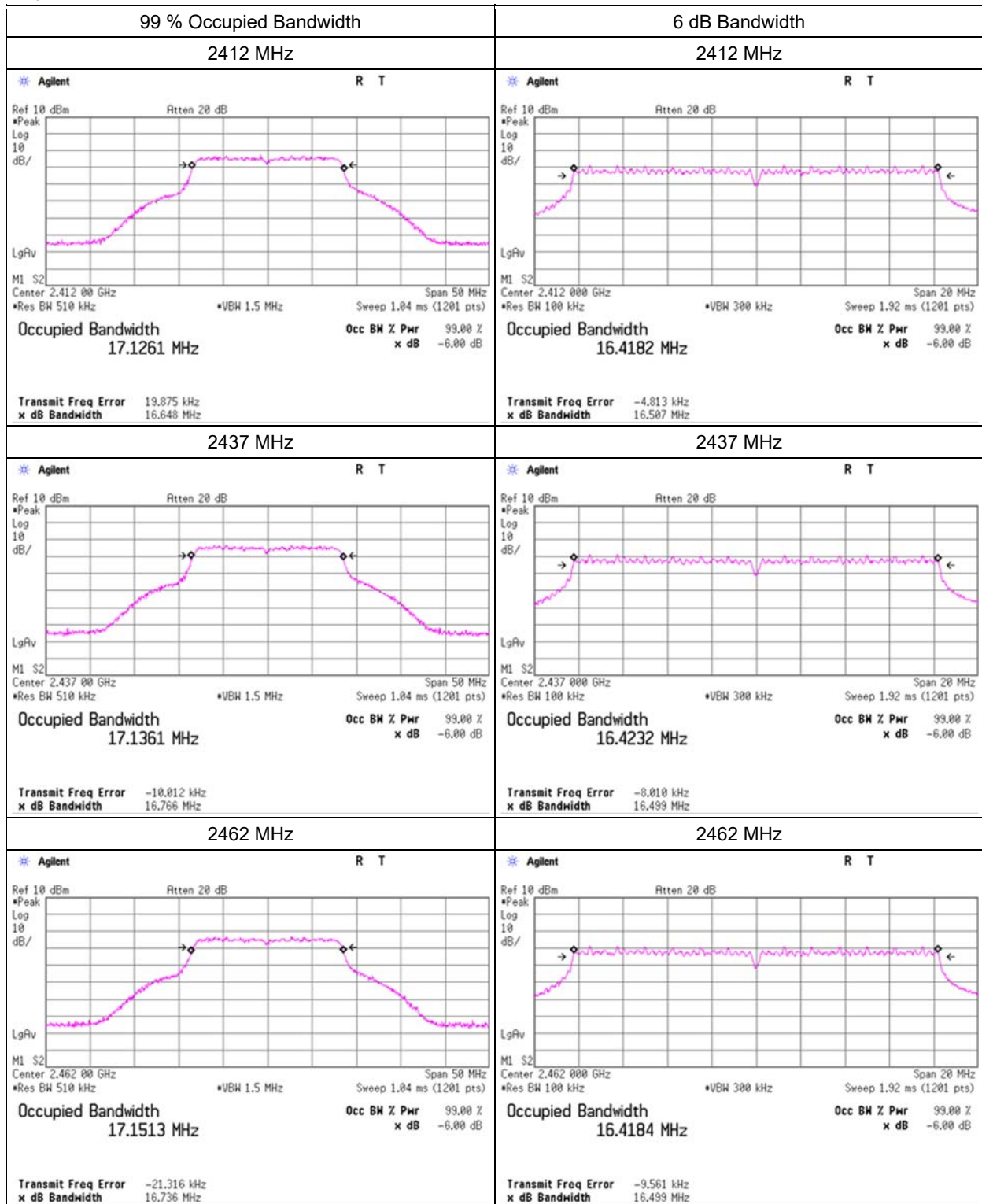
99 % Occupied Bandwidth and 6 dB Bandwidth

11b, SISO



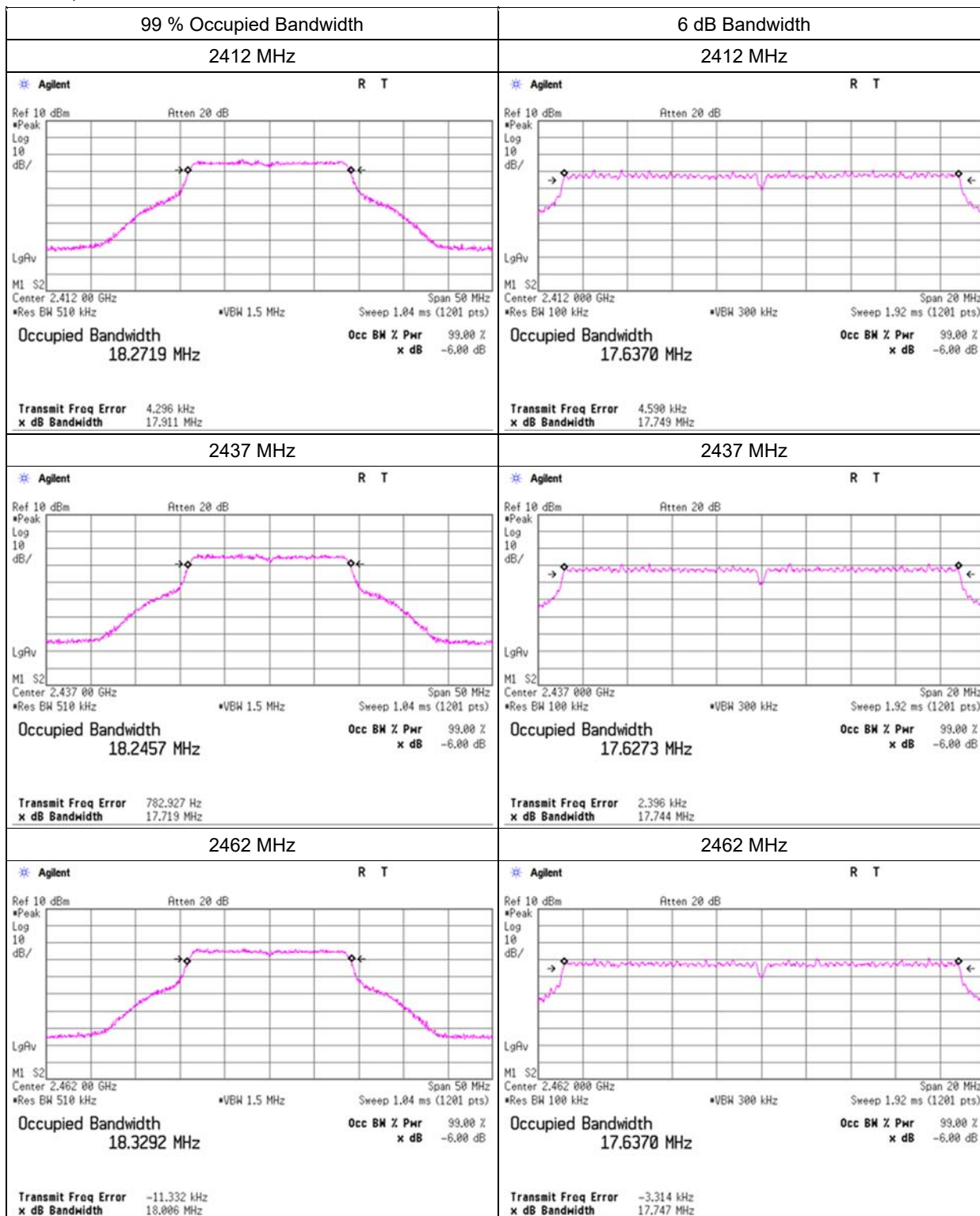
99 % Occupied Bandwidth and 6 dB Bandwidth

11g, SISO



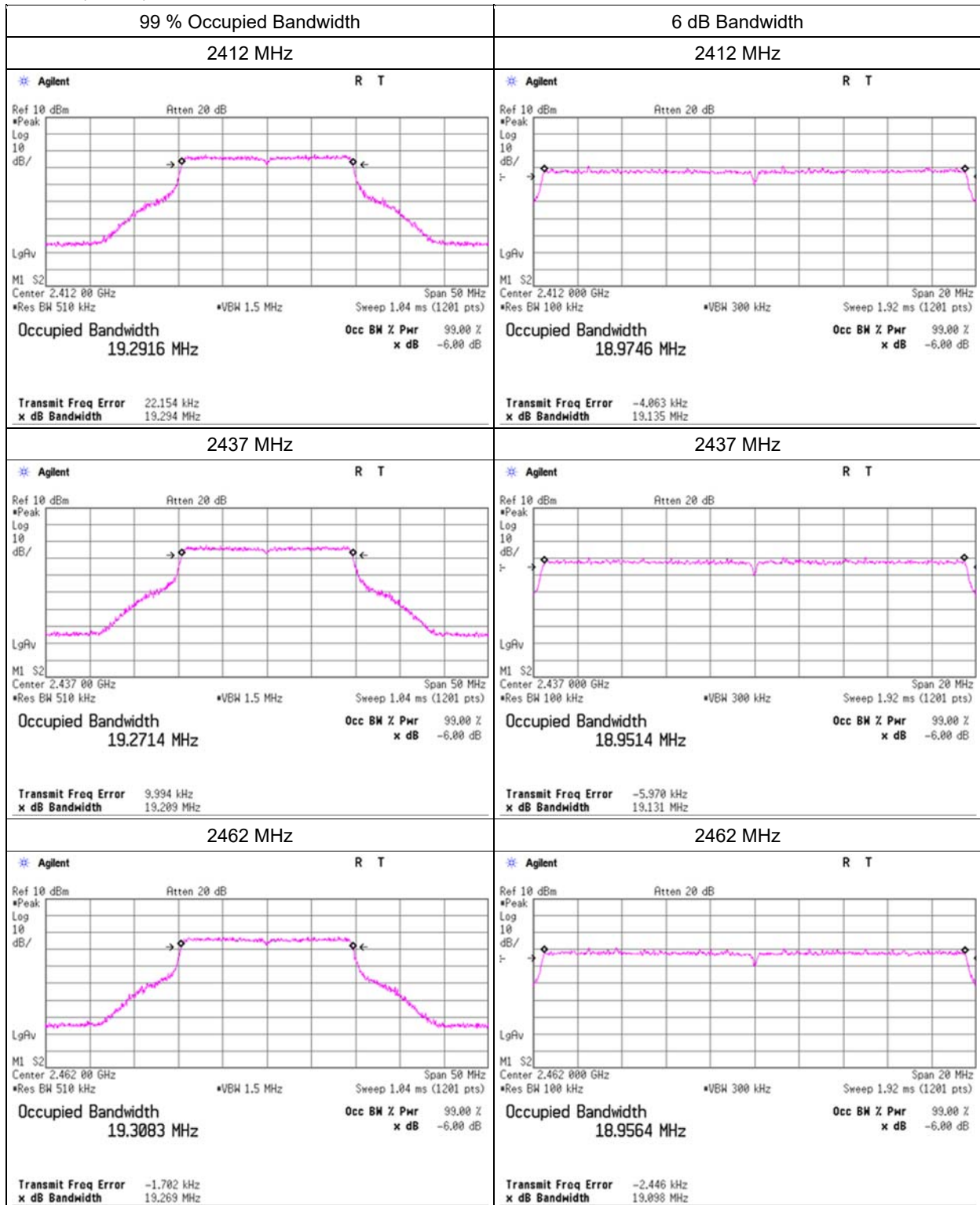
99 % Occupied Bandwidth and 6 dB Bandwidth

11n-20, SISO



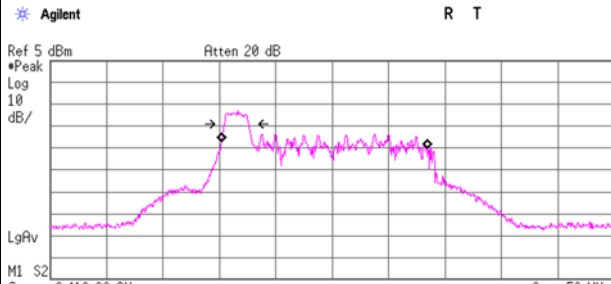
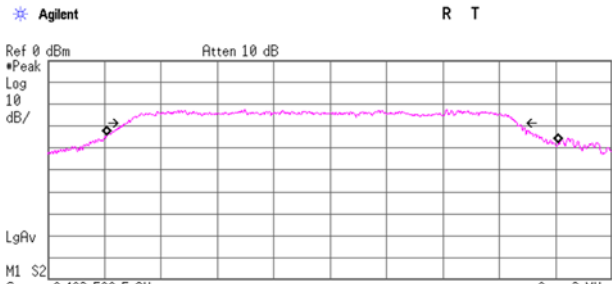
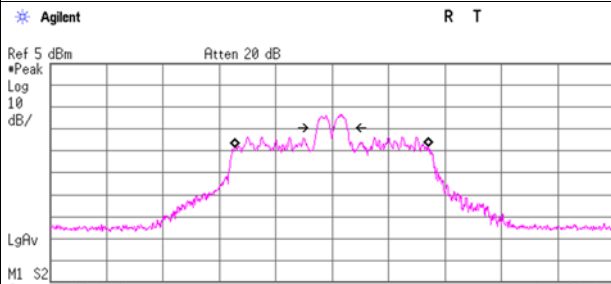
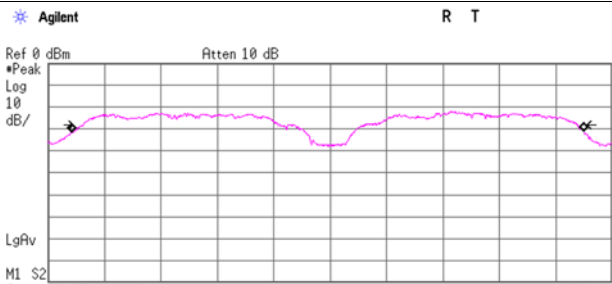
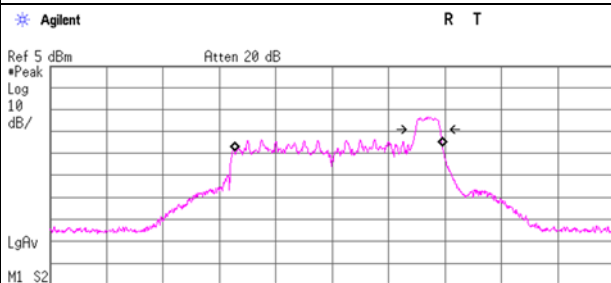
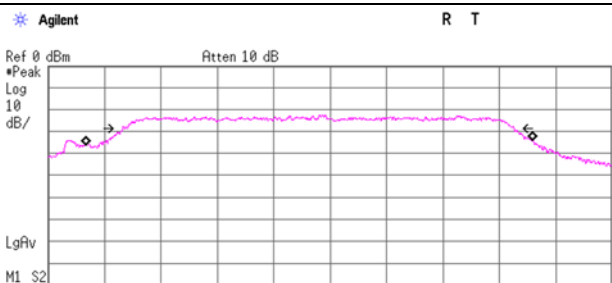
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDM), SISO



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA), 26-tone RU, SISO

99 % Occupied Bandwidth	6 dB Bandwidth
2412 MHz	2412 MHz
RU Index 0	RU Index 0
 Occupied Bandwidth 18.1806 MHz Transmit Freq Error -693.807 kHz x dB Bandwidth 2.184 MHz	 Occupied Bandwidth 2.4017 MHz Transmit Freq Error 13.156 kHz x dB Bandwidth 2.071 MHz
2437 MHz	2437 MHz
RU Index 4	RU Index 4
 Occupied Bandwidth 17.1022 MHz Transmit Freq Error -25.981 kHz x dB Bandwidth 2.671 MHz	 Occupied Bandwidth 2.7218 MHz Transmit Freq Error -11.217 kHz x dB Bandwidth 2.629 MHz
2462 MHz	2462 MHz
RU Index 8	RU Index 8
 Occupied Bandwidth 18.3684 MHz Transmit Freq Error 566.157 kHz x dB Bandwidth 2.170 MHz	 Occupied Bandwidth 2.3725 MHz Transmit Freq Error -112.519 kHz x dB Bandwidth 2.081 MHz

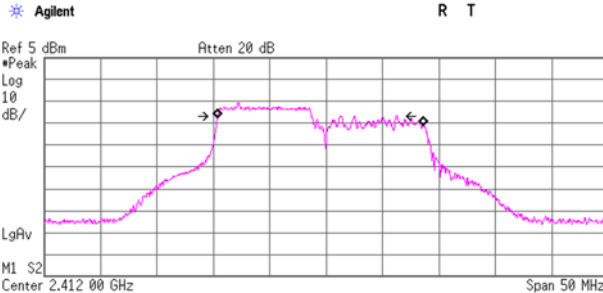
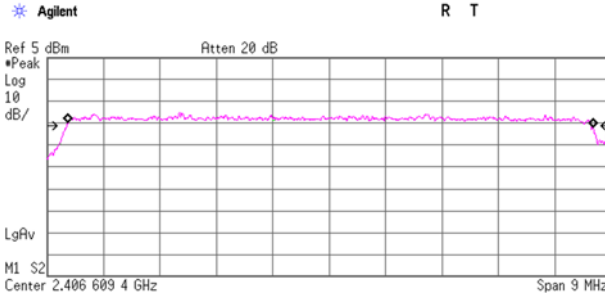
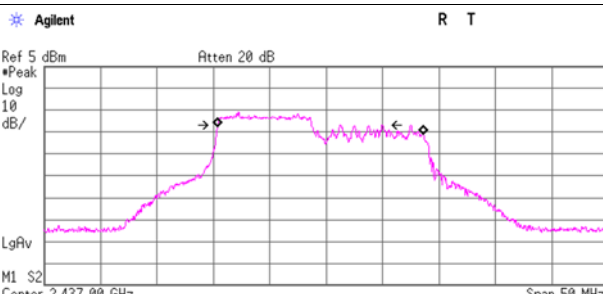
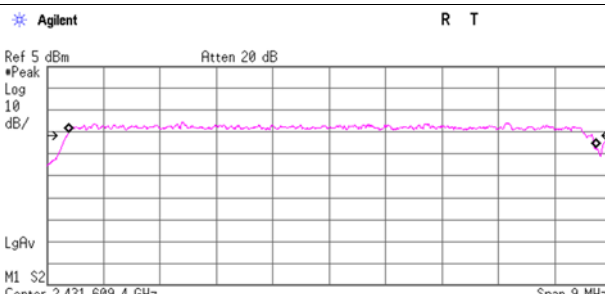
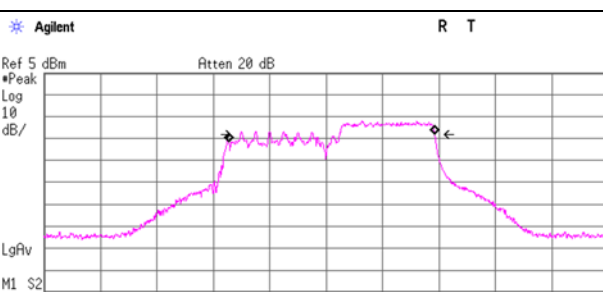
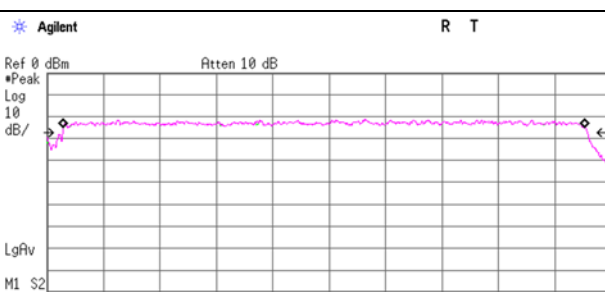
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA), 52-tone RU, SISO

99 % Occupied Bandwidth	6 dB Bandwidth
2412 MHz	2412 MHz
RU Index 37	RU Index 37
Agilent R T Ref 5 dBm #Peak Log 10 dB/ LgRv Atten 20 dB M1 S2 Center 2.412 00 GHz #Res BW 220 kHz Span 50 MHz #VBW 680 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 18.1393 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -553.280 kHz x dB Bandwidth 4.185 MHz	Agilent R T Ref 0 dBm #Peak Log 10 dB/ LgRv Atten 10 dB M1 S2 Center 2.404 578 GHz #Res BW 100 kHz Span 5 MHz #VBW 300 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 4.5351 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 153.490 kHz x dB Bandwidth 4.094 MHz
RU Index 38	RU Index 38
Agilent R T Ref 5 dBm #Peak Log 10 dB/ LgRv Atten 20 dB M1 S2 Center 2.437 00 GHz #Res BW 220 kHz Span 50 MHz #VBW 680 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 17.1271 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 25.352 kHz x dB Bandwidth 4.211 MHz	Agilent R T Ref 0 dBm #Peak Log 10 dB/ LgRv Atten 10 dB M1 S2 Center 2.433 719 GHz #Res BW 100 kHz Span 5 MHz #VBW 300 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 4.5639 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 28.667 kHz x dB Bandwidth 4.156 MHz
RU Index 40	RU Index 40
Agilent R T Ref 5 dBm #Peak Log 10 dB/ LgRv Atten 20 dB M1 S2 Center 2.462 00 GHz #Res BW 220 kHz Span 50 MHz #VBW 680 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 18.1111 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 618.399 kHz x dB Bandwidth 4.199 MHz	Agilent R T Ref 0 dBm #Peak Log 10 dB/ LgRv Atten 10 dB M1 S2 Center 2.469 500 GHz #Res BW 100 kHz Span 5 MHz #VBW 300 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 4.3142 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -120.893 kHz x dB Bandwidth 4.105 MHz

99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA), 106-tone RU, SISO

99 % Occupied Bandwidth	6 dB Bandwidth
2412 MHz	2412 MHz
RU Index 53	RU Index 53
 Occupied Bandwidth 18.2571 MHz Transmit Freq Error x dB Bandwidth -484.232 kHz 15.493 MHz	 Occupied Bandwidth 8.3684 MHz Transmit Freq Error x dB Bandwidth 22.850 kHz 8.363 MHz
2437 MHz	2437 MHz
RU Index 53	RU Index 53
 Occupied Bandwidth 18.2227 MHz Transmit Freq Error x dB Bandwidth -498.949 kHz 14.590 MHz	 Occupied Bandwidth 8.4098 MHz Transmit Freq Error x dB Bandwidth 47.533 kHz 8.372 MHz
2462 MHz	2462 MHz
RU Index 54	RU Index 54
 Occupied Bandwidth 18.2591 MHz Transmit Freq Error x dB Bandwidth 487.750 kHz 17.200 MHz	 Occupied Bandwidth 8.3200 MHz Transmit Freq Error x dB Bandwidth -76.269 kHz 8.366 MHz

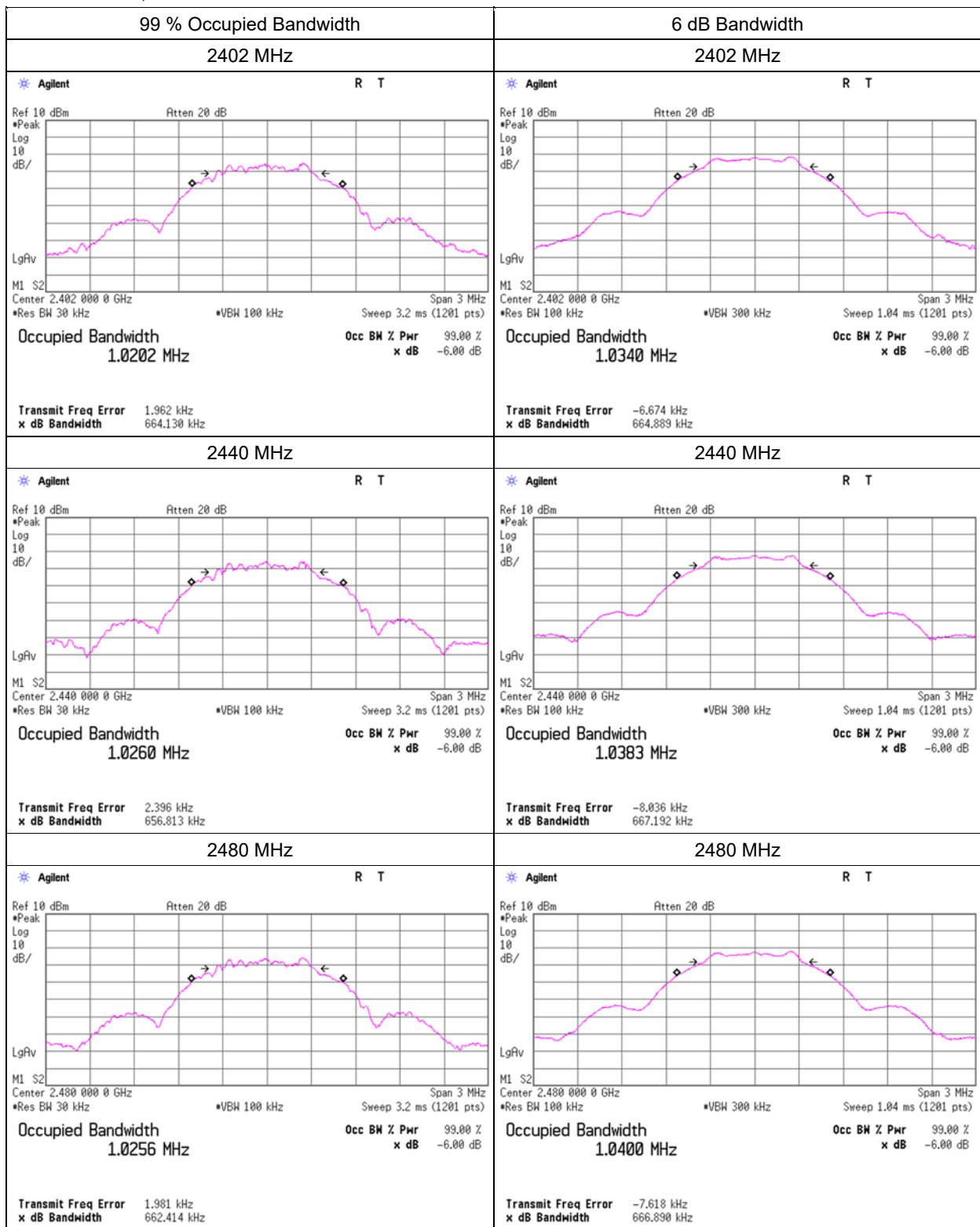
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA), 242-tone RU, SISO

99 % Occupied Bandwidth	6 dB Bandwidth
2412 MHz	2412 MHz
RU Index 61	RU Index 61
Agilent R T Ref 5 dBm *Peak Log 10 dB/ LgAv Atten 20 dB M1 S2 Center 2.412 00 GHz *Res BW 220 kHz Span 50 MHz *VBW 680 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 19.0345 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -5.027 kHz x dB Bandwidth 19.173 MHz	Agilent R T Ref 5 dBm *Peak Log 10 dB/ LgAv Atten 20 dB M1 S2 Center 2.412 000 GHz *Res BW 100 kHz Span 20 MHz *VBW 300 kHz Sweep 1.92 ms (1201 pts) Occupied Bandwidth 18.9464 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -3.387 kHz x dB Bandwidth 19.118 MHz
2437 MHz	2437 MHz
RU Index 61	RU Index 61
Agilent R T Ref 5 dBm *Peak Log 10 dB/ LgAv Atten 20 dB M1 S2 Center 2.437 00 GHz *Res BW 220 kHz Span 50 MHz *VBW 680 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 19.0450 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -10.137 kHz x dB Bandwidth 19.231 MHz	Agilent R T Ref 5 dBm *Peak Log 10 dB/ LgAv Atten 20 dB M1 S2 Center 2.437 000 GHz *Res BW 100 kHz Span 20 MHz *VBW 300 kHz Sweep 1.92 ms (1201 pts) Occupied Bandwidth 18.9465 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -5.599 kHz x dB Bandwidth 19.129 MHz
2462 MHz	2462 MHz
RU Index 61	RU Index 61
Agilent R T Ref 5 dBm *Peak Log 10 dB/ LgAv Atten 20 dB M1 S2 Center 2.462 00 GHz *Res BW 220 kHz Span 50 MHz *VBW 680 kHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 19.0423 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -14.927 kHz x dB Bandwidth 19.213 MHz	Agilent R T Ref 5 dBm *Peak Log 10 dB/ LgAv Atten 20 dB M1 S2 Center 2.462 000 GHz *Res BW 100 kHz Span 20 MHz *VBW 300 kHz Sweep 1.92 ms (1201 pts) Occupied Bandwidth 18.9440 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -10.577 kHz x dB Bandwidth 19.111 MHz

