RADIO TEST REPORT

Test Report No.: 14614349H-C

Customer	**Sony Interactive Entertainment Inc.**
Description of EUT	**Wireless communication module**
Model Number of EUT	**J20H104**
FCC ID	**AK8M21DFD1**
Test Regulation	**FCC Part 15 Subpart E**
Test Result	**Complied (Refer to SECTION 3)**
Issue Date	**February 17, 2023**
Remarks	**WLAN (5 GHz band) part, For Permissive change, Maximum Conducted Output Power and Radiated Spurious Emission tests only**

Representative Test Engineer	**Approved By**
Sayaka Hara Engineer	Takayuki Shimada Leader

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".

UL Japan, Inc. Ise EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan / +81-596-24-8999

ANNOUNCEMENT

- This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
- The results in this report apply only to the sample tested. (Laboratory was not involved in sampling.)
- This sample tested is in compliance with the limits of the above regulation.
- The test results in this test report are traceable to the national or international standards.
- This test report must not be used by the customer to claim product certification, approval, or endorsement by the A2LA accreditation body.
- This test report covers Radio technical requirements.
  It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)
- The all test items in this test report are conducted by UL Japan, Inc. Ise EMC Lab.
- The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan, Inc. has been accredited.
- The information provided from the customer for this report is identified in Section 1.
- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

REVISION HISTORY

Original Test Report No.: 14614349H-C

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	14614349H-C	February 17, 2023	-

Reference: Abbreviations (Including words undescribed in this report)

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

CONTENTS **PAGE**

SECTION 1: Customer Information

Company Name	Sony Interactive Entertainment Inc.
Brand Name	SONY
Address	1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan
Telephone Number	+81-50-3807-5639
Contact Person	Miho Nakamura

The information provided from 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

* The laboratory is exempted from liability of any test results affected from the above information in SECTION 2 and 4.

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Wireless communication module
Model Number	J20H104
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	December 13, 2022
Test Date	December 15, 2022 to January 16, 2023

2.2 Product Description

General Specification

Rating	DC 3.3 V

Radio Specification

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)	20 MHz: 26/52/106/242-tone RU
Bandwidth & Channel spacing	Less than 20 MHz & 5 MHz	
Method of frequency generation	Synthesizer	
Antenna Type	PIFA	
Antenna Gain: G_{ANT}	Antenna 1: 4.0 dBi Antenna 2: 4.5 dBi	
Directional Gain *1)	7.26 dBi	
Maximum clock frequency	640 MHz	

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 M Band: 5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5720 MHz 5745 MHz to 5825 MHz	
	40 M Band: 5190 MHz to 5230 MHz 5270 MHz to 5310 MHz 5510 MHz to 5710 MHz 5755 MHz to 5795 MHz	
	80 M Band: 5210 MHz 5290 MHz 5530 MHz to 5690 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
Bandwidth & Channel spacing	Less than 20 MHz / 40 MHz / 80 MHz & 20 MHz / 40 MHz / 80 MHz	
Method of frequency generation	Synthesizer	
Antenna Type	PIFA	IFA
Antenna Gain: G_{ANT}	Antenna 1: 6.4 dBi	Antenna 3: 5.0 dBi
Directional Gain *1)	8.74 dBi	
Maximum clock frequency	640 MHz	

BT1: Bluetooth (BR / EDR / Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	BT: FHSS (GFSK, π/4DQPSK, 8DPSK) BT LE: GFSK
Bandwidth / Channel spacing	BT:79 MHz / 1 MHz BT LE: 1 MHz & 2 MHz / 2 MHz
Method of frequency generation	Synthesizer
Antenna Type	IFA
Antenna Gain	Antenna 3: 3.0 dBi
Maximum clock frequency	640 MHz

BT2: Bluetooth (BR / EDR / Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	BT: FHSS (GFSK, π/4DQPSK, 8DPSK) BT LE: GFSK
Bandwidth / Channel spacing	BT:79 MHz / 1 MHz BT LE: 1 MHz & 2 MHz / 2 MHz
Method of frequency generation	Synthesizer
Antenna Type	IFA
Antenna Gain	Antenna 4: 4.5 dBi
Maximum clock frequency	640 MHz

*1) Directional antenna gain = $10\log\left(\left(10^{\frac{G_{ANT1}}{20}}+10^{\frac{G_{ANT2}}{20}}\right)^2/2\right)$

*This test report applies to WLAN (5 GHz band) part.

2.3 Contents of modification

Each antenna was changed from the previous application.
Low Power Setting was also added.

SECTION 3: Test specification, Procedures & Results

3.1 Test Specification

Test Specification	FCC Part 15 Subpart E The latest version on the first day of the testing period
Title	FCC 47 CFR Part 15 Radio Frequency Device Subpart E Unlicensed National Information Infrastructure Devices Section 15.407 General technical requirements

3.2 Procedures and Results

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
Maximum Conducted Output Power	**FCC:** KDB Publication Number 789033	**FCC:** 15.407 (a) (1) (2) (3)	See data	Complied a)	Conducted
	ISED: -	**ISED:** RSS-247 6.2.1.1 6.2.2.1 6.2.3.1 6.2.4.1			
Spurious Emission Restricted Band Edge	**FCC:** ANSI C63.10-2013 KDB Publication Number 789033	**FCC:** 15.407 (b), 15.205 and 15.209	3.9 dB 5350.0 MHz, Horizontal, AV	Complied b)	Radiated (> 30 MHz) *1)
	ISED: -	**ISED:** RSS-247 6.2.1.2 6.2.2.2 6.2.3.2 6.2.4.2			
Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593. * In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred. *1) Radiated test was selected over 30 MHz based on FCC 15.407 (b) and KDB 789033 D02 G.3.b).					
a) Refer to APPENDIX 1 (data of Maximum Conducted Output Power) b) Refer to APPENDIX 1 (data of Radiated