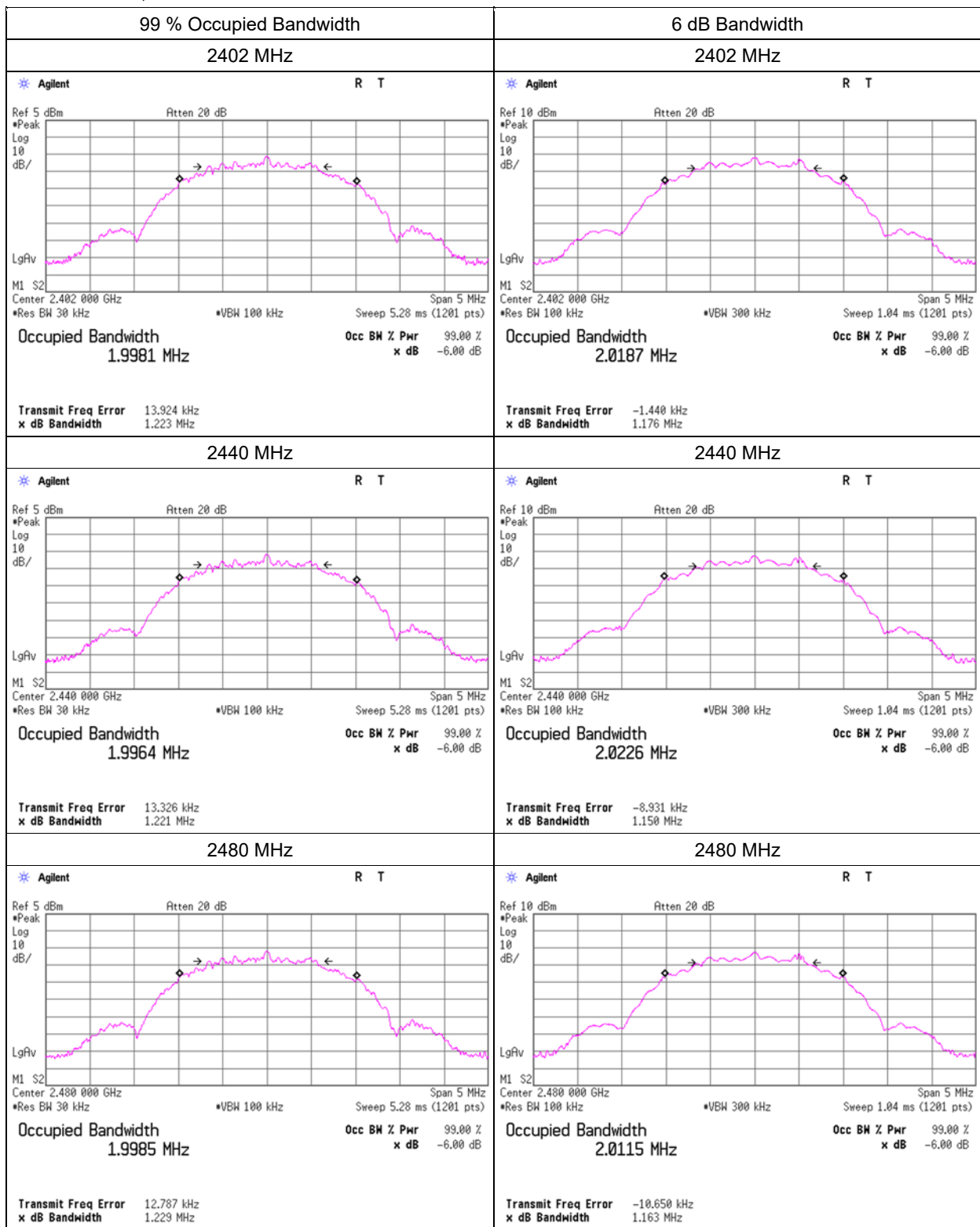
99 % Occupied Bandwidth and 6 dB Bandwidth

BT LE 1M-PHY, SISO



99 % Occupied Bandwidth and 6 dB Bandwidth

BT LE 2M-PHY, SISO



Maximum Peak Output Power

Mode	Tx 11b, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 09, 2025	PR3	22 deg.C	68 %RH	Takumi Nishida

11b, SISO

Antenna Port: ANT2				Conducted Power					e.i.r.p. for RSS-247					
Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin	Antenna Gain [dBi]	Result		Limit		Margin
				[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	1.61	1.39	10.00	13.00	19.96	30.00	1000.00	17.00	1.01	14.01	25.18	36.02	4000.00	22.01
2437	1.37	1.40	10.00	12.77	18.93	30.00	1000.00	17.23	1.01	13.78	23.88	36.02	4000.00	22.24
2462	1.39	1.40	10.00	12.79	19.02	30.00	1000.00	17.21	1.01	13.80	23.99	36.02	4000.00	22.22

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

Worst rate check (2412 MHz)

Antenna	Rate [Mbps]	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
						[dBm]	[mW]	
ANT2	1	-	1.15	1.39	10.00	12.54	17.95	-
	2	-	1.19	1.39	10.00	12.58	18.11	-
	5.5	-	1.34	1.39	10.00	12.73	18.75	*
	11	-	1.13	1.39	10.00	12.52	17.86	-

*Worst Rate

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

Maximum Peak Output Power

Mode	Tx 11g, SISO
------	--------------

Date	Test Place	Temperature	Humidity	Engineer
October 09, 2025	PR3	22 deg.C	68 %RH	Takumi Nishida

11g, SISO

Antenna Port: ANT2				Conducted Power					e.i.r.p. for RSS-247					
Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin	Antenna Gain [dBi]	Result		Limit		Margin
				[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	2.79	1.39	10.00	14.18	26.19	30.00	1000.00	15.82	1.01	15.19	33.04	36.02	4000.00	20.83
2437	2.68	1.40	10.00	14.08	25.59	30.00	1000.00	15.92	1.01	15.09	32.29	36.02	4000.00	20.93
2462	2.57	1.40	10.00	13.97	24.95	30.00	1000.00	16.03	1.01	14.98	31.48	36.02	4000.00	21.04

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

Worst rate check (2412 MHz)

Antenna	Rate [Mbps]	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
						[dBm]	[mW]	
ANT2	6	-	-0.43	1.39	10.00	10.96	12.47	-
	9	-	-0.44	1.39	10.00	10.95	12.45	-
	12	-	-0.25	1.39	10.00	11.14	13.00	-
	18	-	-0.21	1.39	10.00	11.18	13.12	-
	24	-	2.68	1.39	10.00	14.07	25.53	*
	36	-	2.39	1.39	10.00	13.78	23.88	-
	48	-	2.38	1.39	10.00	13.77	23.82	-
	54	-	2.23	1.39	10.00	13.62	23.01	-

*Worst Rate

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

Maximum Peak Output Power

Mode	Tx 11n-20, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 09, 2025	PR3	22 deg.C	68 %RH	Takumi Nishida

11n-20, SISO

Antenna Port: ANT2				Conducted Power						e.i.r.p. for RSS-247					
Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin	Antenna Gain [dBi]	Result		Limit		Margin	
				[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBm]	[mW]	[dBm]	[mW]	[dB]	
2412	3.50	1.39	10.00	14.89	30.84	30.00	1000.00	15.11	1.01	15.90	38.91	36.02	4000.00	20.12	
2437	3.35	1.40	10.00	14.75	29.86	30.00	1000.00	15.25	1.01	15.76	37.68	36.02	4000.00	20.26	
2462	3.20	1.40	10.00	14.60	28.85	30.00	1000.00	15.40	1.01	15.61	36.40	36.02	4000.00	20.41	

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

Worst rate check (2412 MHz)

Antenna	MCS Index	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
						[dBm]	[mW]	
ANT2	0	-	-0.53	1.39	10.00	10.86	12.19	-
	1	-	-0.63	1.39	10.00	10.76	11.91	-
	2	-	-0.56	1.39	10.00	10.83	12.11	-
	3	-	-0.66	1.39	10.00	10.73	11.83	-
	4	-	3.34	1.39	10.00	14.73	29.72	*
	5	-	2.81	1.39	10.00	14.20	26.30	-
	6	-	2.81	1.39	10.00	14.20	26.30	-
	7	-	3.18	1.39	10.00	14.57	28.64	-

*Worst MCS

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

Maximum Peak Output Power

Mode	Tx 11ax-20(OFDM), SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 09, 2025	PR3	22 deg.C	68 %RH	Takumi Nishida

11ax-20(OFDM), SISO

Antenna Port: ANT2				Conducted Power					e.i.r.p. for RSS-247				
Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin	Antenna Gain [dBi]	Result		Limit	
				[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBm]	[mW]	[dBm]	[mW]
2412	3.78	1.39	10.00	15.17	32.89	30.00	1000.00	14.83	1.01	16.18	41.50	36.02	4000.00
2437	3.70	1.40	10.00	15.10	32.36	30.00	1000.00	14.90	1.01	16.11	40.84	36.02	4000.00
2462	3.65	1.40	10.00	15.05	31.99	30.00	1000.00	14.95	1.01	16.06	40.37	36.02	4000.00

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

Worst rate check (2412 MHz)

Antenna	MCS Index	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
						[dBm]	[mW]	
ANT2	0 (1SS)	-	0.61	1.39	10.00	12.00	15.85	-
	1 (1SS)	-	0.63	1.39	10.00	12.02	15.92	-
	2 (1SS)	-	0.65	1.39	10.00	12.04	16.00	-
	3 (1SS)	-	0.57	1.39	10.00	11.96	15.70	-
	4 (1SS)	-	3.06	1.39	10.00	14.45	27.86	-
	5 (1SS)	-	3.57	1.39	10.00	14.96	31.33	-
	6 (1SS)	-	3.89	1.39	10.00	15.28	33.73	*
	7 (1SS)	-	3.36	1.39	10.00	14.75	29.85	-
	8 (1SS)	-	3.39	1.39	10.00	14.78	30.06	-
	9 (1SS)	-	3.25	1.39	10.00	14.64	29.11	-
	10 (1SS)	-	3.88	1.39	10.00	15.27	33.65	-
	11 (1SS)	-	3.66	1.39	10.00	15.05	31.99	-

*Worst MCS

(* SS: Spatial Stream)

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

Maximum Peak Output Power

Mode	Tx 11ax-20(OFDMA), 26-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 16, 2025	MR8	25 deg.C	66 %RH	Junki Nagatomi

11ax-20(OFDMA), 26-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	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]
2412	0	-7.25	1.39	10.00	4.14	2.60	30.00	1000.00	25.86	1.01	5.15	3.28	36.02	4000.00	30.87
2437	4	-7.46	1.40	10.00	3.94	2.48	30.00	1000.00	26.06	1.01	4.95	3.13	36.02	4000.00	31.07
2462	8	-7.44	1.40	10.00	3.96	2.49	30.00	1000.00	26.04	1.01	4.97	3.15	36.02	4000.00	31.05

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

Worst rate check (2412 MHz)

Antenna	-	MCS Index	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
							[dBm]	[mW]	
ANT2	-	0 (1SS)	-	0.61	1.39	10.00	12.00	15.85	-
	-	1 (1SS)	-	0.63	1.39	10.00	12.02	15.92	-
	-	2 (1SS)	-	0.65	1.39	10.00	12.04	16.00	-
	-	3 (1SS)	-	0.57	1.39	10.00	11.96	15.70	-
	-	4 (1SS)	-	3.06	1.39	10.00	14.45	27.86	-
	-	5 (1SS)	-	3.57	1.39	10.00	14.96	31.33	-
	-	6 (1SS)	-	3.89	1.39	10.00	15.28	33.73	*
	-	7 (1SS)	-	3.36	1.39	10.00	14.75	29.85	-
	-	8 (1SS)	-	3.39	1.39	10.00	14.78	30.06	-
	-	9 (1SS)	-	3.25	1.39	10.00	14.64	29.11	-
	-	10 (1SS)	-	3.88	1.39	10.00	15.27	33.65	-
	-	11 (1SS)	-	3.66	1.39	10.00	15.05	31.99	-

*Worst MCS

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

(* SS: Spatial Stream)

Maximum Peak Output Power

Mode	Tx 11ax-20(OFDMA), 52-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 16, 2025	MR8	25 deg.C	66 %RH	Junki Nagatomi

11ax-20(OFDMA), 52-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	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]
2412	37	-4.41	1.39	10.00	6.98	4.99	30.00	1000.00	23.02	1.01	7.99	6.30	36.02	4000.00	28.03
2437	38	-4.40	1.40	10.00	7.00	5.02	30.00	1000.00	23.00	1.01	8.01	6.33	36.02	4000.00	28.01
2462	40	-4.34	1.40	10.00	7.06	5.09	30.00	1000.00	22.94	1.01	8.07	6.42	36.02	4000.00	27.95

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

Worst rate check (2412 MHz)

Antenna	-	MCS Index	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
							[dBm]	[mW]	
ANT2	-	0 (1SS)	-	0.61	1.39	10.00	12.00	15.85	-
	-	1 (1SS)	-	0.63	1.39	10.00	12.02	15.92	-
	-	2 (1SS)	-	0.65	1.39	10.00	12.04	16.00	-
	-	3 (1SS)	-	0.57	1.39	10.00	11.96	15.70	-
	-	4 (1SS)	-	3.06	1.39	10.00	14.45	27.86	-
	-	5 (1SS)	-	3.57	1.39	10.00	14.96	31.33	-
	-	6 (1SS)	-	3.89	1.39	10.00	15.28	33.73	*
	-	7 (1SS)	-	3.36	1.39	10.00	14.75	29.85	-
	-	8 (1SS)	-	3.39	1.39	10.00	14.78	30.06	-
	-	9 (1SS)	-	3.25	1.39	10.00	14.64	29.11	-
	-	10 (1SS)	-	3.88	1.39	10.00	15.27	33.65	-
	-	11 (1SS)	-	3.66	1.39	10.00	15.05	31.99	-

*Worst MCS

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

(* SS: Spatial Stream)

Maximum Peak Output Power

Mode	Tx 11ax-20(OFDMA), 106-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 16, 2025	MR8	25 deg.C	66 %RH	Junki Nagatomi

11ax-20(OFDMA), 106-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted Power					e.i.r.p. for RSS-247				
					Result		Limit		Margin	Antenna Gain [dBi]	Result		Limit	
					[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBm]	[mW]	[dBm]	[mW]
2412	53	-0.66	1.39	10.00	10.73	11.84	30.00	1000.00	19.27	1.01	11.74	14.93	36.02	4000.00
2437	53	-0.81	1.40	10.00	10.59	11.46	30.00	1000.00	19.41	1.01	11.60	14.46	36.02	4000.00
2462	54	-0.79	1.40	10.00	10.61	11.51	30.00	1000.00	19.39	1.01	11.62	14.53	36.02	4000.00

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

Worst rate check (2412 MHz)

Antenna	-	MCS Index	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
							[dBm]	[mW]	
ANT2	-	0 (1SS)	-	0.61	1.39	10.00	12.00	15.85	-
	-	1 (1SS)	-	0.63	1.39	10.00	12.02	15.92	-
	-	2 (1SS)	-	0.65	1.39	10.00	12.04	16.00	-
	-	3 (1SS)	-	0.57	1.39	10.00	11.96	15.70	-
	-	4 (1SS)	-	3.06	1.39	10.00	14.45	27.86	-
	-	5 (1SS)	-	3.57	1.39	10.00	14.96	31.33	-
	-	6 (1SS)	-	3.89	1.39	10.00	15.28	33.73	*
	-	7 (1SS)	-	3.36	1.39	10.00	14.75	29.85	-
	-	8 (1SS)	-	3.39	1.39	10.00	14.78	30.06	-
	-	9 (1SS)	-	3.25	1.39	10.00	14.64	29.11	-
	-	10 (1SS)	-	3.88	1.39	10.00	15.27	33.65	-
	-	11 (1SS)	-	3.66	1.39	10.00	15.05	31.99	-

*Worst MCS

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

(* SS: Spatial Stream)

Maximum Peak Output Power

Mode	Tx 11ax-20(OFDMA), 242-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 16, 2025	MR8	25 deg.C	66 %RH	Junki Nagatomi

11ax-20(OFDMA), 242-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted Power					e.i.r.p. for RSS-247				
					Result		Limit		Margin	Antenna Gain [dBi]	Result		Limit	
					[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBm]	[mW]	[dBm]	[mW]
2412	61	2.67	1.39	10.00	14.06	25.47	30.00	1000.00	15.94	1.01	15.07	32.14	36.02	4000.00
2437	61	2.69	1.40	10.00	14.09	25.65	30.00	1000.00	15.91	1.01	15.10	32.36	36.02	4000.00
2462	61	2.42	1.40	10.00	13.82	24.10	30.00	1000.00	16.18	1.01	14.83	30.41	36.02	4000.00

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

Worst rate check (2412 MHz)

Antenna	-	MCS Index	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Remark
							[dBm]	[mW]	
ANT2	-	0 (1SS)	-	0.61	1.39	10.00	12.00	15.85	-
	-	1 (1SS)	-	0.63	1.39	10.00	12.02	15.92	-
	-	2 (1SS)	-	0.65	1.39	10.00	12.04	16.00	-
	-	3 (1SS)	-	0.57	1.39	10.00	11.96	15.70	-
	-	4 (1SS)	-	3.06	1.39	10.00	14.45	27.86	-
	-	5 (1SS)	-	3.57	1.39	10.00	14.96	31.33	-
	-	6 (1SS)	-	3.89	1.39	10.00	15.28	33.73	*
	-	7 (1SS)	-	3.36	1.39	10.00	14.75	29.85	-
	-	8 (1SS)	-	3.39	1.39	10.00	14.78	30.06	-
	-	9 (1SS)	-	3.25	1.39	10.00	14.64	29.11	-
	-	10 (1SS)	-	3.88	1.39	10.00	15.27	33.65	-
	-	11 (1SS)	-	3.66	1.39	10.00	15.05	31.99	-

*Worst MCS

(* SS: Spatial Stream)

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

Maximum Peak Output Power

Mode	Tx BT LE 1M-PHY, SISO
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Date	Test Place	Temperature	Humidity	Engineer
December 08, 2025	MR8	23 deg.C	42 %RH	Takumi Nishida

BT LE 1M-PHY, SISO

Antenna Port: ANT1

Antenna Port: ANT1				Conducted Power					e.i.r.p. for RSS-247					
Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]	Antenna Gain [dBi]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]			[dBm]	[mW]			
2402	-11.80	1.81	9.74	-0.25	0.95	30.00	1000.00	30.25	0.92	0.67	1.17	36.02	4000.00	35.35
2440	-11.81	1.82	9.74	-0.25	0.95	30.00	1000.00	30.25	0.92	0.67	1.17	36.02	4000.00	35.35
2480	-11.80	1.83	9.74	-0.23	0.95	30.00	1000.00	30.23	0.92	0.69	1.18	36.02	4000.00	35.33

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

Worst rate check (2402 MHz)

Antenna	Mode	-	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm] [mW]		Remark
ANT1	1M-PHY	-	-12.61	1.53	10.00	-1.08	0.78	*
	S=8	-	-12.66	1.53	10.00	-1.13	0.77	-
	S=2	-	-12.68	1.53	10.00	-1.15	0.77	-

*Worst Mode

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

Maximum Peak Output Power

Mode	Tx BT LE 2M-PHY, SISO
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Date	Test Place	Temperature	Humidity	Engineer
December 08, 2025	MR8	23 deg.C	42 %RH	Takumi Nishida

BT LE 2M-PHY, SISO

Antenna Port: ANT1

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	-11.40	1.81	9.74	0.15	1.04	30.00	1000.00	29.85	0.92	1.07	1.28	36.02	4000.00	34.95
2440	-11.59	1.82	9.74	-0.03	1.00	30.00	1000.00	30.03	0.92	0.89	1.23	36.02	4000.00	35.13
2480	-11.60	1.83	9.74	-0.03	1.00	30.00	1000.00	30.03	0.92	0.89	1.23	36.02	4000.00	35.13

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 11b, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11b, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result	
				[dBm]	[mW]
2412	0.65	0.51	9.74	10.90	12.31
2437	0.45	0.51	9.74	10.70	11.75
2462	0.46	0.51	9.74	10.71	11.78

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx 11g, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11g, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result	
				[dBm]	[mW]
2412	-5.88	0.51	9.74	4.37	2.74
2437	-5.97	0.51	9.74	4.28	2.68
2462	-6.05	0.51	9.74	4.20	2.64

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx 11n-20, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11n-20, SISO
Antenna Port: ANT2

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result	
				[dBm]	[mW]
2412	-6.05	0.51	9.74	4.20	2.64
2437	-6.18	0.51	9.74	4.07	2.56
2462	-6.29	0.51	9.74	3.96	2.49

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx 11ax-20(OFDM), SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11ax-20(OFDM), SISO
Antenna Port: ANT2

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result	
				[dBm]	[mW]
2412	-5.99	0.51	9.74	4.26	2.67
2437	-6.00	0.51	9.74	4.25	2.67
2462	-6.13	0.51	9.74	4.12	2.59

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx 11ax-20(OFDMA), 26-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11ax-20(OFDMA), 26-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	Reading	Cable Loss	Atten. Loss	Result	
		[dBm]	[dB]	[dB]	[dBm]	[mW]
2412	0	-16.64	0.51	9.74	-6.39	0.23
		-16.96	0.51	9.74	-6.71	0.22
		-16.52	0.51	9.74	-6.27	0.24
2437	4	-16.63	0.51	9.74	-6.38	0.24
		-17.05	0.51	9.74	-6.80	0.21
		-16.66	0.51	9.74	-6.41	0.23
2462	8	-16.70	0.51	9.74	-6.45	0.23
		-17.12	0.51	9.74	-6.87	0.21
		-16.78	0.51	9.74	-6.53	0.23

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx 11ax-20(OFDMA), 52-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11ax-20(OFDMA), 52-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	Reading	Cable Loss	Atten. Loss	Result	
		[dBm]	[dB]	[dB]	[dBm]	[mW]
2412	37	-13.56	0.51	9.74	-3.31	0.47
		-13.76	0.51	9.74	-3.51	0.45
		-13.48	0.51	9.74	-3.23	0.48
2437	38	-13.62	0.51	9.74	-3.37	0.47
		-13.85	0.51	9.74	-3.60	0.44
		-13.64	0.51	9.74	-3.39	0.46
2462	40	-13.53	0.51	9.74	-3.28	0.47
		-13.79	0.51	9.74	-3.54	0.45
		-13.62	0.51	9.74	-3.37	0.47

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx 11ax-20(OFDMA), 106-tone RU, SISO				
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11ax-20(OFDMA), 106-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	Reading	Cable Loss	Atten. Loss	Result	
		[dBm]	[dB]	[dB]	[dBm]	[mW]
2412	53	-9.47	0.51	9.74	0.78	1.20
		-9.37	0.51	9.74	0.89	1.23
2437	53	-9.71	0.51	9.74	0.54	1.14
		-9.75	0.51	9.74	0.50	1.13
2462	54	-9.72	0.51	9.74	0.53	1.13
		-9.89	0.51	9.74	0.36	1.09

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx 11ax-20(OFDMA), 242-tone RU, SISO				
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Date	Test Place	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	54 %RH	Takafumi Noguchi

11ax-20(OFDMA), 242-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result	
					[dBm]	[mW]
2412	61	-6.08	0.51	9.74	4.17	2.62
2437	61	-6.06	0.51	9.74	4.19	2.63
2462	61	-6.23	0.51	9.74	4.02	2.53

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

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.

Average Output Power

Mode	Tx BT LE 1M-PHY, SISO
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Date	Test Place	Temperature	Humidity	Engineer
December 08, 2025	MR8	23 deg.C	42 %RH	Takumi Nishida

BT LE 1M-PHY, SISO

Antenna Port: ANT1

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result	
				[dBm]	[mW]
2402	-12.20	1.81	9.74	-0.65	0.87
2440	-12.40	1.82	9.74	-0.84	0.83
2480	-12.22	1.83	9.74	-0.65	0.87

Sample Calculation:

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

*) This measurement was performed only on the on time using the gate function of power meter.

Average Output Power

Mode	Tx BT LE 2M-PHY, SISO
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Date	Test Place	Temperature	Humidity	Engineer
December 08, 2025	MR8	23 deg.C	42 %RH	Takumi Nishida

BT LE 2M-PHY, SISO

Antenna Port: ANT1

Tested Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result	
				[dBm]	[mW]
2402	-11.92	1.81	9.74	-0.37	0.92
2440	-12.40	1.82	9.74	-0.84	0.83
2480	-12.26	1.83	9.74	-0.69	0.86

Sample Calculation:

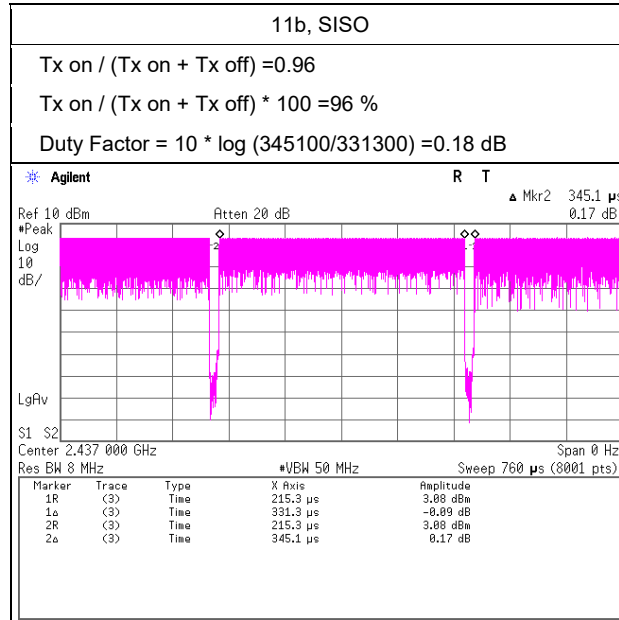
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

*) This measurement was performed only on the on time using the gate function of power meter.

Burst rate confirmation

Mode	Tx 11b, SISO			
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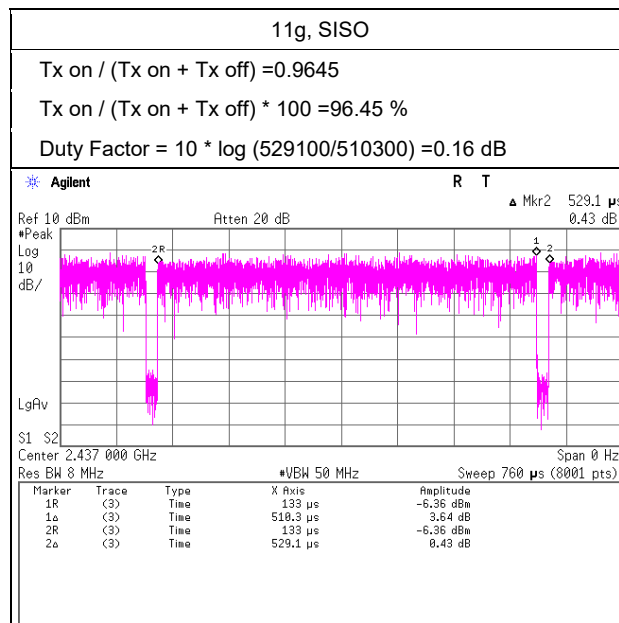
Date	Test Place	Temperature	Humidity	Engineer
October 10, 2025	PR3	23 deg.C	62 %RH	Takumi Nishida



Burst rate confirmation

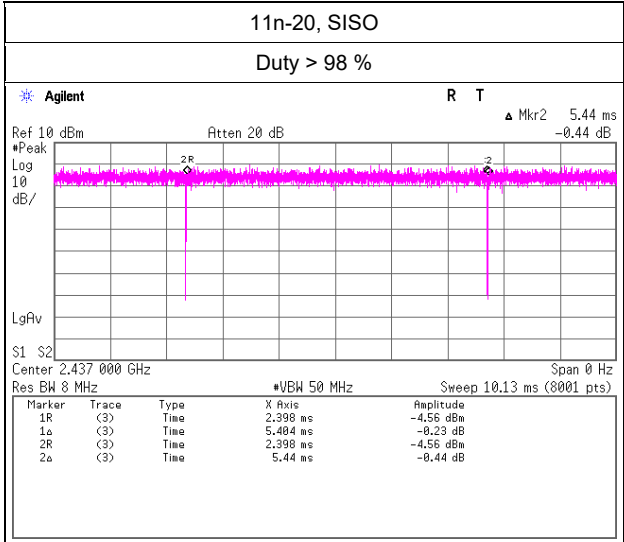
Mode	Tx 11g, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 10, 2025	PR3	23 deg.C	62 %RH	Takumi Nishida



Burst rate confirmation

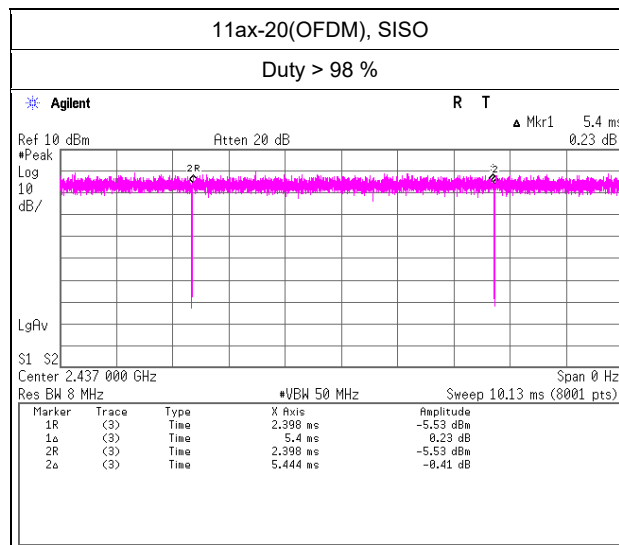
Mode	Tx 11n-20, SISO			
Date	Test Place	Temperature	Humidity	Engineer
October 10, 2025	PR3	23 deg.C	62 %RH	Takumi Nishida



Burst rate confirmation

Mode	Tx 11ax-20(OFDM), SISO			
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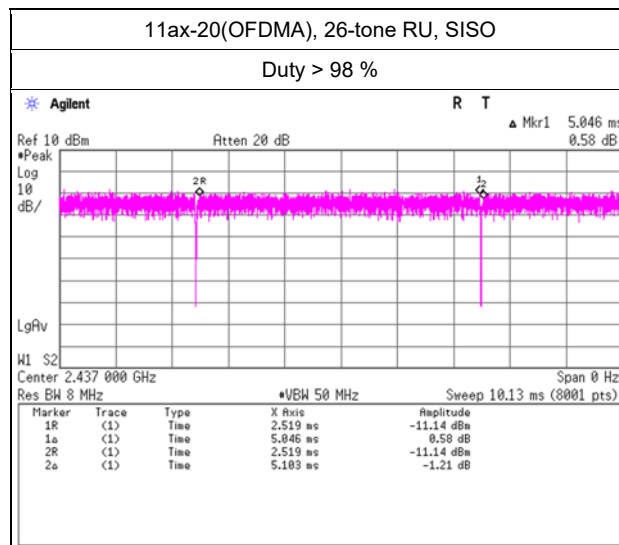
Date	Test Place	Temperature	Humidity	Engineer
October 10, 2025	PR3	23 deg.C	62 %RH	Takumi Nishida



Burst rate confirmation

Mode	Tx 11ax-20(OFDMA), 26-tone RU, SISO			
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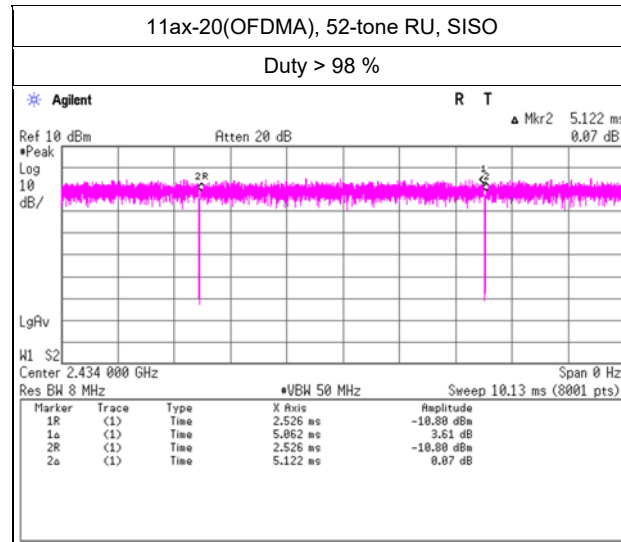
Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki



Burst rate confirmation

Mode	Tx 11ax-20(OFDMA), 52-tone RU, SISO			
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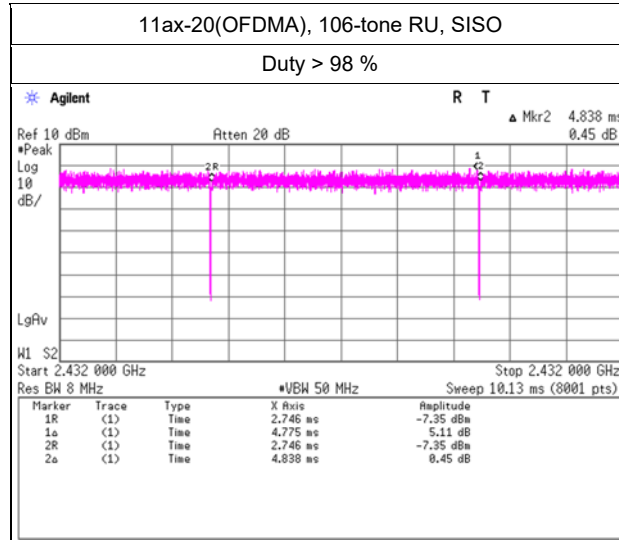
Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki



Burst rate confirmation

Mode	Tx 11ax-20(OFDMA), 106-tone RU, SISO			
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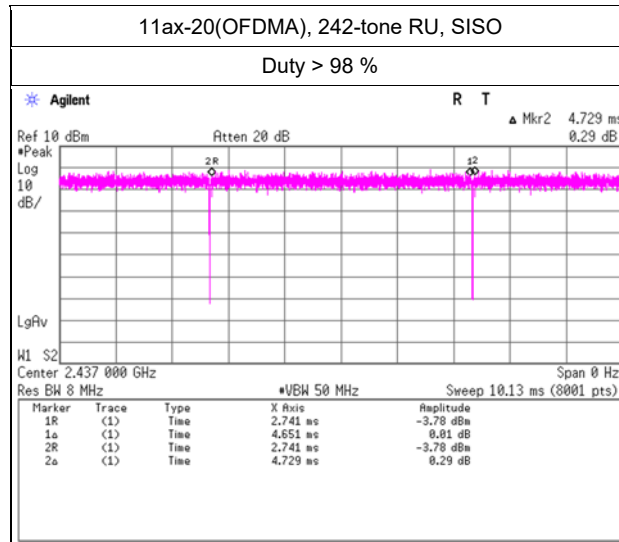
Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki



Burst rate confirmation

Mode	Tx 11ax-20(OFDMA), 242-tone RU, SISO			
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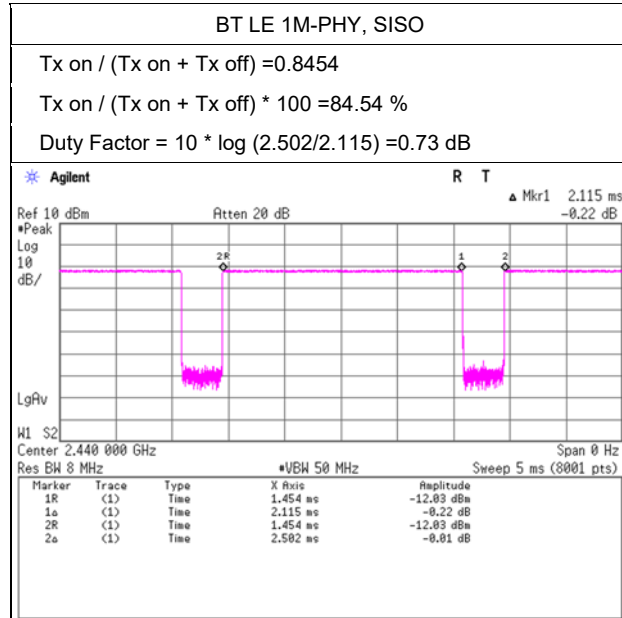
Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki



Burst rate confirmation

Mode	Tx BT LE 1M-PHY, SISO			
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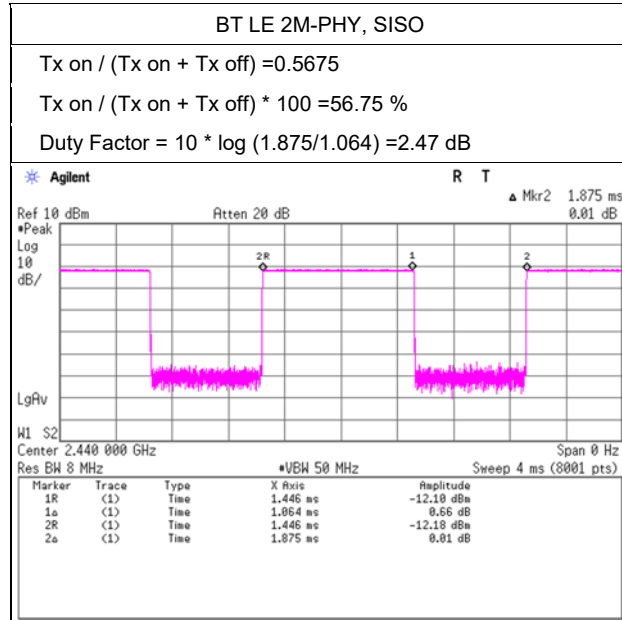
Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki



Burst rate confirmation

Mode	Tx BT LE 2M-PHY, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki



Radiated Spurious Emission

Mode	Tx 11b 2412 MHz a
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 19, 2025	SAC2	24 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.6	44.7	25.2	2.4	33.8	-	45.4	38.5	73.9	53.9	28.5	15.4	*1)
Hori.	2390.0	50.2	39.3	27.6	3.0	33.2	0.2	47.6	36.9	73.9	53.9	26.3	17.1	
Hori.	2504.8	57.4	55.6	27.4	3.1	33.2	-	54.8	53.0	73.9	53.9	19.1	0.9	
Hori.	4824.0	43.0	35.4	31.2	5.2	32.6	-	46.8	39.2	73.9	53.9	27.1	14.7	Floor noise
Hori.	7236.0	43.3	35.6	35.8	6.4	32.5	-	53.0	45.2	73.9	53.9	20.9	8.7	Floor noise
Hori.	7514.4	48.3	40.4	36.1	6.4	32.6	-	58.2	50.3	73.9	53.9	15.7	3.6	
Hori.	9648.0	43.3	35.3	38.5	7.0	33.2	-	55.6	47.6	73.9	53.9	18.3	6.3	Floor noise
Vert.	1584.9	64.5	52.1	25.2	2.4	33.8	-	58.3	45.9	73.9	53.9	15.6	8.0	*1)
Vert.	2390.0	47.7	38.1	27.6	3.0	33.2	0.2	45.0	35.6	73.9	53.9	28.9	18.3	
Vert.	2504.8	53.9	49.8	27.4	3.1	33.2	-	51.2	47.1	73.9	53.9	22.7	6.8	
Vert.	4824.0	42.7	35.2	31.2	5.2	32.6	-	46.4	39.0	73.9	53.9	27.5	14.9	Floor noise
Vert.	7236.0	43.6	35.7	35.8	6.4	32.5	-	53.2	45.4	73.9	53.9	20.7	8.5	Floor noise
Vert.	7514.4	45.5	37.4	36.1	6.4	32.6	-	55.4	47.3	73.9	53.9	18.5	6.6	
Vert.	9648.0	43.4	35.2	38.5	7.0	33.2	-	55.7	47.5	73.9	53.9	18.2	6.4	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.	2412.0	102.2	27.5	3.0	33.2	99.6	-	-	Carrier
Hori.	2400.0	51.0	27.5	3.0	33.2	48.4	79.6	31.2	
Vert.	2412.0	99.0	27.5	3.0	33.2	96.4	-	-	Carrier
Vert.	2400.0	47.5	27.5	3.0	33.2	44.8	76.4	31.6	

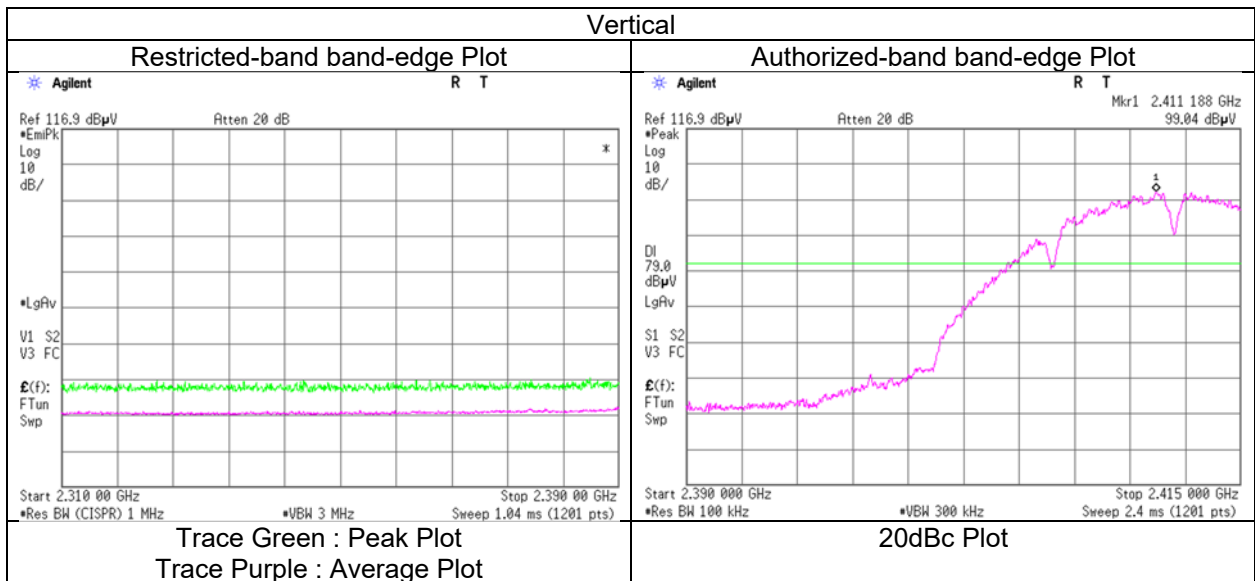
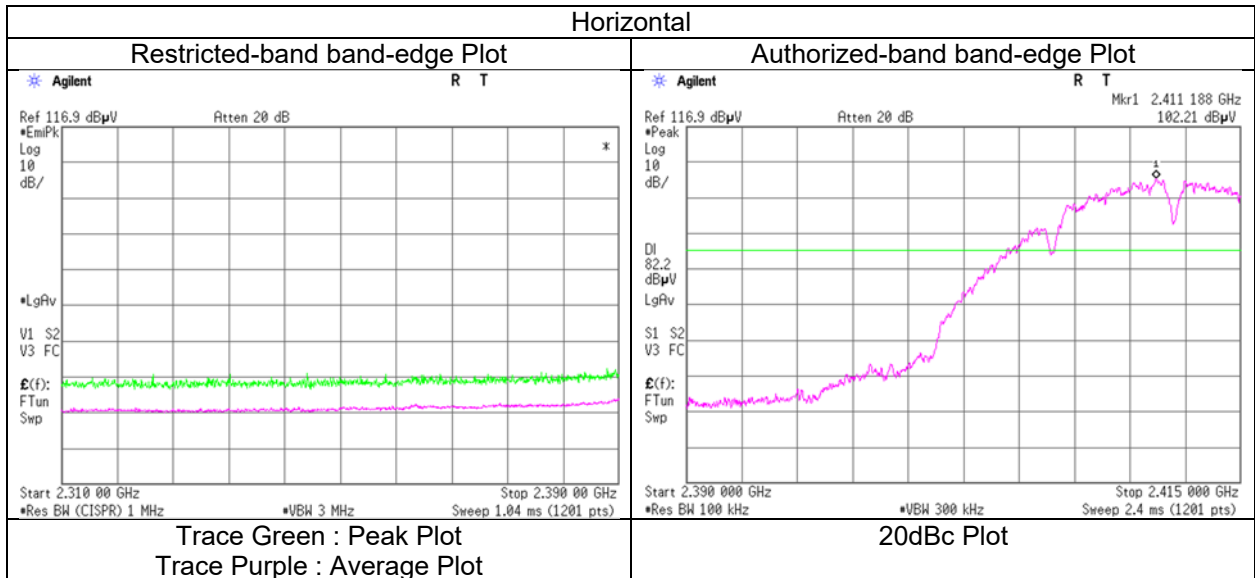
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Distance factor: 18 GHz - 26.5 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Mode	Tx 11b 2412 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 19, 2025	SAC2	24 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 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 11b 2437 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	24 deg. C	61 % RH	Yuta Moriya	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.0	54.0	44.2	25.2	2.4	33.8	-	47.8	38.0	73.9	53.9	26.1	15.9	
Hori.	2504.0	56.8	53.4	27.4	3.1	33.2	-	54.1	50.7	73.9	53.9	19.8	3.2	
Hori.	4874.0	49.3	37.5	31.3	5.2	32.6	-	53.2	41.3	73.9	53.9	20.8	12.6	Floor noise
Hori.	7311.0	50.6	37.8	35.9	6.4	32.5	-	60.4	47.6	73.9	53.9	13.5	6.3	Floor noise
Hori.	7510.0	47.6	39.4	36.1	6.4	32.6	-	57.5	49.3	73.9	53.9	16.4	4.6	
Hori.	9748.0	50.2	35.2	38.7	7.1	33.2	-	62.8	47.8	73.9	53.9	11.1	6.1	Floor noise
Vert.	1584.0	63.2	50.4	25.2	2.4	33.8	-	57.1	44.2	73.9	53.9	16.8	9.7	
Vert.	2504.0	51.3	45.0	27.4	3.1	33.2	-	48.6	42.3	73.9	53.9	25.3	11.6	
Vert.	4874.0	47.4	37.5	31.3	5.2	32.6	-	51.2	41.3	73.9	53.9	22.7	12.6	Floor noise
Vert.	7311.0	48.3	37.5	35.9	6.4	32.5	-	58.1	47.3	73.9	53.9	15.8	6.6	Floor noise
Vert.	7510.0	48.6	40.2	36.1	6.4	32.6	-	58.5	50.1	73.9	53.9	15.4	3.9	
Vert.	9748.0	48.2	35.2	38.7	7.1	33.2	-	60.8	47.8	73.9	53.9	13.1	6.1	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.

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

Radiated Spurious Emission

Mode	Tx 11b 2462 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.4	44.5	25.2	2.4	33.8	-	45.2	38.3	73.9	53.9	28.7	15.6	
Hori.	2483.5	47.3	37.1	27.4	3.1	33.2	0.2	44.6	34.6	73.9	53.9	29.3	19.3	*1)
Hori.	2504.8	57.5	55.7	27.4	3.1	33.2	-	54.8	53.0	73.9	53.9	19.1	0.9	
Hori.	4924.0	43.2	35.4	31.3	5.2	32.6	-	47.1	39.3	73.9	53.9	26.8	14.6	Floor noise
Hori.	7386.0	43.1	35.3	36.0	6.4	32.5	-	53.0	45.2	73.9	53.9	20.9	8.7	Floor noise
Hori.	7514.4	48.3	40.4	36.1	6.4	32.6	-	58.2	50.3	73.9	53.9	15.7	3.6	
Hori.	9848.0	43.4	35.0	38.8	7.1	33.2	-	56.1	47.7	73.9	53.9	17.8	6.2	Floor noise
Vert.	1584.9	64.5	52.1	25.2	2.4	33.8	-	58.3	45.9	73.9	53.9	15.6	8.0	
Vert.	2483.5	47.4	38.7	27.4	3.1	33.2	0.2	44.7	36.1	73.9	53.9	29.2	17.8	*1)
Vert.	2504.8	53.9	49.8	27.4	3.1	33.2	-	51.2	47.1	73.9	53.9	22.7	6.8	
Vert.	4924.0	42.7	35.3	31.3	5.2	32.6	-	46.7	39.3	73.9	53.9	27.2	14.7	Floor noise
Vert.	7386.0	43.4	35.6	36.0	6.4	32.5	-	53.3	45.5	73.9	53.9	20.6	8.4	Floor noise
Vert.	7514.4	45.5	37.4	36.1	6.4	32.6	-	55.4	47.3	73.9	53.9	18.5	6.6	
Vert.	9848.0	43.3	35.1	38.8	7.1	33.2	-	56.1	47.8	73.9	53.9	17.9	6.1	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

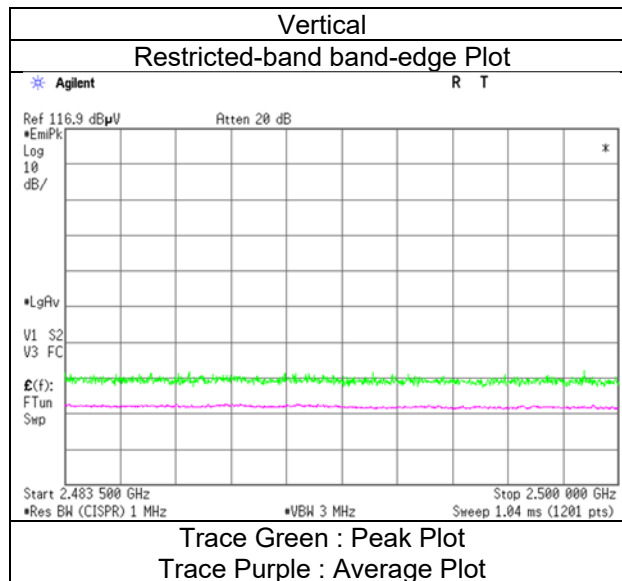
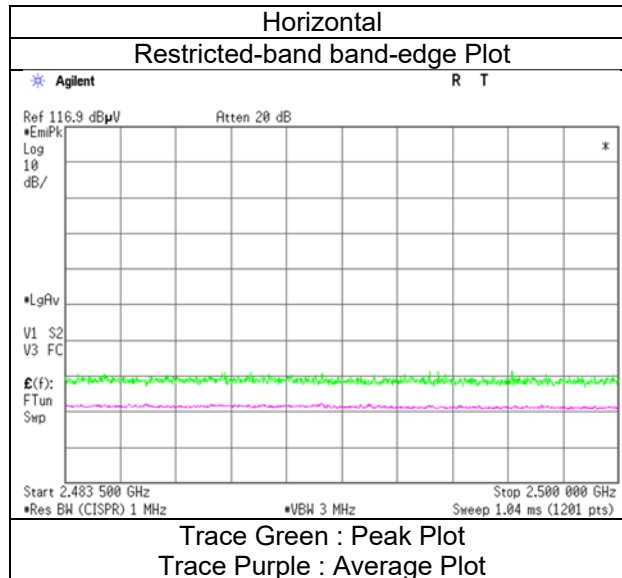
*1) Not Out of Band emission(Leakage Power)

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

Radiated Spurious Emission

Mode	Tx 11b 2462 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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 11g 2412 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.5	44.7	25.2	2.4	33.8	-	45.3	38.6	73.9	53.9	28.6	15.4	
Hori.	2390.0	47.7	37.1	27.6	3.0	33.2	0.2	45.0	34.6	73.9	53.9	28.9	19.3	*1)
Hori.	2504.8	57.5	55.8	27.4	3.1	33.2	-	54.8	53.1	73.9	53.9	19.1	0.8	
Hori.	4824.0	42.5	35.4	31.2	5.2	32.6	-	46.3	39.2	73.9	53.9	27.6	14.7	Floor noise
Hori.	7236.0	43.5	35.6	35.8	6.4	32.5	-	53.2	45.3	73.9	53.9	20.7	8.6	Floor noise
Hori.	7514.4	48.4	40.6	36.1	6.4	32.6	-	58.3	50.5	73.9	53.9	15.6	3.4	
Hori.	9648.0	43.5	35.5	38.5	7.0	33.2	-	55.9	47.9	73.9	53.9	18.0	6.1	Floor noise
Vert.	1584.9	64.7	52.2	25.2	2.4	33.8	-	58.5	46.0	73.9	53.9	15.4	7.9	
Vert.	2390.0	49.6	38.9	27.6	3.0	33.2	0.2	47.0	36.5	73.9	53.9	26.9	17.4	*1)
Vert.	2504.8	53.9	49.9	27.4	3.1	33.2	-	51.2	47.2	73.9	53.9	22.7	6.7	
Vert.	4824.0	42.7	35.2	31.2	5.2	32.6	-	46.4	39.0	73.9	53.9	27.5	14.9	Floor noise
Vert.	7236.0	43.4	35.5	35.8	6.4	32.5	-	53.1	45.1	73.9	53.9	20.8	8.8	Floor noise
Vert.	7514.4	45.4	35.4	36.1	6.4	32.6	-	55.3	45.3	73.9	53.9	18.6	8.6	
Vert.	9648.0	43.5	35.4	38.5	7.0	33.2	-	55.8	47.7	73.9	53.9	18.1	6.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.	2412.0	89.3	27.5	3.0	33.2	86.6	-	-	Carrier
Hori.	2400.0	58.0	27.5	3.0	33.2	55.3	66.6	11.3	
Vert.	2412.0	94.3	27.5	3.0	33.2	91.6	-	-	Carrier
Vert.	2400.0	63.0	27.5	3.0	33.2	60.4	71.6	11.3	

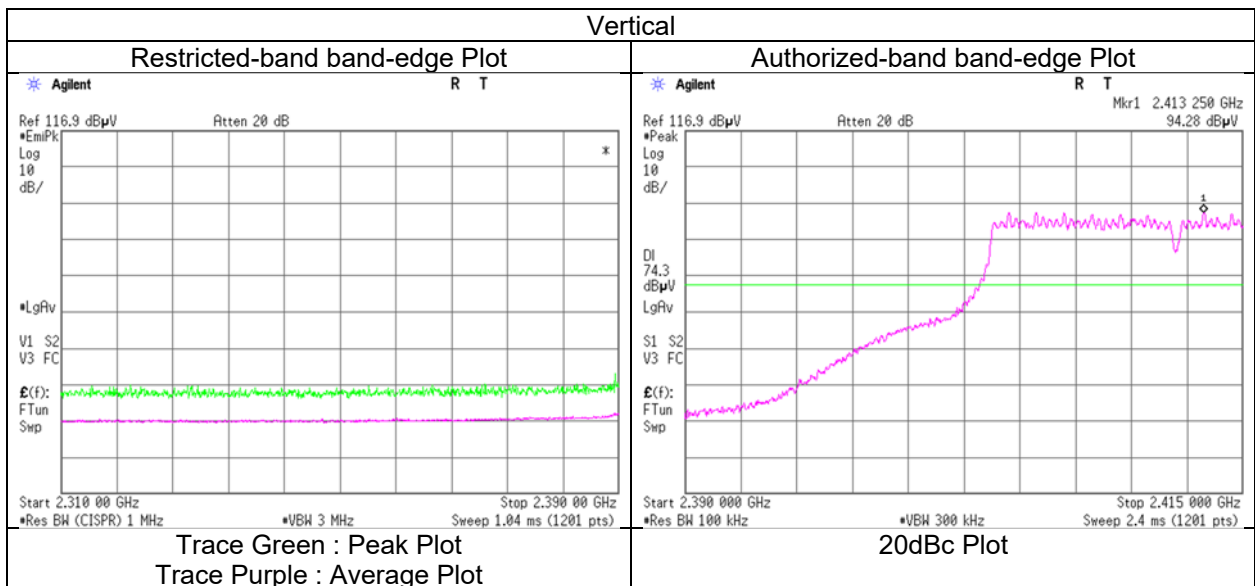
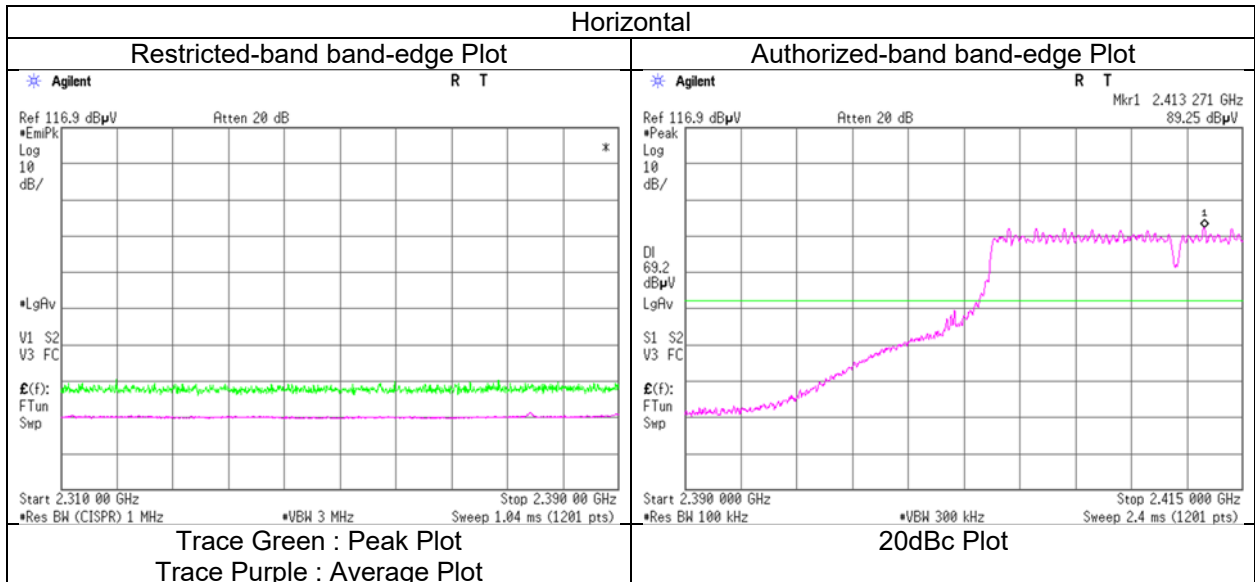
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Radiated Spurious Emission

Mode	Tx 11g 2412 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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 11g 2437 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.0	53.8	44.0	25.2	2.4	33.8	-	47.6	37.8	73.9	53.9	26.3	16.1	
Hori.	2504.0	56.5	55.2	27.4	3.1	33.2	-	53.8	52.5	73.9	53.9	20.1	1.4	
Hori.	4874.0	49.4	37.4	31.3	5.2	32.6	-	53.2	41.2	73.9	53.9	20.7	12.7	Floor noise
Hori.	7311.0	47.4	37.7	35.9	6.4	32.5	-	57.2	47.5	73.9	53.9	16.7	6.5	Floor noise
Hori.	7510.0	47.7	39.2	36.1	6.4	32.6	-	57.6	49.1	73.9	53.9	16.3	4.8	
Hori.	9748.0	50.1	35.2	38.7	7.1	33.2	-	62.7	47.8	73.9	53.9	11.2	6.1	Floor noise
Vert.	1584.0	63.6	50.5	25.2	2.4	33.8	-	57.4	44.3	73.9	53.9	16.5	9.6	
Vert.	2504.0	51.4	44.8	27.4	3.1	33.2	-	48.8	42.1	73.9	53.9	25.2	11.8	
Vert.	4874.0	47.6	37.6	31.3	5.2	32.6	-	51.4	41.4	73.9	53.9	22.5	12.5	Floor noise
Vert.	7311.0	48.1	37.5	35.9	6.4	32.5	-	57.9	47.3	73.9	53.9	16.0	6.6	Floor noise
Vert.	7510.0	48.4	40.2	36.1	6.4	32.6	-	58.3	50.1	73.9	53.9	15.6	3.8	
Vert.	9748.0	48.4	35.1	38.7	7.1	33.2	-	61.0	47.7	73.9	53.9	12.9	6.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

Distance factor: 18 GHz - 26.5 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Mode	Tx 11g 2462 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.2	44.7	25.2	2.4	33.8	-	45.0	38.5	73.9	53.9	28.9	15.4	
Hori.	2483.5	45.9	36.9	27.4	3.1	33.2	0.2	43.2	34.4	73.9	53.9	30.7	19.5	*1)
Hori.	2504.8	57.6	55.6	27.4	3.1	33.2	-	54.9	52.9	73.9	53.9	19.0	1.0	
Hori.	4924.0	43.2	35.4	31.3	5.2	32.6	-	47.1	39.3	73.9	53.9	26.8	14.6	Floor noise
Hori.	7386.0	43.2	35.5	36.0	6.4	32.5	-	53.1	45.4	73.9	53.9	20.8	8.5	Floor noise
Hori.	7514.4	48.4	40.3	36.1	6.4	32.6	-	58.3	50.2	73.9	53.9	15.6	3.7	
Hori.	9848.0	43.5	35.1	38.8	7.1	33.2	-	56.2	47.9	73.9	53.9	17.7	6.0	Floor noise
Vert.	1584.9	64.4	52.3	25.2	2.4	33.8	-	58.2	46.1	73.9	53.9	15.7	7.8	
Vert.	2483.5	47.0	37.7	27.4	3.1	33.2	0.2	44.3	35.2	73.9	53.9	29.6	18.7	*1)
Vert.	2504.8	54.0	49.7	27.4	3.1	33.2	-	51.3	47.0	73.9	53.9	22.6	6.9	
Vert.	4924.0	42.5	35.4	31.3	5.2	32.6	-	46.5	39.3	73.9	53.9	27.4	14.6	Floor noise
Vert.	7386.0	43.2	35.2	36.0	6.4	32.5	-	53.1	45.1	73.9	53.9	20.8	8.8	Floor noise
Vert.	7514.4	45.4	37.6	36.1	6.4	32.6	-	55.3	47.5	73.9	53.9	18.6	6.4	
Vert.	9848.0	43.3	35.0	38.8	7.1	33.2	-	56.0	47.7	73.9	53.9	17.9	6.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

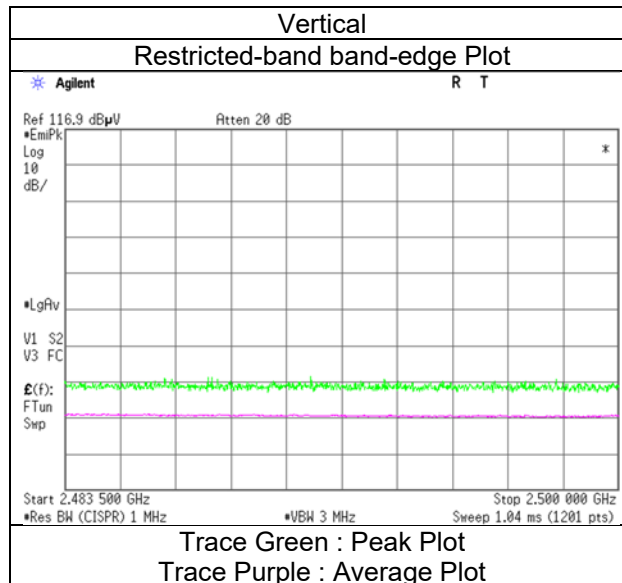
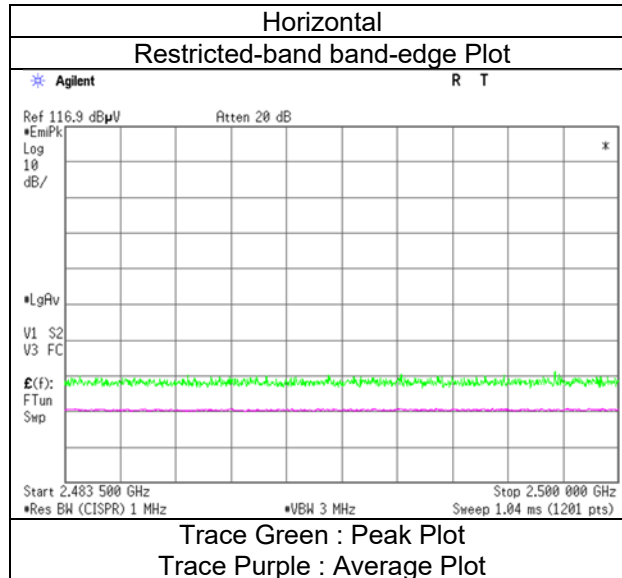
*QP detector was used up to 1GHz.

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

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

Radiated Spurious Emission

Mode	Tx 11g 2462 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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 11n-20 2412 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.4	44.7	25.2	2.4	33.8	-	45.2	38.6	73.9	53.9	28.7	15.4	
Hori.	2390.0	47.4	37.6	27.6	3.0	33.2	-	44.8	35.0	73.9	53.9	29.1	18.9	
Hori.	2504.8	57.6	55.8	27.4	3.1	33.2	-	54.9	53.1	73.9	53.9	19.0	0.8	
Hori.	4824.0	42.6	35.3	31.2	5.2	32.6	-	46.4	39.1	73.9	53.9	27.5	14.8	Floor noise
Hori.	7236.0	43.4	35.5	35.8	6.4	32.5	-	53.1	45.2	73.9	53.9	20.8	8.7	Floor noise
Hori.	7514.4	48.7	40.4	36.1	6.4	32.6	-	58.6	50.3	73.9	53.9	15.3	3.6	
Hori.	9648.0	43.6	35.4	38.5	7.0	33.2	-	55.9	47.7	73.9	53.9	18.0	6.2	Floor noise
Vert.	1584.9	64.7	52.2	25.2	2.4	33.8	-	58.5	46.0	73.9	53.9	15.4	7.9	
Vert.	2390.0	51.0	40.4	27.6	3.0	33.2	-	48.4	37.8	73.9	53.9	25.5	16.1	
Vert.	2504.8	53.7	50.0	27.4	3.1	33.2	-	51.0	47.3	73.9	53.9	22.9	6.6	
Vert.	4824.0	42.6	35.3	31.2	5.2	32.6	-	46.3	39.1	73.9	53.9	27.6	14.8	Floor noise
Vert.	7236.0	43.4	35.6	35.8	6.4	32.5	-	53.1	45.2	73.9	53.9	20.8	8.7	Floor noise
Vert.	7514.4	45.2	35.3	36.1	6.4	32.6	-	55.1	45.2	73.9	53.9	18.8	8.7	
Vert.	9648.0	43.6	35.4	38.5	7.0	33.2	-	55.9	47.7	73.9	53.9	18.0	6.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

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.	2412.0	89.7	27.5	3.0	33.2	87.1	-	-	Carrier
Hori.	2400.0	59.0	27.5	3.0	33.2	56.3	67.1	10.8	
Vert.	2412.0	94.2	27.5	3.0	33.2	91.5	-	-	Carrier
Vert.	2400.0	64.1	27.5	3.0	33.2	61.4	71.5	10.1	

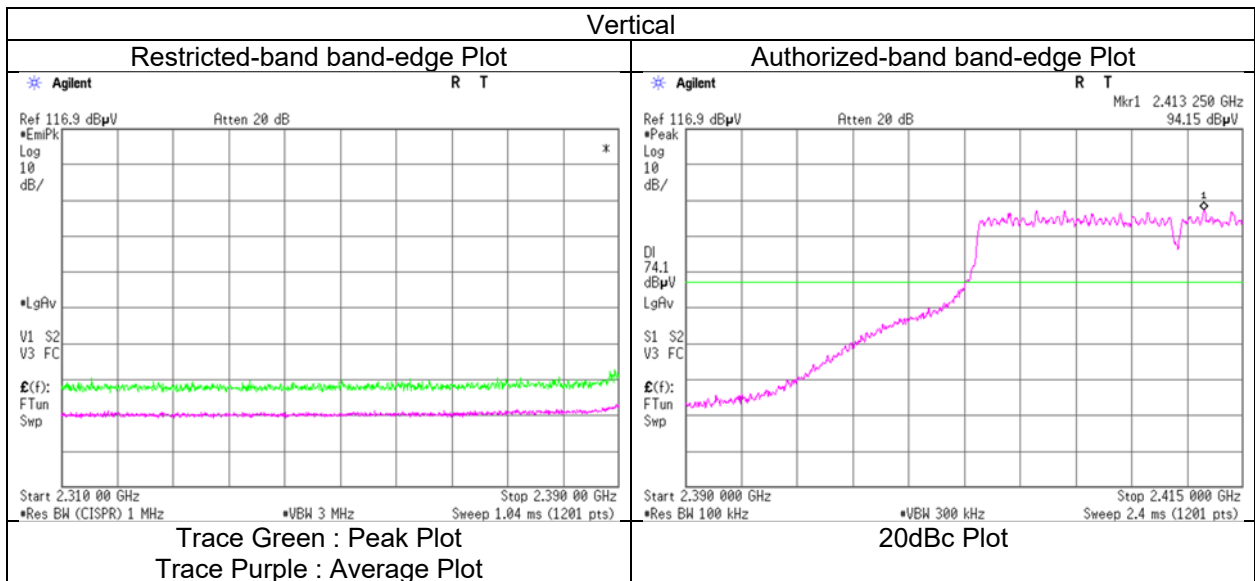
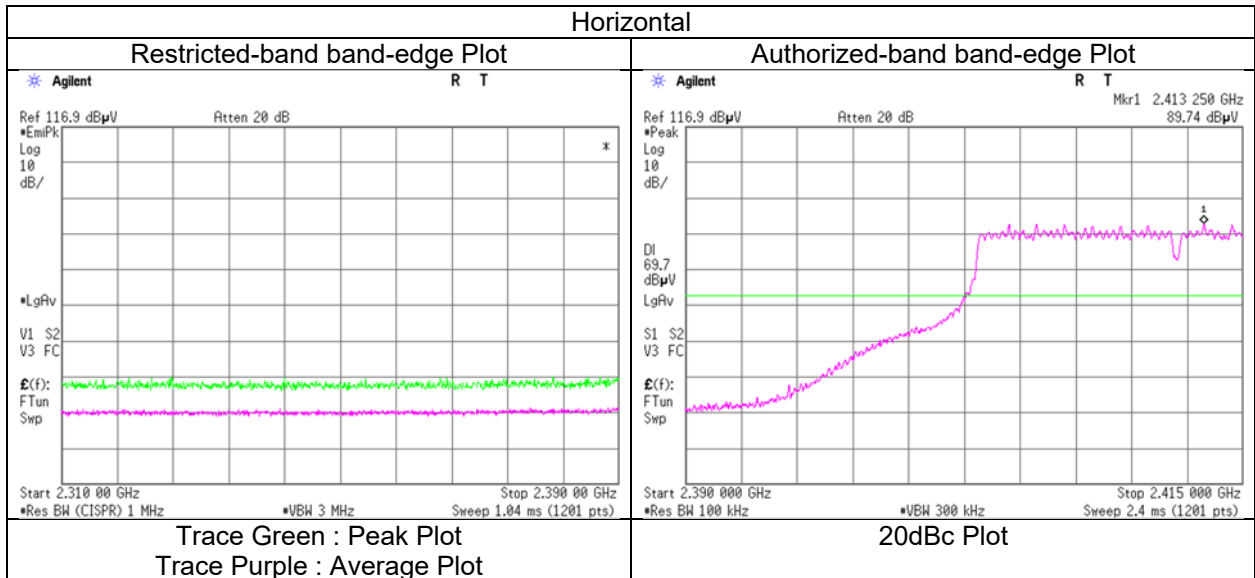
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Radiated Spurious Emission

Mode	Tx 11n-20 2412 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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 11n-20 2437 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.0	53.7	43.8	25.2	2.4	33.8	-	47.5	37.6	73.9	53.9	26.4	16.3	
Hori.	2504.0	56.4	55.4	27.4	3.1	33.2	-	53.7	52.7	73.9	53.9	20.2	1.2	
Hori.	4874.0	49.4	37.3	31.3	5.2	32.6	-	53.2	41.1	73.9	53.9	20.7	12.8	Floor noise
Hori.	7311.0	47.5	37.5	35.9	6.4	32.5	-	57.3	47.3	73.9	53.9	16.6	6.7	Floor noise
Hori.	7510.0	47.5	39.3	36.1	6.4	32.6	-	57.4	49.2	73.9	53.9	16.5	4.7	
Hori.	9748.0	50.2	35.2	38.7	7.1	33.2	-	62.8	47.8	73.9	53.9	11.1	6.1	Floor noise
Vert.	1584.0	63.4	50.4	25.2	2.4	33.8	-	57.2	44.2	73.9	53.9	16.7	9.7	
Vert.	2504.0	51.5	44.6	27.4	3.1	33.2	-	48.8	41.9	73.9	53.9	25.1	12.0	
Vert.	4874.0	47.6	37.6	31.3	5.2	32.6	-	51.4	41.4	73.9	53.9	22.5	12.5	Floor noise
Vert.	7311.0	48.1	37.4	35.9	6.4	32.5	-	57.9	47.2	73.9	53.9	16.0	6.7	Floor noise
Vert.	7510.0	48.6	40.2	36.1	6.4	32.6	-	58.5	50.1	73.9	53.9	15.4	3.8	
Vert.	9748.0	48.5	35.2	38.7	7.1	33.2	-	61.1	47.8	73.9	53.9	12.8	6.1	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

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

Radiated Spurious Emission

Mode	Tx 11n-20 2462 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.2	44.5	25.2	2.4	33.8	-	45.0	38.3	73.9	53.9	28.9	15.6	
Hori.	2483.5	45.0	36.3	27.4	3.1	33.2	-	42.3	33.6	73.9	53.9	31.6	20.3	
Hori.	2504.8	57.6	55.4	27.4	3.1	33.2	-	54.9	52.8	73.9	53.9	19.0	1.1	
Hori.	4924.0	43.4	35.3	31.3	4.4	32.6	-	46.6	38.5	73.9	53.9	27.3	15.4	Floor noise
Hori.	7386.0	43.5	35.4	36.0	6.4	32.5	-	53.4	45.3	73.9	53.9	20.5	8.6	Floor noise
Hori.	7514.4	48.2	40.2	36.1	6.4	32.6	-	58.1	50.1	73.9	53.9	15.8	3.8	
Hori.	9848.0	43.6	35.1	38.8	7.1	33.2	-	56.3	47.9	73.9	53.9	17.6	6.0	Floor noise
Vert.	1584.9	64.1	52.5	25.2	2.4	33.8	-	58.0	46.3	73.9	53.9	16.0	7.6	
Vert.	2483.5	48.0	38.2	27.4	3.1	33.2	-	45.3	35.5	73.9	53.9	28.6	18.4	
Vert.	2504.8	54.1	49.6	27.4	3.1	33.2	-	51.4	46.9	73.9	53.9	22.5	7.0	
Vert.	4924.0	42.3	35.3	31.3	5.2	32.6	-	46.2	39.2	73.9	53.9	27.7	14.7	Floor noise
Vert.	7386.0	43.3	35.4	36.0	6.4	32.5	-	53.2	45.3	73.9	53.9	20.7	8.6	Floor noise
Vert.	7514.4	45.8	37.5	36.1	6.4	32.6	-	55.7	47.4	73.9	53.9	18.2	6.5	
Vert.	9848.0	43.4	35.1	38.8	7.1	33.2	-	56.1	47.8	73.9	53.9	17.8	6.1	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

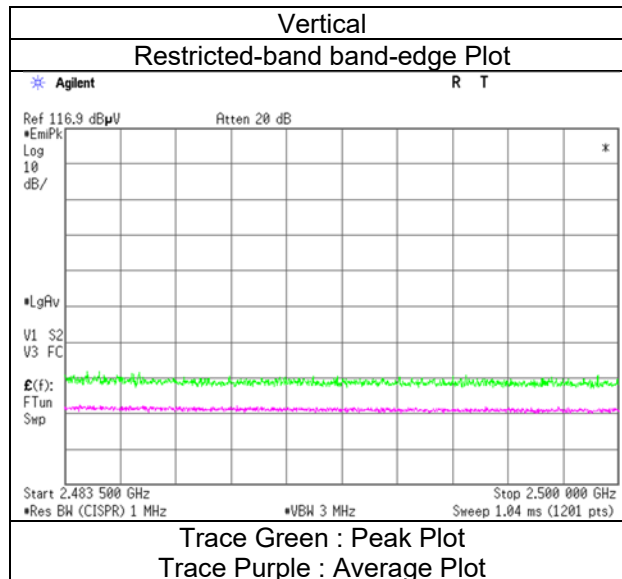
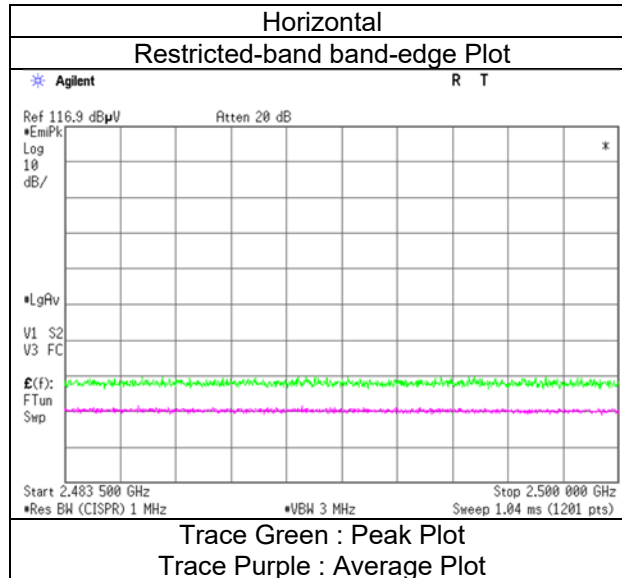
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 18 GHz - 26.5 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Mode	Tx 11n-20 2462 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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	11ax-20 2412 MHz OFDM
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 GHz
November 2, 2025	SAC4	22 deg. C	56 % RH	Takafumi Noguchi	Below 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.	79.0	48.3	-	6.9	7.5	32.1	-	30.6	-	40.0	-	9.4	-	
Hori.	187.2	36.0	-	16.5	8.4	32.0	-	28.9	-	43.5	-	14.6	-	
Hori.	239.2	37.8	-	11.5	8.9	32.0	-	26.1	-	46.0	-	19.9	-	
Hori.	481.7	26.1	-	17.2	10.4	32.2	-	21.4	-	46.0	-	24.6	-	
Hori.	792.4	36.0	-	20.5	11.8	31.8	-	36.5	-	46.0	-	9.5	-	
Hori.	811.0	35.5	-	20.6	11.9	31.7	-	36.3	-	46.0	-	9.7	-	
Hori.	1584.9	51.4	44.7	25.2	2.4	33.8	-	45.2	38.6	73.9	53.9	28.7	15.4	
Hori.	2390.0	52.3	37.4	27.6	3.0	33.2	-	49.6	34.8	73.9	53.9	24.3	19.1	
Hori.	2504.8	57.6	55.6	27.4	3.1	33.2	-	54.9	52.9	73.9	53.9	19.0	1.0	
Hori.	4824.0	42.5	35.4	31.2	5.2	32.6	-	46.3	39.2	73.9	53.9	27.6	14.7	Floor noise
Hori.	7236.0	43.6	35.4	35.8	6.4	32.5	-	53.3	45.1	73.9	53.9	20.6	8.8	Floor noise
Hori.	7514.4	48.3	40.5	36.1	6.4	32.6	-	58.2	50.4	73.9	53.9	15.7	3.5	
Hori.	9648.0	43.5	35.4	38.5	7.0	33.2	-	55.9	47.7	73.9	53.9	18.0	6.2	Floor noise
Vert.	79.0	45.2	-	6.9	7.5	32.1	-	27.5	-	40.0	-	12.5	-	
Vert.	187.2	29.2	-	16.5	8.4	32.0	-	22.1	-	43.5	-	21.4	-	
Vert.	239.2	33.1	-	11.5	8.9	32.0	-	21.4	-	46.0	-	24.6	-	
Vert.	481.7	32.6	-	17.2	10.4	32.2	-	27.9	-	46.0	-	18.1	-	
Vert.	792.4	31.5	-	20.5	11.8	31.8	-	32.0	-	46.0	-	14.0	-	
Vert.	811.0	32.2	-	20.6	11.9	31.7	-	33.0	-	46.0	-	13.0	-	
Vert.	1584.9	64.6	52.1	25.2	2.4	33.8	-	58.4	45.9	73.9	53.9	15.5	8.0	
Vert.	2390.0	50.7	39.6	27.6	3.0	33.2	-	48.1	36.9	73.9	53.9	25.8	17.0	
Vert.	2504.8	53.8	49.8	27.4	3.1	33.2	-	51.1	47.1	73.9	53.9	22.8	6.8	
Vert.	4824.0	42.7	35.2	31.2	5.2	32.6	-	46.5	39.0	73.9	53.9	27.4	14.9	Floor noise
Vert.	7236.0	43.6	35.5	35.8	6.4	32.5	-	53.3	45.2	73.9	53.9	20.6	8.7	Floor noise
Vert.	7514.4	45.4	35.6	36.1	6.4	32.6	-	55.3	45.5	73.9	53.9	18.6	8.4	
Vert.	9648.0	43.7	35.3	38.5	7.0	33.2	-	56.0	47.6	73.9	53.9	17.9	6.3	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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

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.	2412.0	89.4	27.5	3.0	33.2	86.8	-	-	Carrier
Hori.	2400.0	57.3	27.5	3.0	33.2	54.6	66.8	12.2	
Vert.	2412.0	94.2	27.5	3.0	33.2	91.6	-	-	Carrier
Vert.	2400.0	62.8	27.5	3.0	33.2	60.1	71.6	11.4	

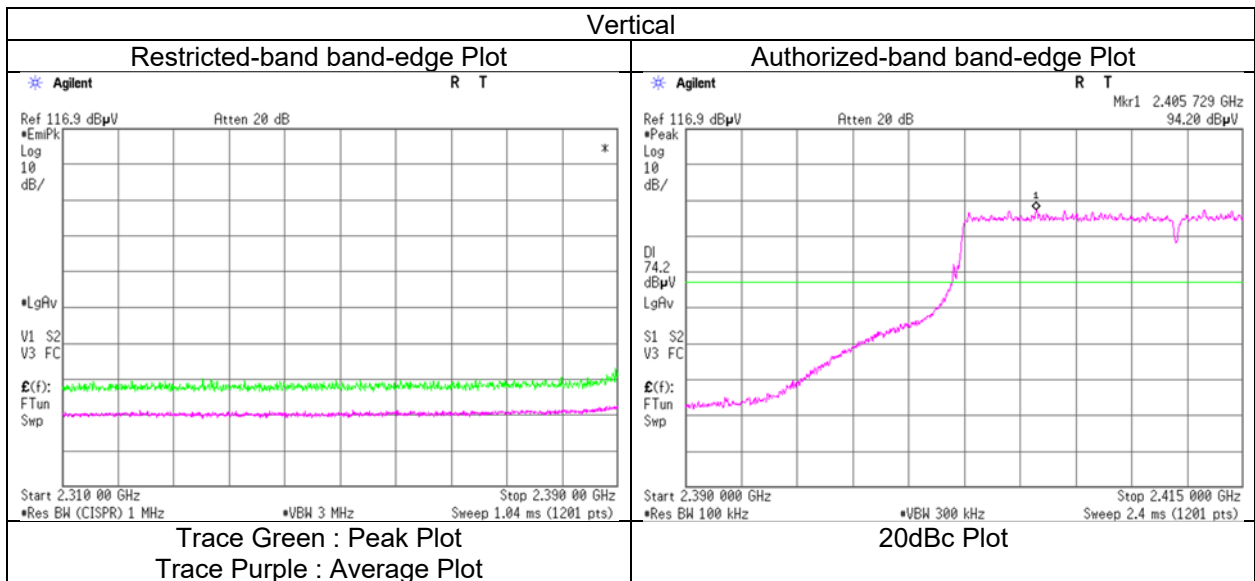
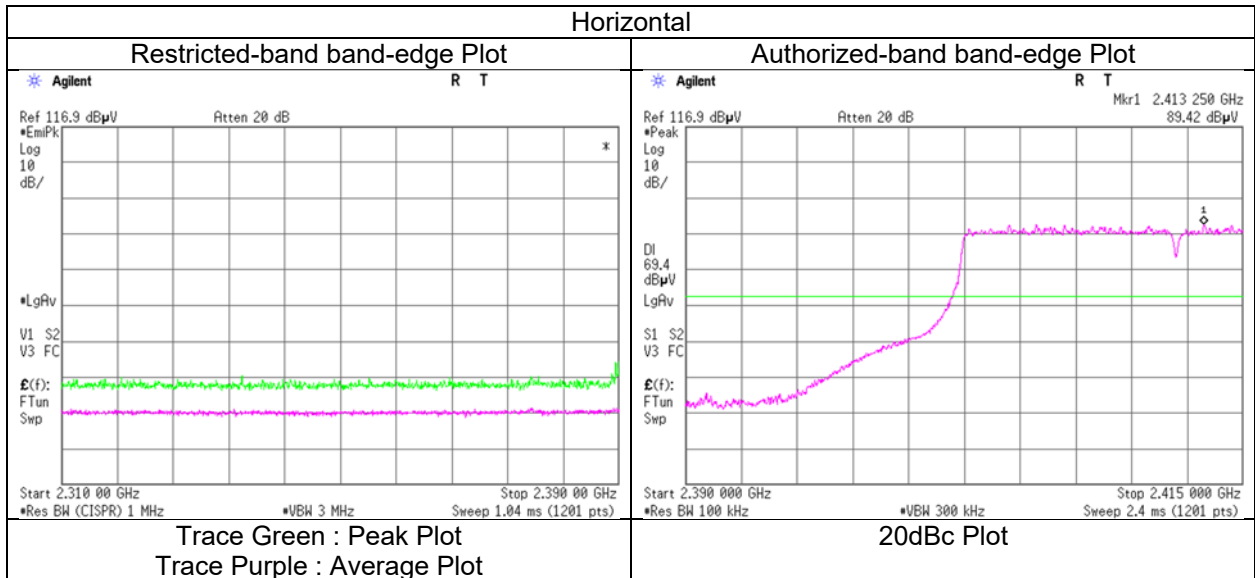
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Radiated Spurious Emission

Mode	11ax-20 OFDM 2412 MHz OFDM
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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 11ax-20 2437 MHz OFDM
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	24 deg. C	61 % RH	Yuta Moriya	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	56.1	42.9	25.2	2.4	33.8	-	49.9	36.8	73.9	53.9	24.0	17.2	
Hori.	2506.4	56.4	50.4	27.4	3.1	33.2	-	53.7	47.7	73.9	53.9	20.2	6.2	
Hori.	4874.0	43.6	35.3	31.3	5.2	32.6	-	47.4	39.1	73.9	53.9	26.5	14.8	Floor noise
Hori.	7311.0	43.2	35.2	35.9	6.4	32.5	-	53.0	45.0	73.9	53.9	20.9	8.9	Floor noise
Hori.	7509.7	45.8	37.6	36.1	6.4	32.6	-	55.7	47.5	73.9	53.9	18.2	6.4	
Hori.	9748.0	43.0	35.2	38.7	7.1	33.2	-	55.6	47.8	73.9	53.9	18.3	6.1	Floor noise
Vert.	1584.9	51.0	45.2	25.2	2.4	33.8	-	44.8	39.1	73.9	53.9	29.1	14.9	
Vert.	2506.4	55.5	50.3	27.4	3.1	33.2	-	52.8	47.6	73.9	53.9	21.1	6.3	
Vert.	4874.0	43.2	35.4	31.3	5.2	32.6	-	47.1	39.2	73.9	53.9	26.8	14.7	Floor noise
Vert.	7311.0	43.2	35.3	35.9	6.4	32.5	-	53.0	45.1	73.9	53.9	20.9	8.8	Floor noise
Vert.	7520.5	48.3	38.0	36.1	6.4	32.6	-	58.2	47.9	73.9	53.9	15.7	6.0	
Vert.	9748.0	44.6	34.3	38.7	7.1	33.2	-	57.2	46.9	73.9	53.9	16.7	7.0	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.

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

Radiated Spurious Emission

Mode	Tx 11ax-20 2462 MHz OFDM
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	24 deg. C	61 % RH	Yuta Moriya	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1585.7	50.8	43.9	25.2	2.4	33.8	-	44.7	37.7	73.9	53.9	29.2	16.2	
Hori.	2483.5	47.9	35.5	27.4	3.1	33.2	-	45.2	32.7	73.9	53.9	28.7	21.2	
Hori.	2503.5	56.8	50.6	27.4	3.1	33.2	-	54.1	47.9	73.9	53.9	19.8	6.0	
Hori.	4924.0	43.5	35.1	31.3	5.2	32.6	-	47.4	39.0	73.9	53.9	26.5	14.9	Floor noise
Hori.	7386.0	43.2	35.4	36.0	6.4	32.5	-	53.1	45.3	73.9	53.9	20.8	8.6	Floor noise
Hori.	7510.0	47.2	37.9	36.1	6.4	32.6	-	57.1	47.8	73.9	53.9	16.8	6.1	
Hori.	9848.0	43.9	35.1	38.8	7.1	33.2	-	56.7	47.8	73.9	53.9	17.2	6.1	Floor noise
Vert.	1585.7	62.2	50.0	25.2	2.4	33.8	-	56.0	43.8	73.9	53.9	17.9	10.1	
Vert.	2483.5	48.6	35.9	27.4	3.1	33.2	-	45.9	33.2	73.9	53.9	28.0	20.7	
Vert.	2503.5	54.8	49.9	27.4	3.1	33.2	-	52.1	47.2	73.9	53.9	21.8	6.7	
Vert.	4924.0	44.0	35.2	31.3	5.2	32.6	-	47.9	39.1	73.9	53.9	26.0	14.8	Floor noise
Vert.	7386.0	43.9	35.5	36.0	6.4	32.5	-	53.8	45.4	73.9	53.9	20.2	8.5	Floor noise
Vert.	7510.0	46.8	38.0	36.1	6.4	32.6	-	56.7	47.9	73.9	53.9	17.2	6.0	
Vert.	9848.0	47.9	35.1	38.8	7.1	33.2	-	60.6	47.8	73.9	53.9	13.3	6.1	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

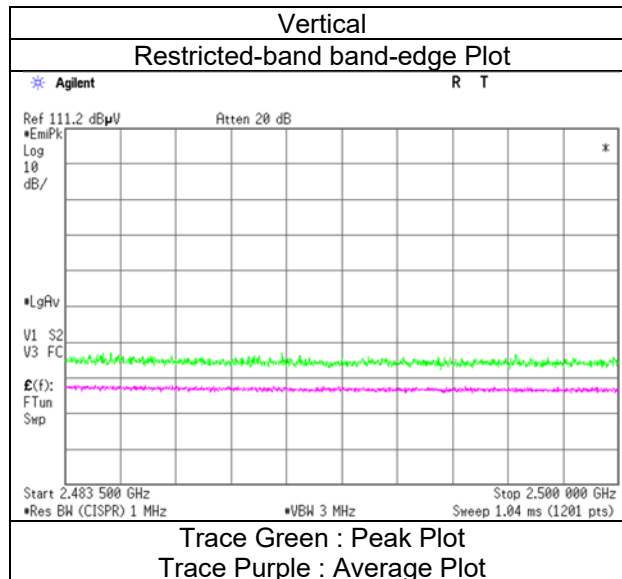
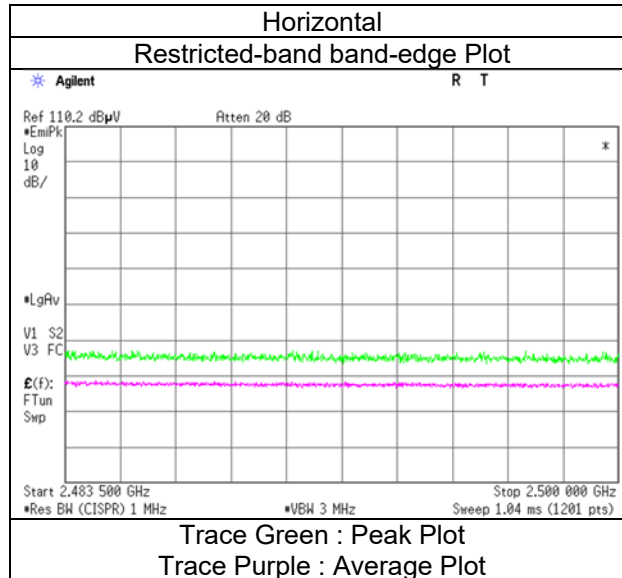
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 18 GHz - 26.5 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Mode	Tx 11ax-20 2462 MHz OFDM				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	24 deg. C	61 % RH	Yuta Moriya	1 GHz to 10 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 1M 2402 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.6	44.5	25.2	2.4	33.8	-	45.4	38.4	73.9	53.9	28.5	15.6	*1)
Hori.	2390.0	49.2	36.1	27.6	3.0	33.2	0.7	46.6	34.2	73.9	53.9	27.3	19.7	
Hori.	2504.8	57.7	55.8	27.4	3.1	33.2	-	55.0	53.1	73.9	53.9	18.9	0.8	
Hori.	4804.0	42.5	35.3	31.2	5.2	32.6	-	46.2	39.0	73.9	53.9	27.7	14.9	
Hori.	7206.0	43.6	35.6	35.8	6.4	32.5	-	53.3	45.3	73.9	53.9	20.7	8.6	
Hori.	7514.4	48.7	40.3	36.1	6.4	32.6	-	58.6	50.2	73.9	53.9	15.3	3.7	
Hori.	9608.0	43.5	35.3	38.4	7.0	33.2	-	55.7	47.5	73.9	53.9	18.2	6.4	Floor noise
Vert.	1584.9	64.8	52.3	25.2	2.4	33.8	-	58.6	46.2	73.9	53.9	15.3	7.7	*1)
Vert.	2390.0	52.3	37.6	27.6	3.0	33.2	0.7	49.7	35.7	73.9	53.9	24.3	18.2	
Vert.	2504.8	53.9	49.8	27.4	3.1	33.2	-	51.2	47.1	73.9	53.9	22.7	6.8	
Vert.	4804.0	42.7	35.2	31.2	5.2	32.6	-	46.4	38.9	73.9	53.9	27.5	15.0	
Vert.	7206.0	43.4	35.4	35.8	6.4	32.5	-	53.1	45.1	73.9	53.9	20.8	8.8	
Vert.	7514.4	45.3	35.4	36.1	6.4	32.6	-	55.2	45.3	73.9	53.9	18.7	8.6	
Vert.	9608.0	43.7	35.4	38.4	7.0	33.2	-	55.9	47.6	73.9	53.9	18.0	6.3	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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	95.1	27.5	3.0	33.2	92.5	-	-	Carrier
Hori.	2400.0	41.0	27.5	3.0	33.2	38.4	72.5	34.1	
Vert.	2402.0	98.6	27.5	3.0	33.2	96.0	-	-	Carrier
Vert.	2400.0	42.7	27.5	3.0	33.2	40.0	76.0	35.9	

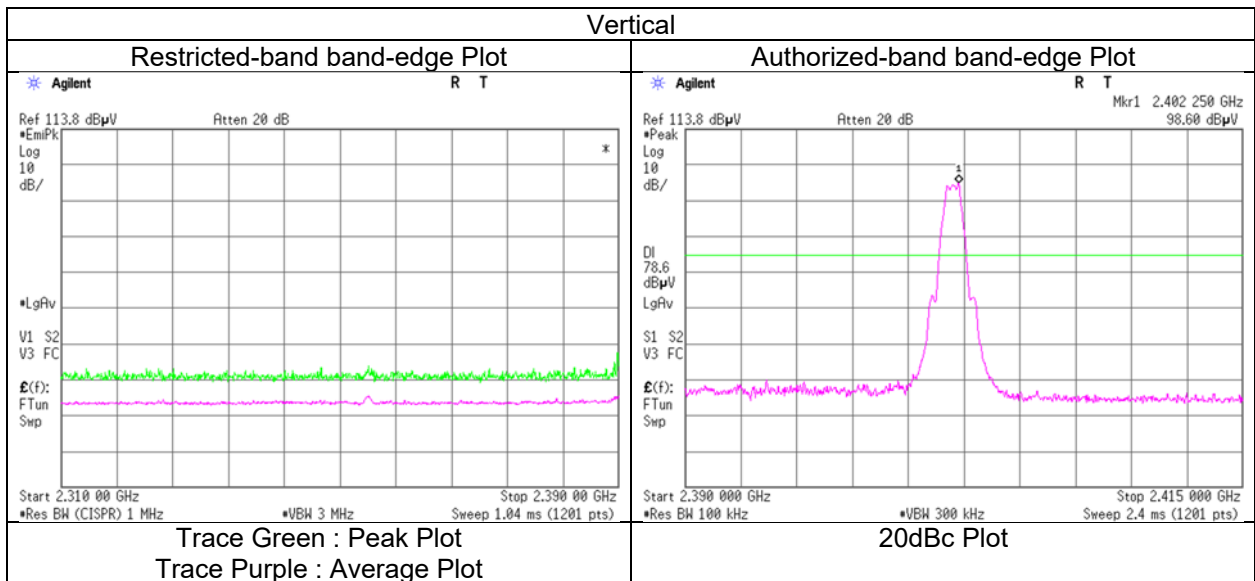
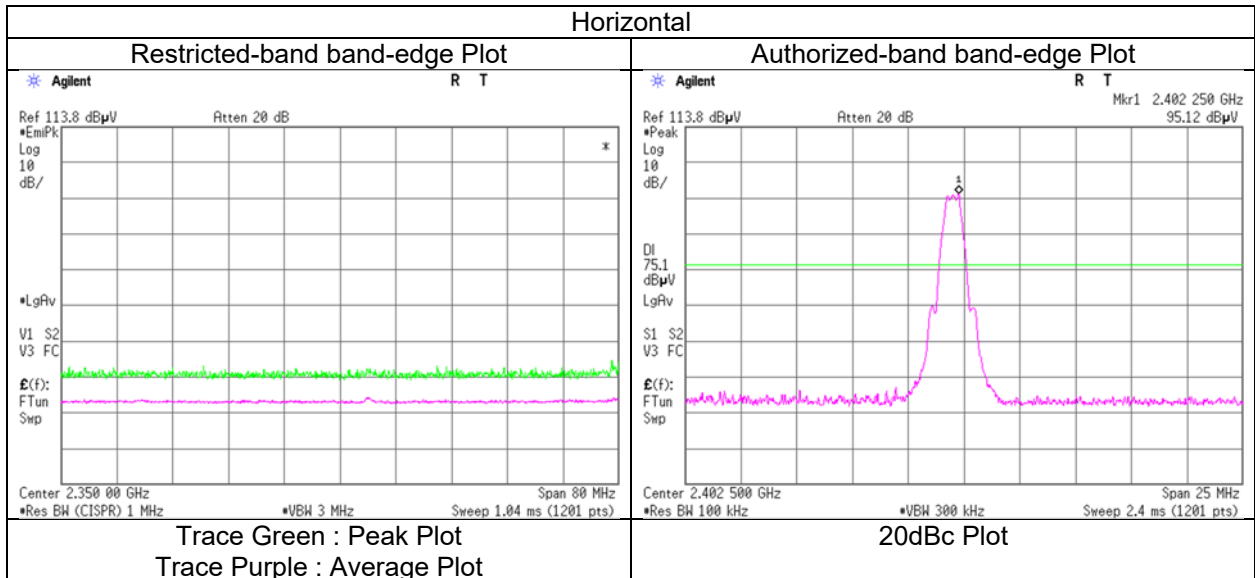
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Radiated Spurious Emission

Mode	Tx BT LE 1M 2402 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 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 1M 2440 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.0	53.9	44.2	25.2	2.4	33.8	-	47.7	38.0	73.9	53.9	26.2	15.9	
Hori.	2504.0	56.6	55.3	27.4	3.1	33.2	-	53.9	52.6	73.9	53.9	20.0	1.3	
Hori.	4880.0	49.2	37.3	31.3	4.4	32.6	-	52.3	40.4	73.9	53.9	21.6	13.5	Floor noise
Hori.	7320.0	47.5	37.7	35.9	5.6	32.5	-	56.5	46.7	73.9	53.9	17.4	7.2	Floor noise
Hori.	7510.0	47.7	39.2	36.1	5.7	32.6	-	56.9	48.4	73.9	53.9	17.0	5.5	
Hori.	9760.0	50.3	35.1	38.8	6.5	33.2	-	62.4	47.2	73.9	53.9	11.5	6.7	Floor noise
Vert.	1584.0	63.5	50.7	25.2	2.4	33.8	-	57.3	44.5	73.9	53.9	16.6	9.4	
Vert.	2504.0	51.3	44.6	27.4	3.1	33.2	-	48.7	41.9	73.9	53.9	25.3	12.0	
Vert.	4880.0	47.5	37.5	31.3	4.4	32.6	-	50.5	40.6	73.9	53.9	23.4	13.3	Floor noise
Vert.	7320.0	48.1	37.6	35.9	5.6	32.5	-	57.1	46.6	73.9	53.9	16.8	7.3	Floor noise
Vert.	7510.0	48.5	40.2	36.1	5.7	32.6	-	57.7	49.4	73.9	53.9	16.2	4.5	
Vert.	9760.0	48.5	35.3	38.8	6.5	33.2	-	60.6	47.4	73.9	53.9	13.3	6.5	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

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

Radiated Spurious Emission

Mode	Tx BT LE 1M 2480 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.3	44.7	25.2	2.4	33.8	-	45.1	38.5	73.9	53.9	28.8	15.4	*1)
Hori.	2483.5	49.8	36.4	27.4	3.1	33.2	0.7	47.1	34.4	73.9	53.9	26.8	19.5	
Hori.	2504.8	57.5	55.7	27.4	3.1	33.2	-	54.8	53.0	73.9	53.9	19.1	0.9	
Hori.	4960.0	43.2	35.4	31.4	5.2	32.6	-	47.2	39.4	73.9	53.9	26.7	14.5	Floor noise
Hori.	7440.0	43.2	35.5	36.1	6.4	32.5	-	53.2	45.4	73.9	53.9	20.7	8.5	Floor noise
Hori.	7514.4	48.2	40.4	36.1	6.4	32.6	-	58.1	50.3	73.9	53.9	15.8	3.6	
Hori.	9920.0	43.6	35.2	38.9	7.1	33.2	-	56.4	48.0	73.9	53.9	17.5	5.9	Floor noise
Vert.	1584.9	64.5	52.5	25.2	2.4	33.8	-	58.3	46.3	73.9	53.9	15.6	7.6	*1)
Vert.	2483.5	48.4	36.2	27.4	3.1	33.2	0.7	45.7	34.3	73.9	53.9	28.2	19.7	
Vert.	2504.8	54.2	49.6	27.4	3.1	33.2	-	51.5	46.9	73.9	53.9	22.4	7.0	
Vert.	4960.0	42.7	35.3	31.4	5.2	32.6	-	46.7	39.3	73.9	53.9	27.2	14.6	Floor noise
Vert.	7440.0	43.4	35.3	36.1	6.4	32.5	-	53.4	45.3	73.9	53.9	20.5	8.6	Floor noise
Vert.	7514.4	45.4	37.5	36.1	6.4	32.6	-	55.3	47.4	73.9	53.9	18.6	6.5	
Vert.	9920.0	43.4	35.0	38.9	7.1	33.2	-	56.2	47.8	73.9	53.9	17.7	6.1	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

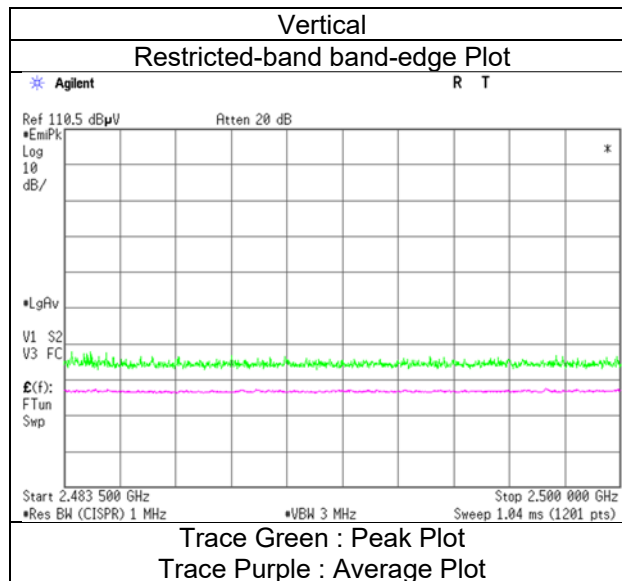
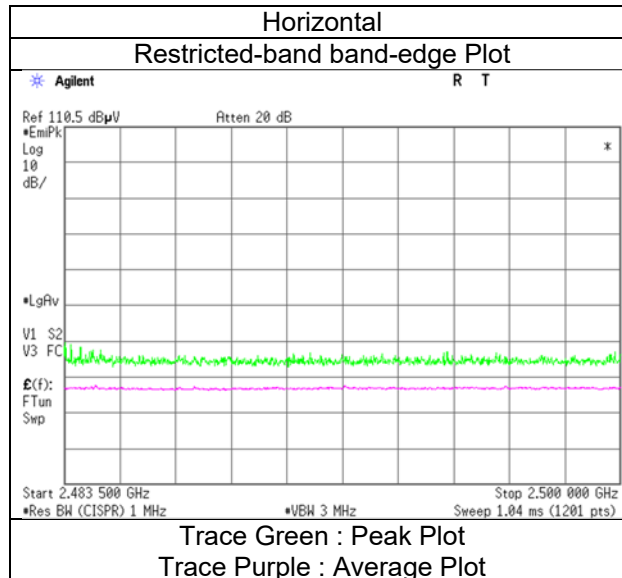
*1) Not Out of Band emission(Leakage Power)

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

Radiated Spurious Emission

Mode	Tx BT LE 1M 2480 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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 2M 2402 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 GHz
November 2, 2025	SAC4	22 deg. C	56 % RH	Takafumi Noguchi	Below 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.	79.0	48.5	-	6.9	7.5	32.1	-	30.8	-	40.0	-	9.2	-	
Hori.	187.2	36.5	-	16.5	8.4	32.0	-	29.4	-	43.5	-	14.1	-	
Hori.	239.2	38.0	-	11.5	8.9	32.0	-	26.3	-	46.0	-	19.7	-	
Hori.	481.7	26.0	-	17.2	10.4	32.2	-	21.3	-	46.0	-	24.7	-	
Hori.	792.4	35.3	-	20.5	11.8	31.8	-	35.8	-	46.0	-	10.2	-	
Hori.	811.0	35.3	-	20.6	11.9	31.7	-	36.1	-	46.0	-	9.9	-	
Hori.	1584.9	51.5	44.5	25.2	2.4	33.8	-	45.3	38.4	73.9	53.9	28.6	15.6	
Hori.	2390.0	49.5	36.0	27.6	3.0	33.2	2.5	46.9	35.8	73.9	53.9	27.0	18.1	*1)
Hori.	2504.8	57.7	55.4	27.4	3.1	33.2	-	55.0	52.8	73.9	53.9	18.9	1.1	
Hori.	4804.0	42.5	35.4	31.2	5.2	32.6	-	46.2	39.1	73.9	53.9	27.7	14.8	Floor noise
Hori.	7206.0	43.5	35.4	35.8	6.4	32.5	-	53.2	45.1	73.9	53.9	20.8	8.8	Floor noise
Hori.	7514.4	48.6	40.3	36.1	6.4	32.6	-	58.5	50.2	73.9	53.9	15.4	3.7	
Hori.	9608.0	43.5	35.2	38.4	7.0	33.2	-	55.7	47.4	73.9	53.9	18.2	6.5	Floor noise
Vert.	79.0	44.3	-	6.9	7.5	32.1	-	26.6	-	40.0	-	13.4	-	
Vert.	187.2	30.7	-	16.5	8.4	32.0	-	23.6	-	43.5	-	19.9	-	
Vert.	239.2	33.8	-	11.5	8.9	32.0	-	22.1	-	46.0	-	23.9	-	
Vert.	481.7	32.9	-	17.2	10.4	32.2	-	28.2	-	46.0	-	17.8	-	
Vert.	792.4	31.5	-	20.5	11.8	31.8	-	32.0	-	46.0	-	14.0	-	
Vert.	811.0	32.3	-	20.6	11.9	31.7	-	33.1	-	46.0	-	12.9	-	
Vert.	1584.9	64.9	52.2	25.2	2.4	33.8	-	58.7	46.0	73.9	53.9	15.2	7.9	
Vert.	2390.0	52.0	37.2	27.6	3.0	33.2	2.5	49.4	37.1	73.9	53.9	24.5	16.8	*1)
Vert.	2504.8	53.9	49.7	27.4	3.1	33.2	-	51.2	47.0	73.9	53.9	22.7	6.9	
Vert.	4804.0	42.8	35.4	31.2	5.2	32.6	-	46.5	39.1	73.9	53.9	27.4	14.8	Floor noise
Vert.	7206.0	43.4	35.6	35.8	6.4	32.5	-	53.1	45.2	73.9	53.9	20.8	8.7	Floor noise
Vert.	7514.4	45.3	35.4	36.1	6.4	32.6	-	55.2	45.3	73.9	53.9	18.7	8.6	
Vert.	9608.0	43.8	35.3	38.4	7.0	33.2	-	56.0	47.5	73.9	53.9	17.9	6.4	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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	33.2	92.8	-	-	Carrier
Hori.	2400.0	49.7	27.5	3.0	33.2	47.0	72.8	25.8	
Vert.	2402.0	98.2	27.5	3.0	33.2	95.6	-	-	Carrier
Vert.	2400.0	51.9	27.5	3.0	33.2	49.2	75.6	26.3	

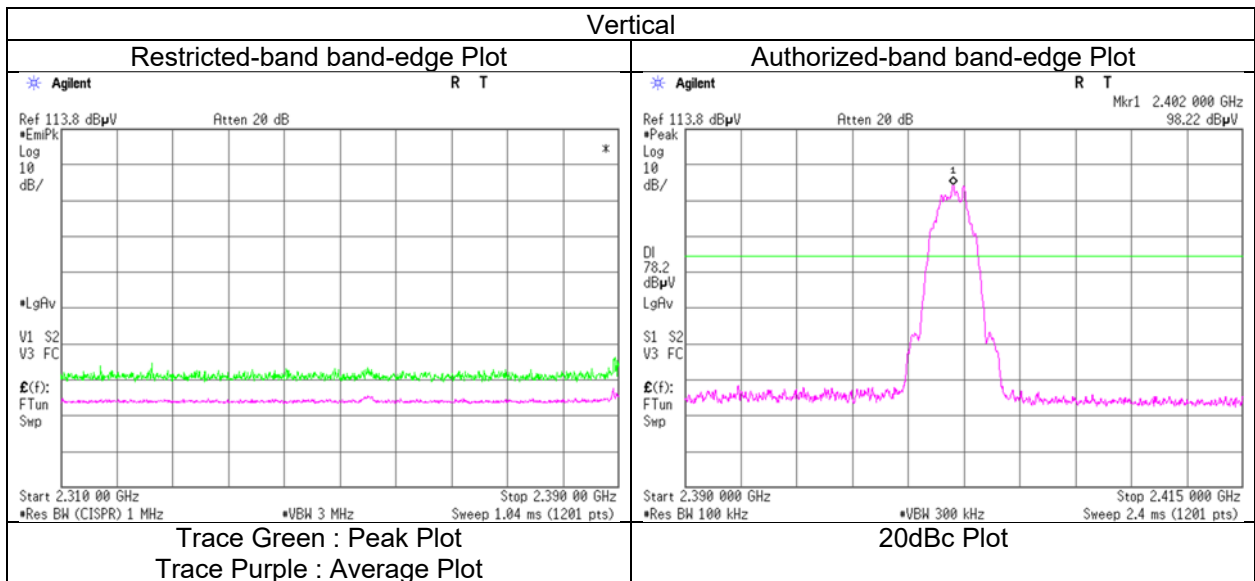
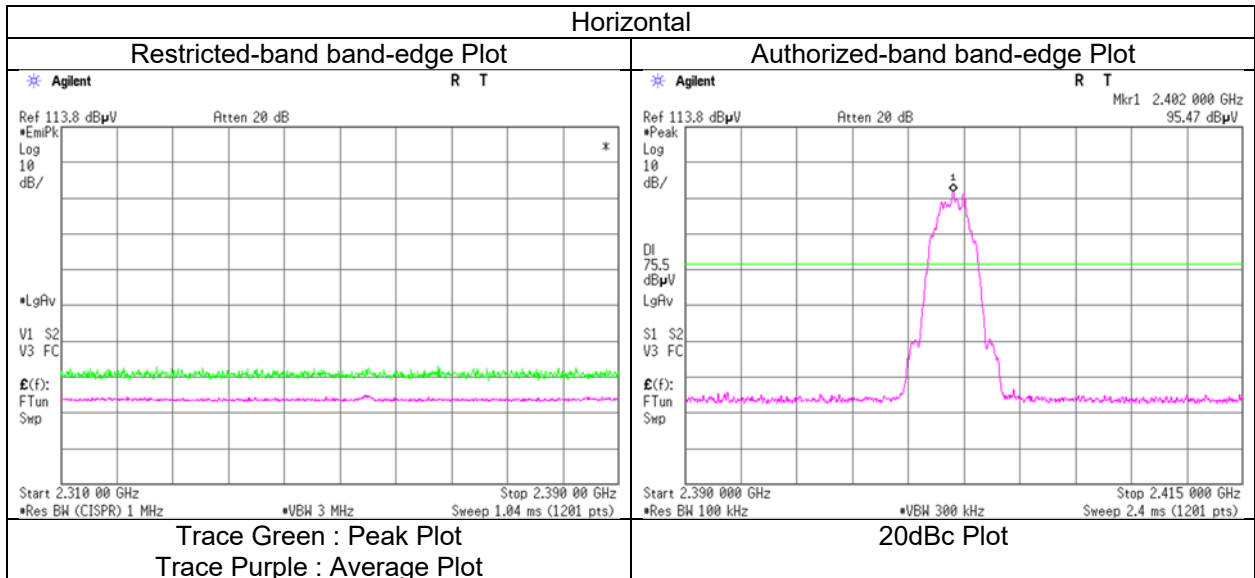
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Radiated Spurious Emission

Mode	Tx BT LE 2M 2402 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 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 2M 2440 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.0	54.0	44.1	25.2	2.4	33.8	-	47.8	37.9	73.9	53.9	26.1	16.0	
Hori.	2504.0	56.5	55.4	27.4	3.1	33.2	-	53.8	52.8	73.9	53.9	20.1	1.1	
Hori.	4880.0	49.2	37.4	31.3	5.2	32.6	-	53.0	41.2	73.9	53.9	20.9	12.7	Floor noise
Hori.	7320.0	47.5	37.5	35.9	6.4	32.5	-	57.3	47.3	73.9	53.9	16.6	6.6	Floor noise
Hori.	7510.0	47.6	39.3	36.1	6.4	32.6	-	57.5	49.2	73.9	53.9	16.4	4.7	
Hori.	9760.0	50.1	35.2	38.8	7.1	33.2	-	62.7	47.9	73.9	53.9	11.2	6.0	Floor noise
Vert.	1584.0	63.4	50.7	25.2	2.4	33.8	-	57.2	44.5	73.9	53.9	16.7	9.4	
Vert.	2504.0	51.5	44.7	27.4	3.1	33.2	-	48.8	42.0	73.9	53.9	25.1	11.9	
Vert.	4880.0	47.5	37.5	31.3	5.2	32.6	-	51.4	41.3	73.9	53.9	22.6	12.6	Floor noise
Vert.	7320.0	48.1	37.5	35.9	6.4	32.5	-	57.9	47.3	73.9	53.9	16.0	6.6	Floor noise
Vert.	7510.0	48.5	40.4	36.1	6.4	32.6	-	58.4	50.3	73.9	53.9	15.5	3.6	
Vert.	9760.0	48.6	35.1	38.8	7.1	33.2	-	61.2	47.7	73.9	53.9	12.7	6.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

Distance factor: 18 GHz - 26.5 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Mode	Tx BT LE 2M 2480 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 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.	1584.9	51.4	44.4	25.2	2.4	33.8	-	45.2	38.2	73.9	53.9	28.7	15.7	*1)
Hori.	2483.5	49.8	36.4	27.4	3.1	33.2	2.5	47.1	36.1	73.9	53.9	26.8	17.8	
Hori.	2504.8	57.6	55.5	27.4	3.1	33.2	-	54.9	52.8	73.9	53.9	19.0	1.1	
Hori.	4960.0	43.2	35.3	31.4	5.2	32.6	-	47.2	39.3	73.9	53.9	26.7	14.6	Floor noise
Hori.	7440.0	43.4	35.7	36.1	6.4	32.5	-	53.4	45.6	73.9	53.9	20.5	8.3	Floor noise
Hori.	7514.4	48.0	40.6	36.1	6.4	32.6	-	57.9	50.5	73.9	53.9	16.0	3.4	
Hori.	9920.0	43.6	35.3	38.9	7.1	33.2	-	56.4	48.1	73.9	53.9	17.5	5.8	Floor noise
Vert.	1584.9	64.3	52.6	25.2	2.4	33.8	-	58.1	46.4	73.9	53.9	15.8	7.5	*1)
Vert.	2483.5	48.0	36.3	27.4	3.1	33.2	2.5	45.3	36.1	73.9	53.9	28.6	17.8	
Vert.	2504.8	54.2	49.5	27.4	3.1	33.2	-	51.5	46.8	73.9	53.9	22.4	7.1	
Vert.	4960.0	42.7	35.4	31.4	5.2	32.6	-	46.7	39.4	73.9	53.9	27.2	14.5	Floor noise
Vert.	7440.0	43.2	35.3	36.1	6.4	32.5	-	53.2	45.3	73.9	53.9	20.7	8.6	Floor noise
Vert.	7514.4	45.5	37.6	36.1	6.4	32.6	-	55.4	47.5	73.9	53.9	18.5	6.5	
Vert.	9920.0	43.4	35.1	38.9	7.1	33.2	-	56.2	47.9	73.9	53.9	17.7	6.0	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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.

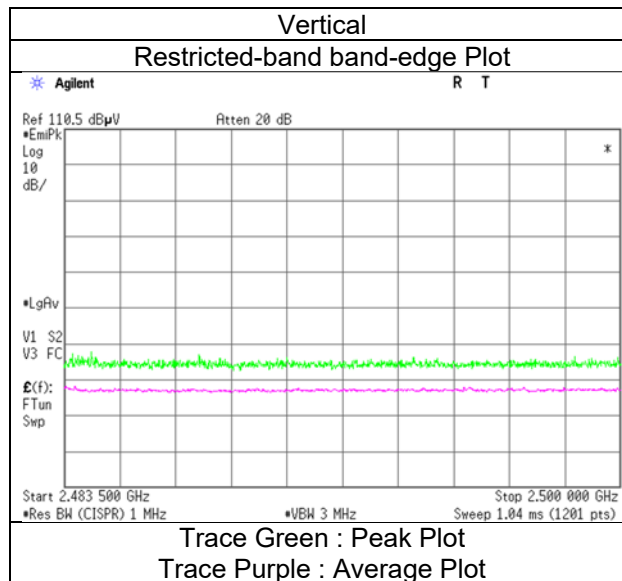
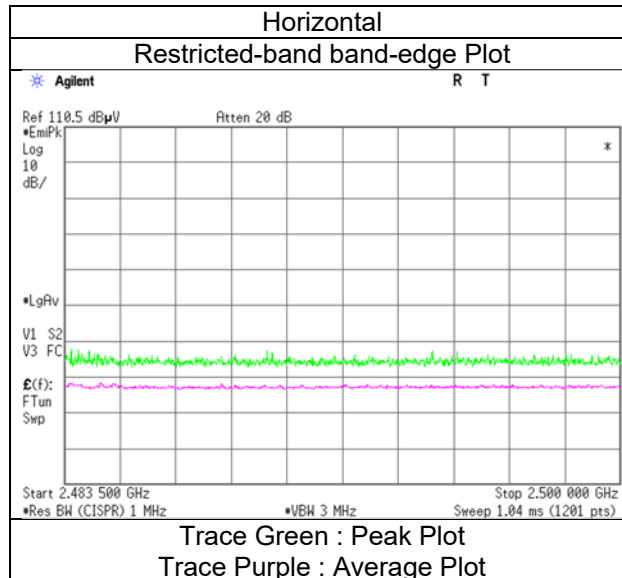
*1) Not Out of Band emission(Leakage Power)

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

Radiated Spurious Emission

Mode	Tx BT LE 2M 2480 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 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 2M 2402 MHz + 11ax-20 5220 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
November 4, 2025	SAC4	20 deg. C	44 % RH	Junya Okuno	Below 1 GHz
November 9, 2025	SAC3	23 deg. C	49 % RH	Tomoya Sone	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.	79.0	45.1	-	7.0	7.5	32.1	-	27.4	-	40.0	-	12.6	-	
Hori.	187.2	35.3	-	16.5	8.4	32.0	-	28.2	-	43.5	-	15.3	-	
Hori.	292.1	33.3	-	13.5	9.4	32.0	-	24.2	-	46.0	-	21.8	-	
Hori.	486.1	25.8	-	17.3	10.4	32.2	-	21.3	-	46.0	-	24.7	-	
Hori.	792.5	32.5	-	20.5	11.8	31.8	-	33.0	-	46.0	-	13.0	-	
Hori.	811.0	34.9	-	20.6	11.9	31.7	-	35.7	-	46.0	-	10.3	-	
Hori.	1584.9	50.4	43.8	24.9	2.4	33.2	-	44.6	38.0	73.9	53.9	29.4	15.9	
Hori.	2390.0	45.5	31.6	27.8	3.0	32.0	2.5	44.3	32.8	73.9	53.9	29.6	21.1	*1)
Hori.	2504.8	53.1	48.9	27.7	3.1	32.0	-	51.9	47.7	73.9	53.9	22.0	6.2	
Hori.	4804.0	41.4	32.1	31.5	5.2	30.9	-	47.2	37.8	73.9	53.9	26.7	16.1	Floor noise
Hori.	7206.0	43.2	33.2	36.3	6.4	31.9	-	53.9	43.9	73.9	53.9	20.0	10.0	Floor noise
Hori.	7514.4	46.9	39.0	36.6	6.3	32.0	-	57.8	49.9	73.9	53.9	16.1	4.0	
Hori.	9608.0	42.9	33.6	38.1	6.8	32.4	-	55.5	46.2	73.9	53.9	18.4	7.7	Floor noise
Vert.	79.0	44.2	-	7.0	7.5	32.1	-	26.5	-	40.0	-	13.5	-	
Vert.	187.2	29.6	-	16.5	8.4	32.0	-	22.5	-	43.5	-	21.0	-	
Vert.	292.1	29.2	-	13.5	9.4	32.0	-	20.1	-	46.0	-	25.9	-	
Vert.	486.1	31.1	-	17.3	10.4	32.2	-	26.6	-	46.0	-	19.4	-	
Vert.	792.5	29.8	-	20.5	11.8	31.8	-	30.3	-	46.0	-	15.7	-	
Vert.	811.0	36.5	-	20.6	11.9	31.7	-	37.3	-	46.0	-	8.7	-	
Vert.	1584.9	62.7	50.8	24.9	2.4	33.2	-	56.9	45.0	73.9	53.9	17.0	8.9	
Vert.	2390.0	49.3	34.6	27.8	3.0	32.0	2.5	48.1	35.9	73.9	53.9	25.8	18.0	*1)
Vert.	2504.8	51.7	47.6	27.7	3.1	32.0	-	50.6	46.4	73.9	53.9	23.3	7.5	
Vert.	4804.0	41.7	32.3	31.5	5.2	30.9	-	47.5	38.0	73.9	53.9	26.4	15.9	Floor noise
Vert.	7206.0	43.4	33.4	36.3	6.4	31.9	-	54.1	44.1	73.9	53.9	19.8	9.8	Floor noise
Vert.	7514.4	44.5	36.0	36.6	6.3	32.0	-	55.4	46.9	73.9	53.9	18.5	7.0	
Vert.	9608.0	43.1	33.2	38.1	6.8	32.4	-	55.7	45.7	73.9	53.9	18.2	8.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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	93.1	27.8	3.0	32.0	91.9	-	-	Carrier
Hori.	2400.0	47.1	27.8	3.0	32.0	45.9	71.9	26.0	
Vert.	2402.0	96.3	27.8	3.0	32.0	95.1	-	-	Carrier
Vert.	2400.0	49.9	27.8	3.0	32.0	48.7	75.1	26.4	

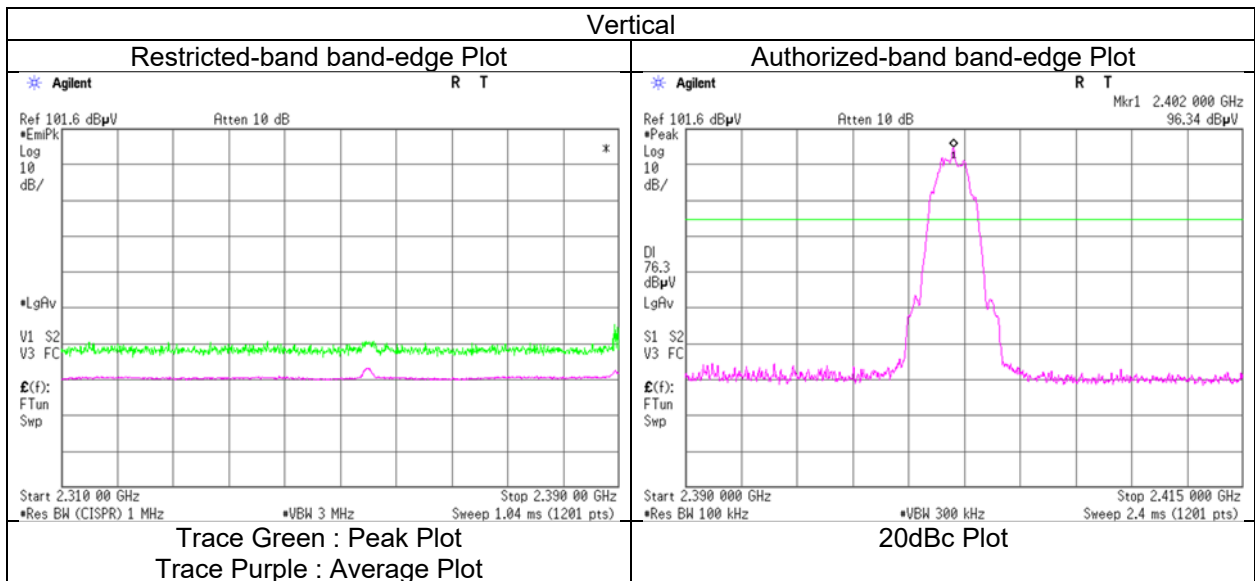
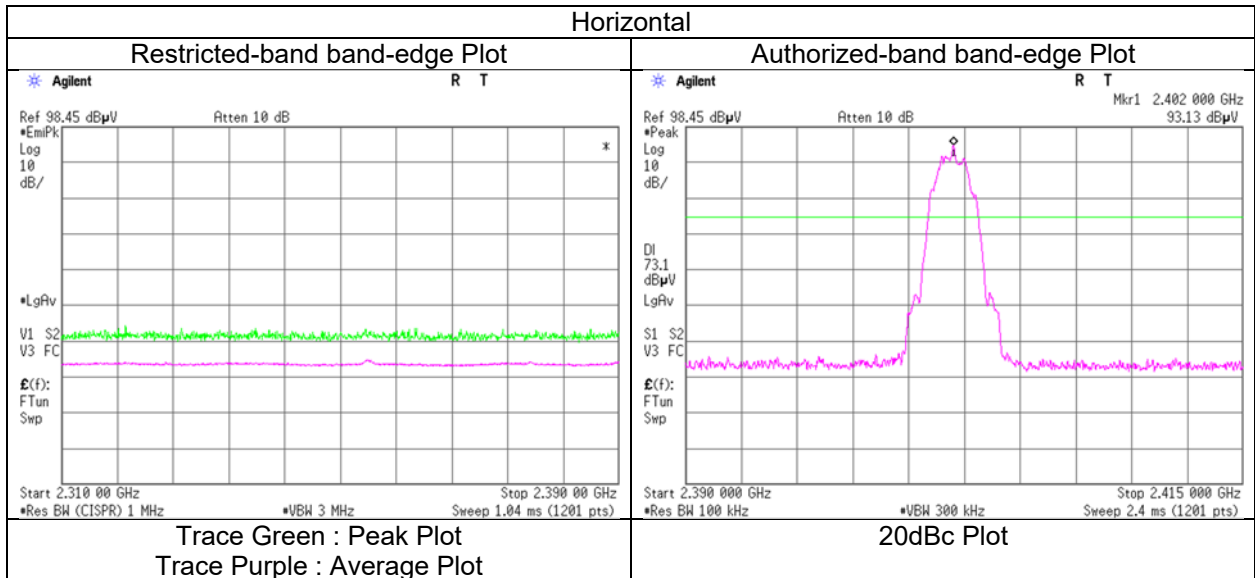
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Radiated Spurious Emission

Mode	Tx BT LE 2M 2402 MHz + 11ax-20 5220 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
November 9, 2025	SAC3	23 deg. C	49 % RH	Tomoya Sone	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 11ax-20(OFDM) 2412 MHz + 11ax-20(OFDM) 5220 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 24, 2026	SAC4	23 deg. C	36 % RH	Nachi Konegawa	Above 1 GHz
March 25, 2026	SAC4	18 deg. C	45 % RH	Yuichiro Yamazaki	Below 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.	79.0	46.0	-	7.0	7.7	32.1	-	28.5	-	40.0	-	11.5	-	
Hori.	93.6	45.0	-	9.3	7.8	32.1	-	30.0	-	43.5	-	13.5	-	
Hori.	359.4	41.5	-	15.2	9.9	32.1	-	34.4	-	46.0	-	11.6	-	
Hori.	370.9	49.2	-	15.2	9.9	32.1	-	42.2	-	46.0	-	3.8	-	
Hori.	792.4	32.8	-	20.8	11.8	31.8	-	33.6	-	46.0	-	12.4	-	
Hori.	839.9	32.3	-	21.1	11.9	31.5	-	33.9	-	46.0	-	12.1	-	
Hori.	1584.9	58.3	46.5	24.9	2.4	33.3	-	52.3	40.5	73.9	53.9	21.6	13.4	
Hori.	2390.0	44.9	35.3	27.8	3.0	31.9	-	43.7	34.2	73.9	53.9	30.2	19.7	
Hori.	2504.8	52.8	49.7	27.7	3.1	31.9	-	51.7	48.7	73.9	53.9	22.2	5.2	
Hori.	4824.0	40.7	32.2	31.5	5.2	30.9	-	46.4	38.0	73.9	53.9	27.5	16.0	Floor noise
Hori.	7236.0	42.3	34.0	36.3	6.3	32.2	-	52.7	44.3	73.9	53.9	21.2	9.6	Floor noise
Hori.	7546.7	49.4	39.6	36.5	6.4	32.4	-	59.8	50.0	73.9	53.9	14.1	3.9	
Hori.	9648.0	42.9	33.6	38.2	7.1	32.4	-	55.8	46.5	73.9	53.9	18.1	7.4	Floor noise
Vert.	79.0	44.0	-	7.0	7.7	32.1	-	26.5	-	40.0	-	13.5	-	
Vert.	93.6	40.2	-	9.3	7.8	32.1	-	25.2	-	43.5	-	18.3	-	
Vert.	370.9	40.5	-	15.2	9.9	32.1	-	33.5	-	46.0	-	12.5	-	
Vert.	589.8	32.9	-	18.9	10.9	32.3	-	30.4	-	46.0	-	15.6	-	
Vert.	792.4	28.1	-	20.8	11.8	31.8	-	28.9	-	46.0	-	17.1	-	
Vert.	839.9	31.5	-	21.1	11.9	31.5	-	33.1	-	46.0	-	12.9	-	
Vert.	1584.9	64.4	48.8	24.9	2.4	33.3	-	58.4	42.9	73.9	53.9	15.5	11.1	
Vert.	2390.0	45.0	35.6	27.8	3.0	31.9	-	43.9	34.5	73.9	53.9	30.0	19.4	
Vert.	2504.8	51.7	48.5	27.7	3.1	31.9	-	50.7	47.4	73.9	53.9	23.2	6.5	
Vert.	4824.0	40.7	32.2	31.5	5.2	30.9	-	46.5	37.9	73.9	53.9	27.4	16.0	Floor noise
Vert.	7236.0	42.4	34.0	36.3	6.3	32.2	-	52.7	44.4	73.9	53.9	21.2	9.5	Floor noise
Vert.	7546.7	45.3	35.1	36.5	6.4	32.4	-	55.7	45.6	73.9	53.9	18.2	8.3	
Vert.	9648.0	43.0	33.5	38.2	7.1	32.4	-	55.9	46.4	73.9	53.9	18.1	7.5	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.

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.	2412.0	88.4	27.8	3.0	31.9	87.3	-	-	Carrier
Hori.	2400.0	57.2	27.8	3.0	31.9	56.1	67.3	11.2	
Vert.	2412.0	90.9	27.8	3.0	31.9	89.7	-	-	Carrier
Vert.	2400.0	58.5	27.8	3.0	31.9	57.3	69.7	12.4	

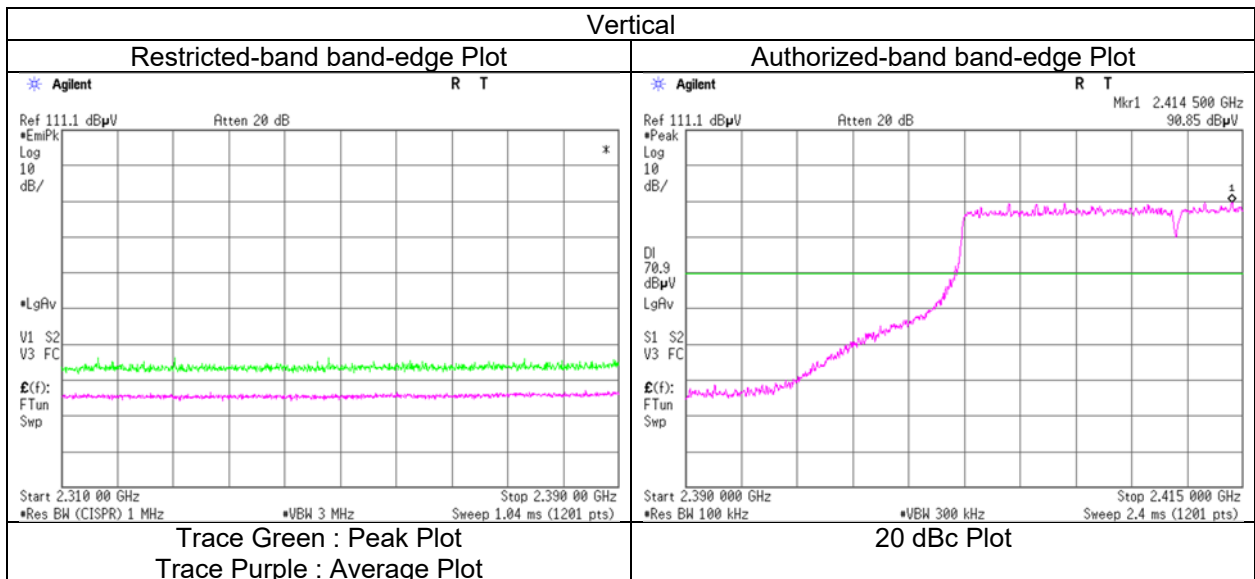
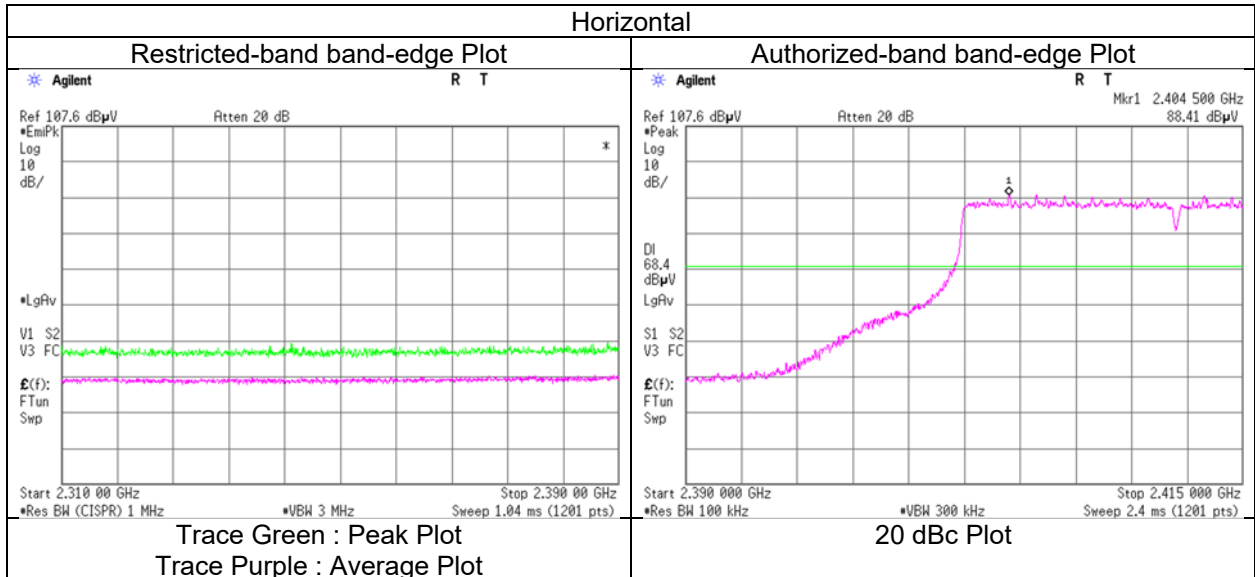
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

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

Radiated Spurious Emission

Mode	Tx 11ax-20(OFDM) 2412 MHz + 11ax-20(OFDM) 5220 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 24, 2026	SAC4	23 deg. C	36 % RH	Nachi Konegawa	Above 1 GHz

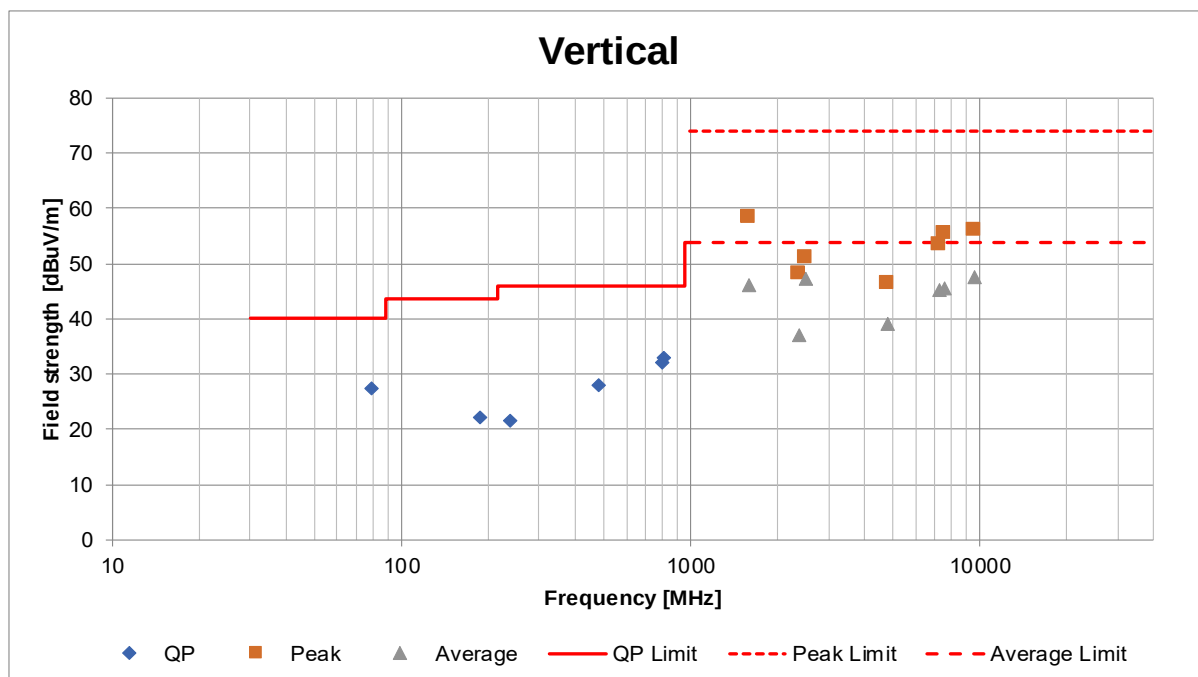
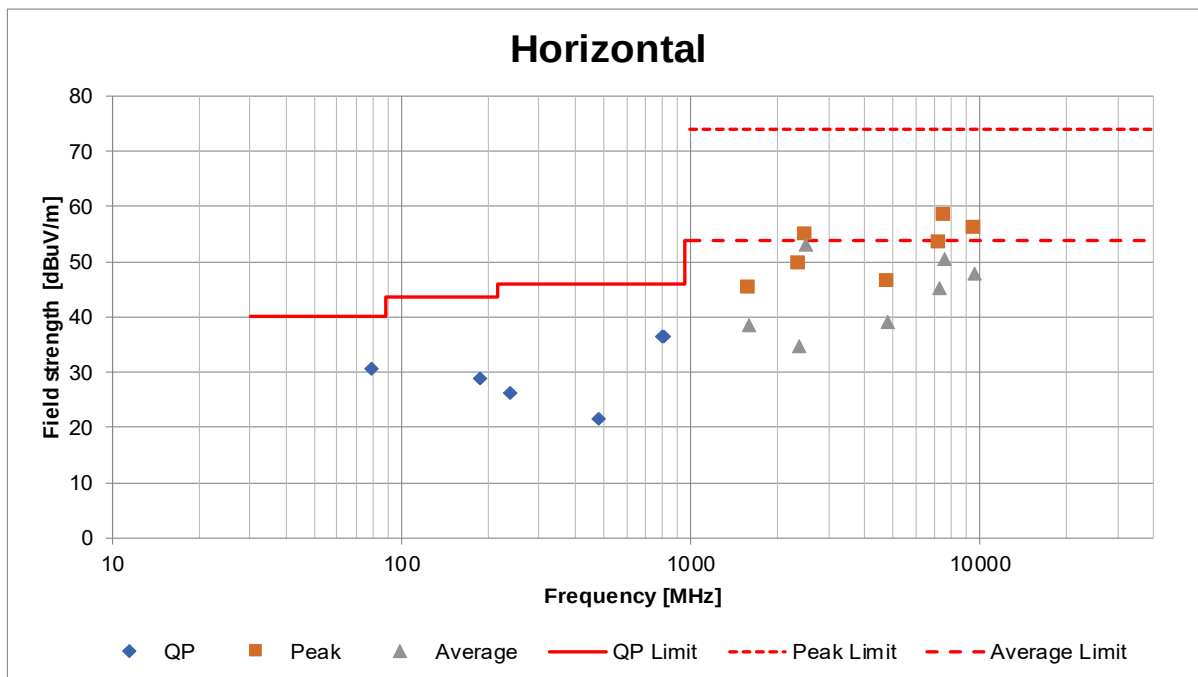


* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

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

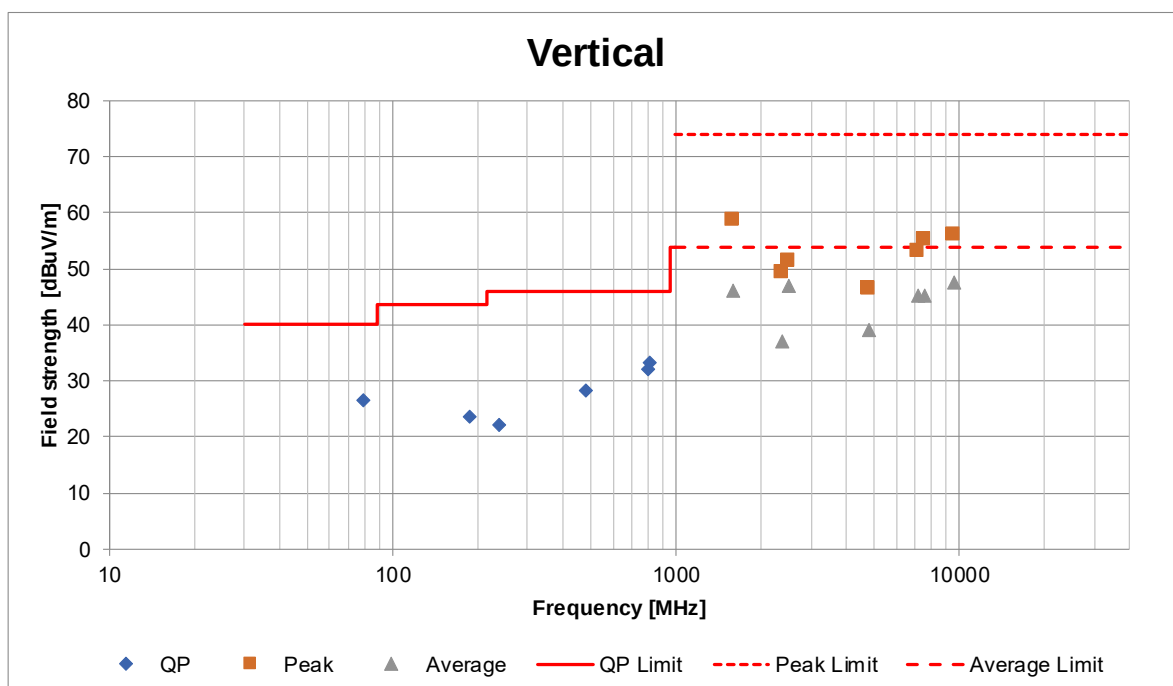
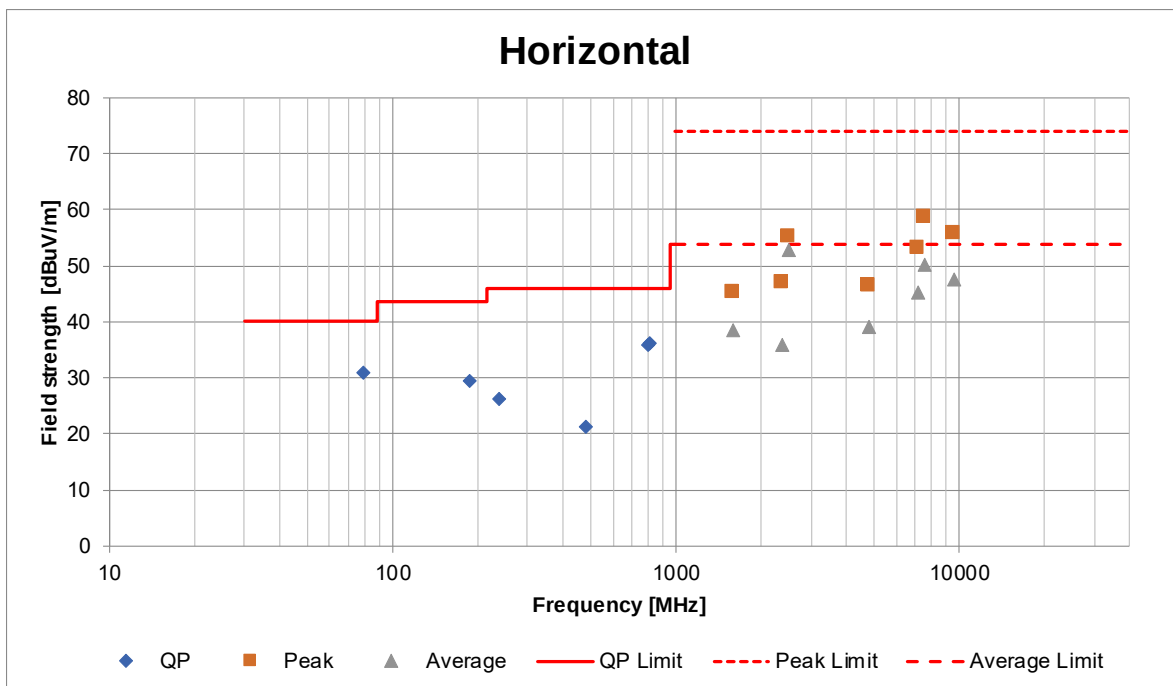
Radiated Spurious Emission (Plot data, Worst case mode for Maximum Conducted Output Power)

Mode	Tx 11ax-20 2412 MHz OFDM				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 20, 2025	SAC2	22 deg. C	57 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 GHz
November 2, 2025	SAC4	22 deg. C	56 % RH	Takafumi Noguchi	Below 1 GHz



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

Mode	Tx BT LE 2M 2402 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
October 22, 2025	SAC2	23 deg. C	55 % RH	Takumi Nishida	1 GHz to 10 GHz
October 28, 2025	SAC2	23 deg. C	53 % RH	Tomoya Sone	10 GHz to 18 GHz
October 30, 2025	SAC2	22 deg. C	50 % RH	Takumi Nishida	Above 18 GHz
November 2, 2025	SAC4	22 deg. C	56 % RH	Takafumi Noguchi	Below 1 GHz



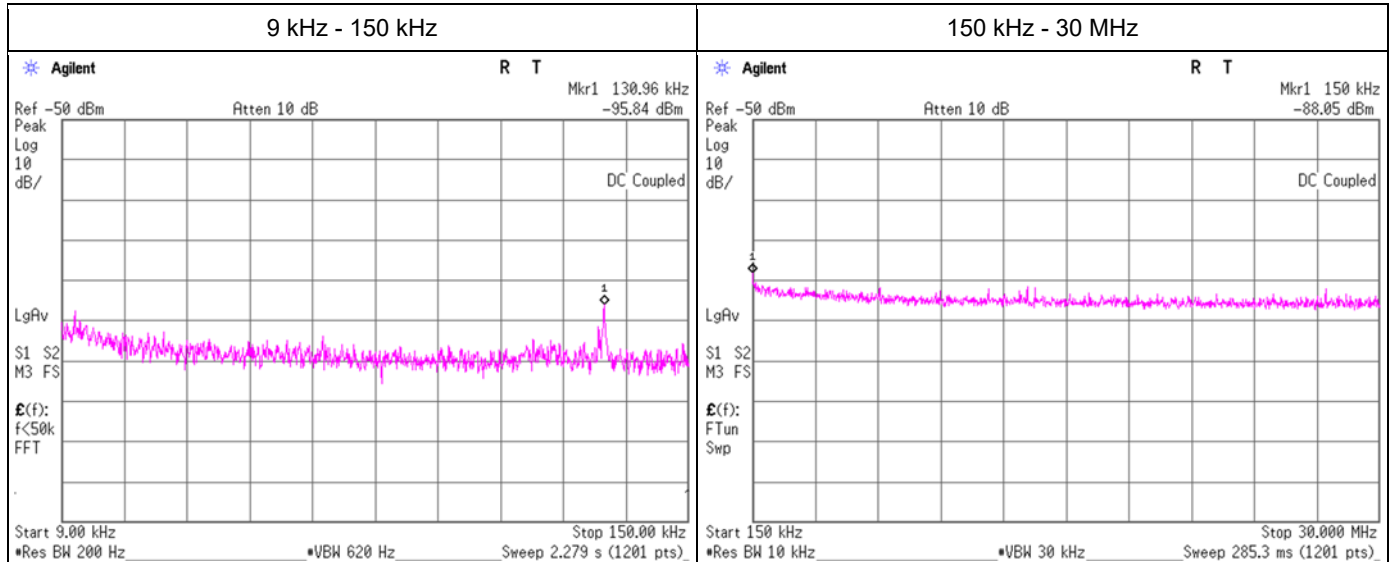
*These plots data contains sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Mode	Tx 11ax-20(OFDM), SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

11ax-20(OFDM), SISO, 2412 MHz



Freq. [MHz]	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
130.960	-95.84	0.58	9.72	2.00	1.00	-83.5	300	6.0	-22.3	25.2	47.5	-
150.000	-88.05	0.59	9.73	2.00	1.00	-75.7	300	6.0	-14.5	24.0	38.5	-

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

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

N: Number of output

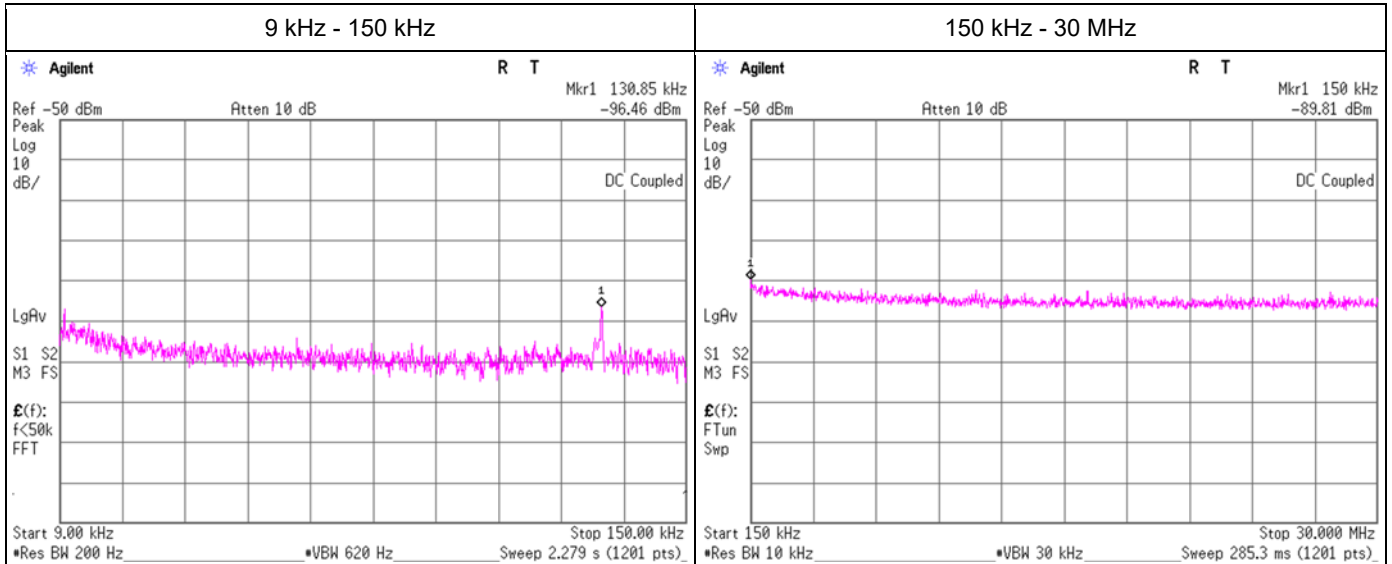
*2.0 dBi was applied to the test result based on ANSI C63.10 since antenna gain was less than 2.0 dBi.

Conducted Spurious Emission

Mode	Tx BT LE 2M-PHY, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

BT LE 2M-PHY, SISO, 2402 MHz



Freq.	Reading	Cable Loss	Atten. Loss	Antenna Gain *	N (Number of Output)	EIRP	Distance	Ground bounce	E (field strength)	Limit	Margin	Remark
[MHz]	[dBm]	[dB]	[dB]	[dBi]		[dBm]	[m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
130.850	-96.46	0.72	9.72	2.00	1.00	-84.0	300	6.0	-22.8	25.2	48.0	-
150.000	-89.81	0.73	9.73	2.00	1.00	-77.4	300	6.0	-16.1	24.0	40.1	-

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

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

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 11b, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 14, 2025	MR8	25 deg.C	58 %RH	Takumi Nishida

11b, SISO

Antenna Port: ANT1

Tested Freq. [MHz]	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	-23.02	1.39	10.00	-11.63	8.00	19.63
2437	-23.70	1.40	10.00	-12.30	8.00	20.30
2462	-24.43	1.40	10.00	-13.03	8.00	21.03

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx 11g, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 14, 2025	MR8	25 deg.C	58 %RH	Takumi Nishida

11g, SISO

Antenna Port: ANT1

Tested Freq. [MHz]	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	-32.86	1.39	10.00	-21.47	8.00	29.47
2437	-33.46	1.40	10.00	-22.06	8.00	30.06
2462	-33.47	1.40	10.00	-22.07	8.00	30.07

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx 11n-20, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 14, 2025	MR8	25 deg.C	58 %RH	Takumi Nishida

11n-20, SISO

Antenna Port: ANT1

Tested Freq. [MHz]	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	-32.89	1.39	10.00	-21.50	8.00	29.50
2437	-32.90	1.40	10.00	-21.51	8.00	29.51
2462	-33.19	1.40	10.00	-21.79	8.00	29.79

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx 11ax-20(OFDM), SISO				
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Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

11ax-20(OFDM), SISO
Antenna Port: ANT1

Tested Freq. [MHz]	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	-34.59	1.39	10.00	-23.20	8.00	31.20
2437	-34.89	1.40	10.00	-23.49	8.00	31.49
2462	-34.40	1.40	10.00	-23.00	8.00	31.00

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx 11ax-20(OFDMA), 26-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 26-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	0	-34.65	1.39	10.00	-23.27	8.00	31.27
2437	4	-35.91	1.40	10.00	-24.52	8.00	32.52
2462	8	-34.72	1.40	10.00	-23.33	8.00	31.33

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx 11ax-20(OFDMA), 52-tone RU, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 52-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	37	-34.86	1.39	10.00	-23.47	8.00	31.47
2437	38	-33.31	1.40	10.00	-21.92	8.00	29.92
2462	40	-33.34	1.40	10.00	-21.94	8.00	29.94

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx 11ax-20(OFDMA), 106-tone RU, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 106-tone RU, SISO

Antenna Port: ANT2

Tested Freq. [MHz]	RU Index	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	53	-33.80	1.39	10.00	-22.41	8.00	30.41
2437	53	-33.89	1.40	10.00	-22.49	8.00	30.49
2462	54	-33.91	1.40	10.00	-22.51	8.00	30.51

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx 11ax-20(OFDMA), 242-tone RU, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
October 23, 2025	MR8	24 deg.C	55 %RH	Yuichiro Yamazaki

11ax-20(OFDMA), 242-tone RU, SISO

Antenna Port: ANT1

Tested Freq. [MHz]	RU Index	PSD Reading [dBm / 3 kHz]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm / 3 kHz]	Limit [dBm / 3 kHz]	Margin [dB]
2412	61	-32.82	1.39	10.00	-21.43	8.00	29.43
2437	61	-32.81	1.40	10.00	-21.42	8.00	29.42
2462	61	-32.89	1.40	10.00	-21.50	8.00	29.50

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx BT LE 1M-PHY, SISO
------	-----------------------

Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

BT LE 1M-PHY, SISO

Antenna Port: ANT1

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	-27.07	1.53	10.00	-15.54	8.00	23.54
2440	-27.58	1.54	10.00	-16.04	8.00	24.04
2480	-27.62	1.55	10.00	-16.08	8.00	24.08

Sample Calculation:

PSD: Power Spectral Density

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

Power Density

Mode	Tx BT LE 2M-PHY, SISO
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Date	Test Place	Temperature	Humidity	Engineer
October 22, 2025	MR8	23 deg.C	48 %RH	Yuichiro Yamazaki

BT LE 2M-PHY, SISO

Antenna Port: ANT1

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	-30.22	1.53	10.00	-18.70	8.00	26.70
2440	-30.75	1.54	10.00	-19.21	8.00	27.21
2480	-30.89	1.55	10.00	-19.34	8.00	27.34

Sample Calculation:

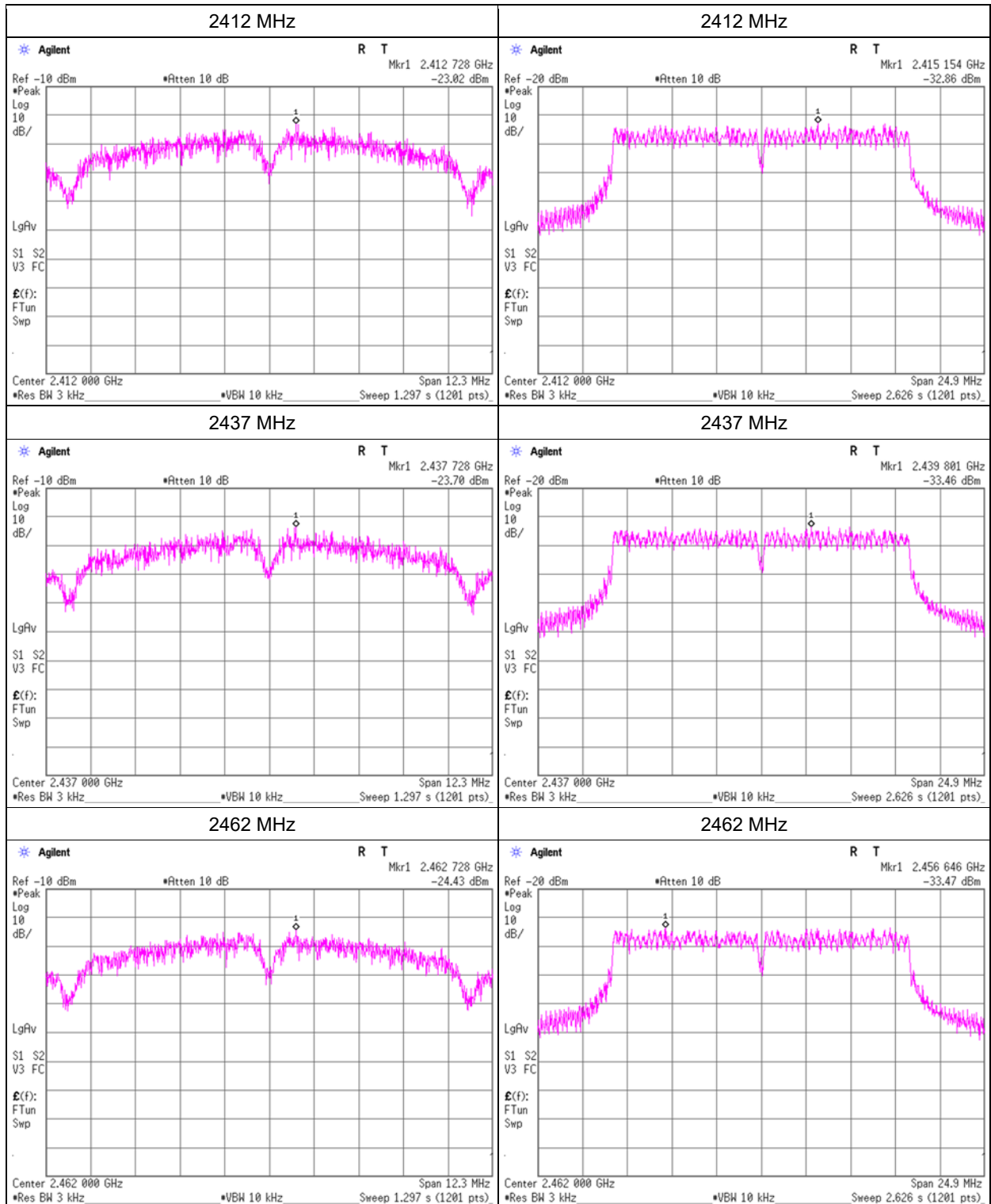
PSD: Power Spectral Density

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

Power Density

11b, SISO, ANT1

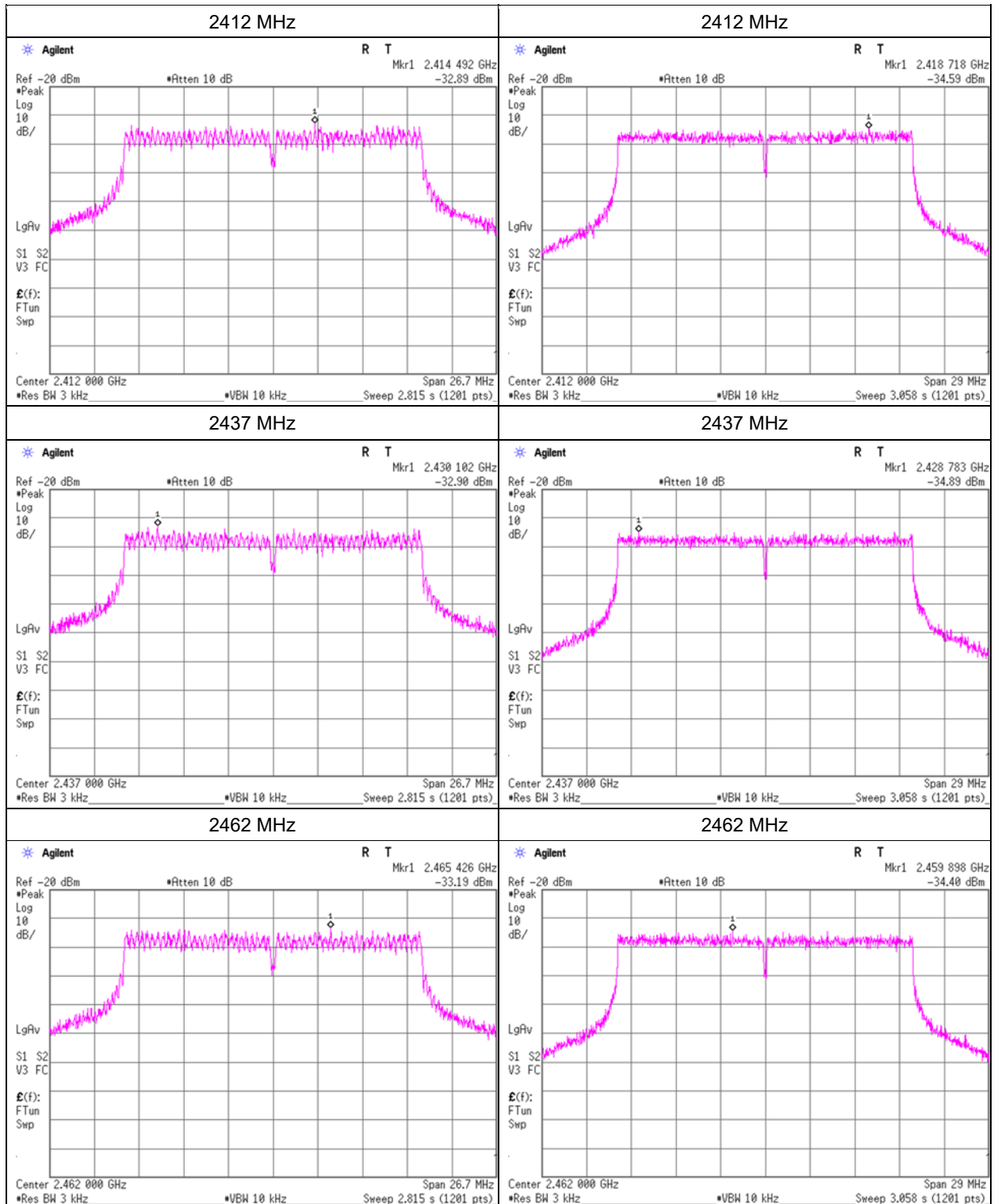
11g, SISO, ANT1



Power Density

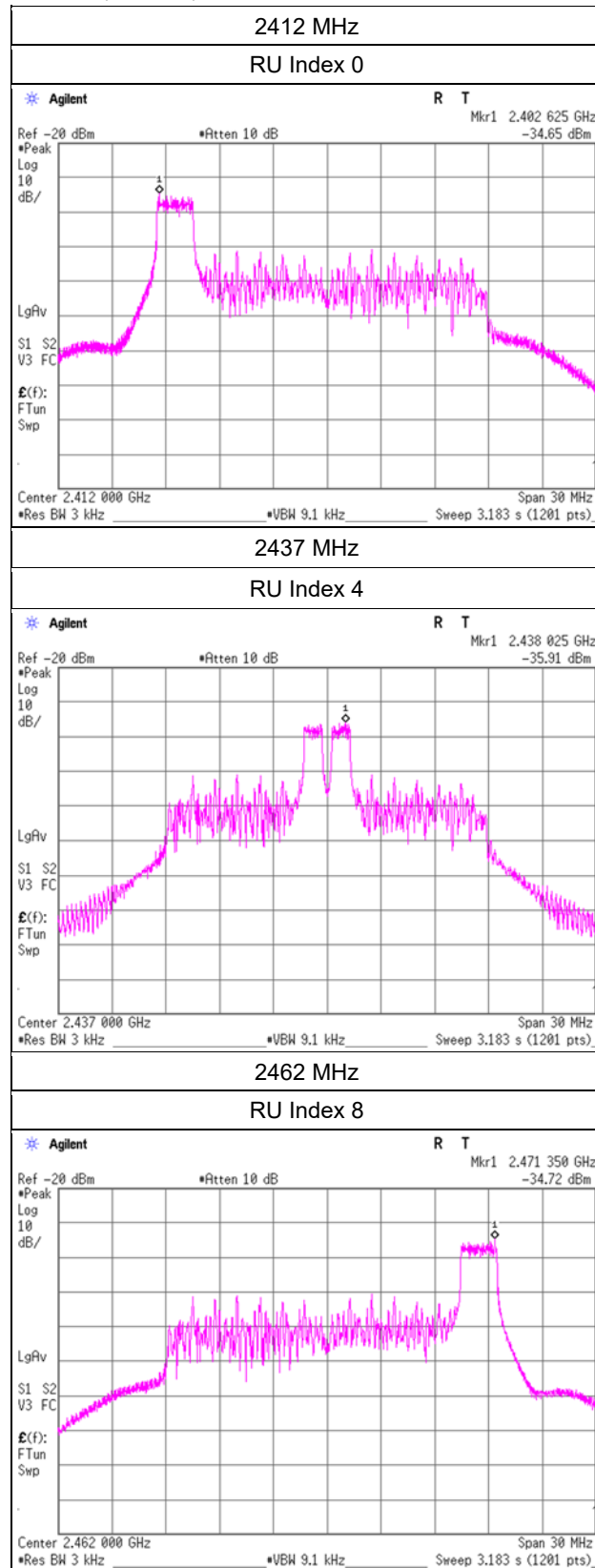
11n-20, SISO, ANT1

11ax-20, SISO, ANT1



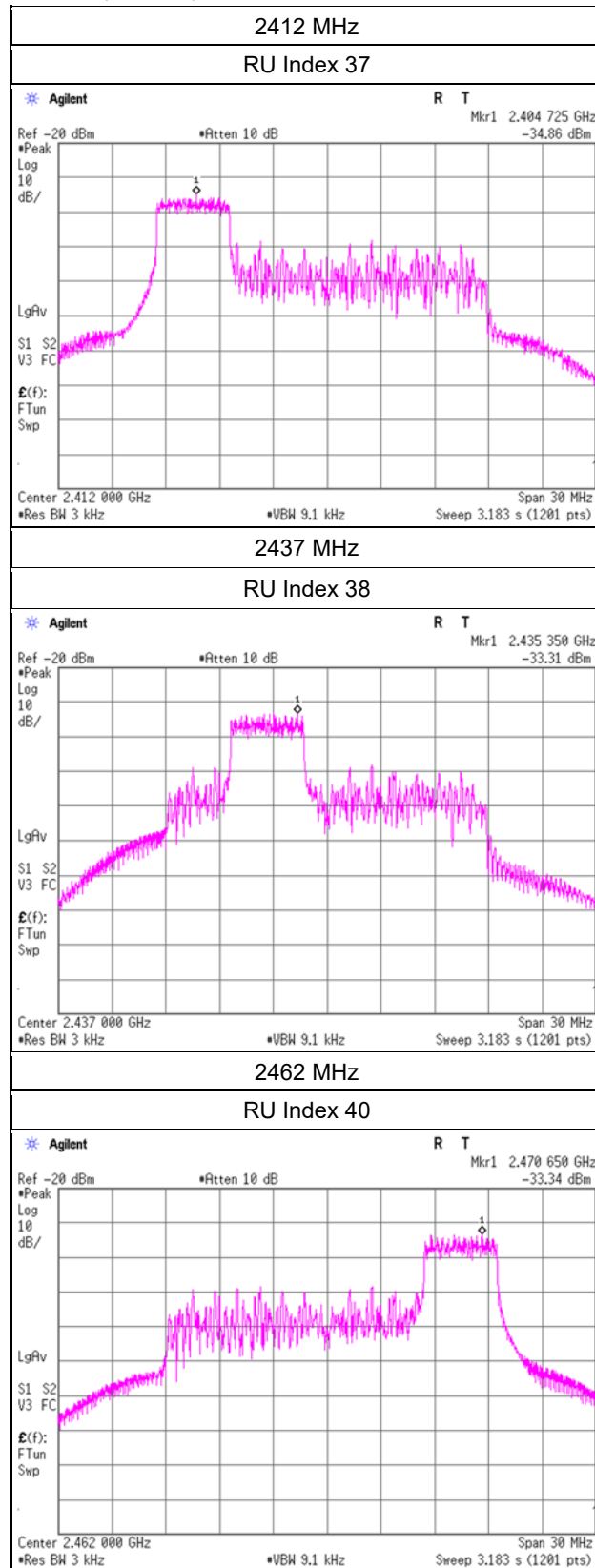
Power Density

11ax-20(OFDMA), 26-tone RU, SISO, ANT2



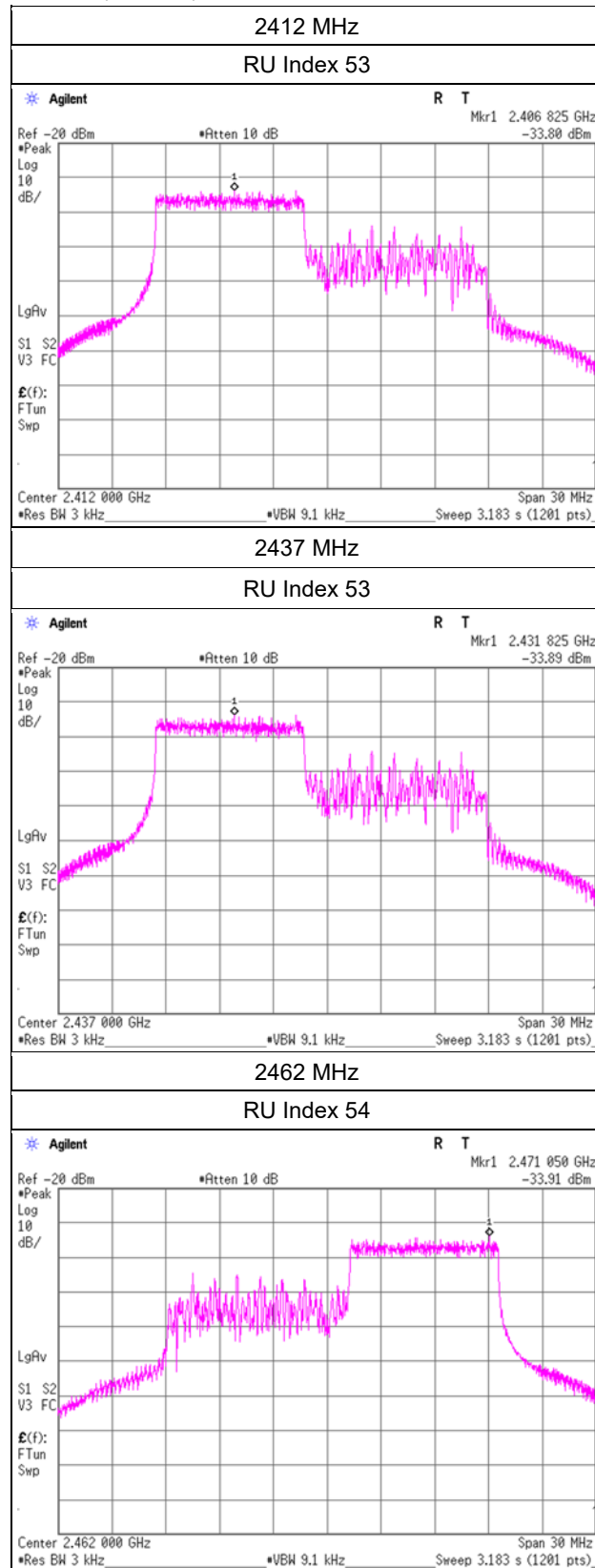
Power Density

11ax-20(OFDMA), 52-tone RU, SISO, ANT2



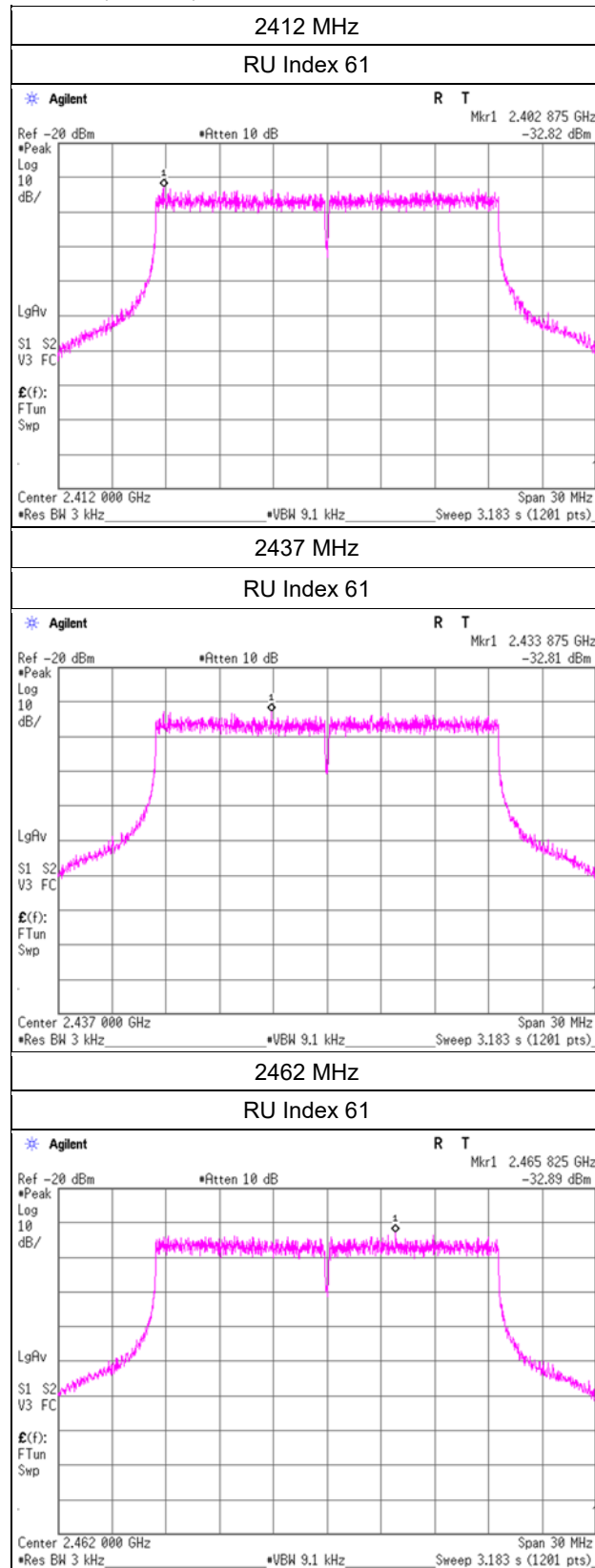
Power Density

11ax-20(OFDMA), 106-tone RU, SISO, ANT2



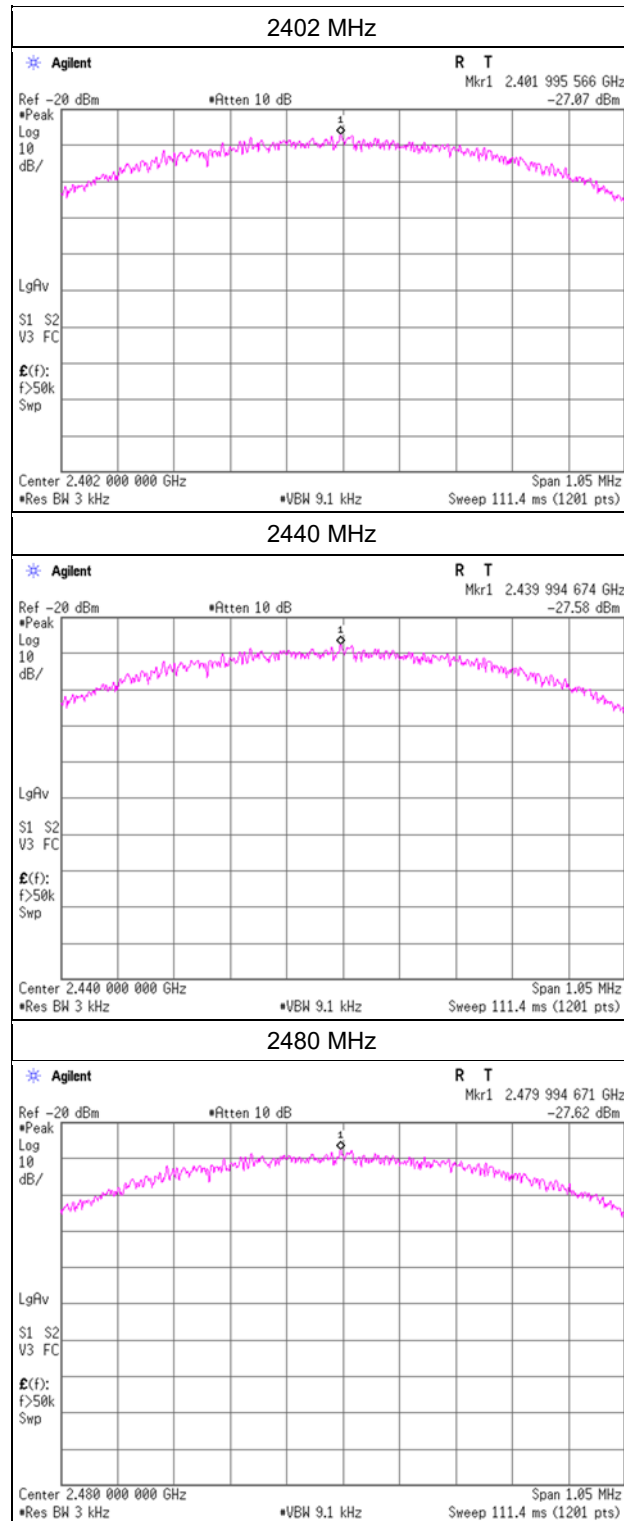
Power Density

11ax-20(OFDMA), 242-tone RU, SISO, Ant2



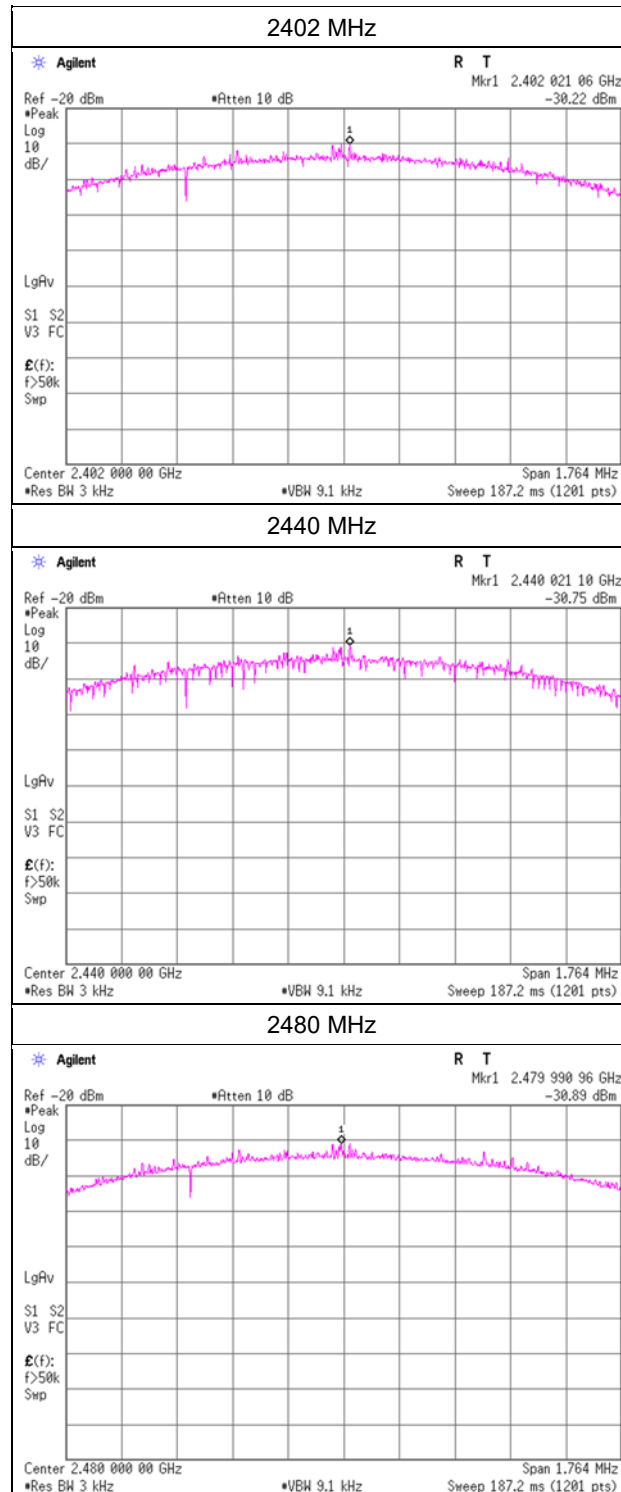
Power Density

BT LE 1M-PHY, SISO, ANT1



Power Density

BT LE 2M-PHY, SISO, ANT1



APPENDIX 2: Test Instruments

Test Equipment-1/3 (Test date: October 14 to December 8, 2025)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141232	High Pass Filter 3.5-18.0GHz	UL-ISE	HPF SELECTOR	001	09/02/2025	12
RE	141267	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-192	09/12/2025	12
RE	141397	Coaxial Cable	UL-ISE EMC	-	-	11/29/2024	12
RE	141404	High Pass Filter 3.5-24GHz	TOKIMEC	TF323DCA	601	05/12/2025	12
RE	141425	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	VHA 91031302	08/14/2025	12
RE	141503	Horn Antenna 18-26.5GHz	EMCO	3160-09	1265	06/18/2025	12
RE	141508	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	557	05/20/2025	12
RE	141511	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	253	09/17/2025	12
RE	141513	Horn Antenna 15-40GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9170	BBHA9170306	07/18/2025	12
RE	141532	DIGITAL HITESTER	HIOKI E. E. CORPORATION	3805	051201197	01/16/2025	12
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/01/2025	12
RE	141558	Digital Tester(TRUE RMS MULTIMETER)	Fluke Corporation	115	17930030	05/13/2025	12
RE	141580	MicroWave System Amplifier	Keysight Technologies Inc	83017A	MY39500779	03/24/2025	12
RE	141583	Pre Amplifier	SONOMA INSTRUMENT	310	260833	04/02/2025	12
RE	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	10/06/2025	12
RE	141951	EMI Test Receiver	Rohde & Schwarz	ESR26	101408	05/07/2025	12
RE	142006	AC2_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/21/2025	24
RE	142011	AC4_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	07/10/2025	24
RE	142013	AC3_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	04/14/2025	24
RE	142183	Measure	KOMELON	KMC-36	-	10/20/2025	12
RE	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	142230	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	220646	Attenuator	Huber+Suhner	6806 N-50-1	-	03/06/2025	12
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	01/19/2025	12
RE	244709	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202103	01/19/2025	12
RE	244710	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202104	01/19/2025	12
RE	245787	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	689	04/01/2025	12
RE	252663	Microwave Cable	Huber+Suhner	SF126E/11PC35/11PC35/1000MM, 5000MM	616276/126E / 616275/126E	09/03/2025	12
RE	253739	Pre Amplifier	Keysight Technologies Inc	8449B	3008A01919	10/17/2025	12
RE	263275	Microwave Cable	Junkosha	MWX221-05000DMSDMS+ MWX221-01000DMSDMS	2505S043+ 2503S145	05/20/2025	12

Test Equipment-2/3 (Test date: October 14 to December 8, 2025)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	141194	Antenna Terminal Measurement Software	UL-ISE	-	-	-	-
AT	141244	Attenuator(10dB)	Weinschel - API Technologies Corp	WA8-10-34	A198	02/04/2025	12
AT	141360	DIGITAL HiTESTER	HIOKI E. E. CORPORATION	3805	070900532	01/16/2025	12
AT	141419	Attenuator	Weinschel Associates	WA56-10	56100305	05/20/2025	12
AT	141420	Attenuator	Weinschel Associates	WA56-10	56100307	05/20/2025	12
AT	141532	DIGITAL HiTESTER	HIOKI E. E. CORPORATION	3805	051201197	01/16/2025	12
AT	141557	DIGITAL HiTESTER	HIOKI E. E. CORPORATION	3805	070900530	01/15/2025	12
AT	141805	Power Meter	Anritsu Corporation	ML2495A	6K00003338	08/26/2025	12
AT	141809	Power Meter	Anritsu Corporation	ML2495A	825002	05/15/2025	12
AT	141810	Power Meter	Anritsu Corporation	ML2495A	824014	11/05/2025	12
AT	141830	Power sensor	Anritsu Corporation	MA2411B	738285	05/15/2025	12
AT	141832	Power sensor	Anritsu Corporation	MA2411B	738174	11/05/2025	12
AT	141840	Power sensor	Anritsu Corporation	MA2411B	011737	08/26/2025	12
AT	141855	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187750	11/14/2024	12
AT	141978	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY46180899	05/14/2025	12
AT	184338	SMA Terminator Plug(50 Ohms)	Amphenol	132360	-	-	-
AT	197220	Microwave cable	Huber+Suhner	SF126E/11PC35/11PC35/2000MM	537003/126E	03/18/2025	12
AT	227033	Power Meter	Raditeq (Formerly DARE!! Instruments)	RPR3008W	RPR8W-2201001	02/17/2025	12
AT	230439	Automated EMC/RF Freeware	Raditeq (Formerly DARE!! Instruments)	RadiMation Free	2022.2.3	-	-
AT	244709	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202103	01/19/2025	12
AT	244711	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202105	01/19/2025	12
AT	259288	Coaxial Cable	UL-ISE	-	-	03/03/2025	12
AT	270526	Data Posting tool	UL-ISE	Data Posting tool	-	-	-

Test Equipment-3/3 (Test date: March 24 and 25, 2026)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
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	141397	Coaxial Cable	UL-ISE EMC	-	-	11/12/2025	12
RE	141425	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	VHA 91031302	08/14/2025	12
RE	141506	Horn Antenna 15-40GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9170	BBHA9170307	08/13/2025	12
RE	141508	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	557	05/20/2025	12
RE	141581	MicroWave System Amplifier	Keysight Technologies Inc	83017A	00650	10/17/2025	12
RE	141583	Pre Amplifier	SONOMA INSTRUMENT	310	260833	04/02/2025	12
RE	141884	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY44020357	05/15/2025	12
RE	141951	EMI Test Receiver	Rohde & Schwarz	ESR26	101408	05/07/2025	12
RE	142011	AC4 Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	07/10/2025	24
RE	142017	AC4 Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	04/17/2025	24
RE	142230	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	220646	Attenuator	Huber+Suhner	6806 N-50-1	-	03/06/2026	12
RE	225532	High Pass Filter 8-24.5GHz	TSJ (Techno Science Japan)	SCHPF-8000/T4125-O/O	1504C	11/04/2025	12
RE	237927	Broadband Amplifier	ERAVANT	SBB-0115033218-2F2F-E3	27554-01	07/02/2025	12
RE	244710	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202104	01/14/2026	12
RE	245787	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	689	04/01/2025	12
RE	272098	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4255	250902199	11/27/2025	12
RE	276744	Microwave cable	Huber+Suhner	SF103/11PC35/11PC35/1000mm / SF126E/11PC35/5000mm	800674 /3(1m) / 616530/126E(5m)	03/17/2026	12

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

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

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

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

Test item:

AT: Antenna Terminal Conducted test

RE: Radiated Emission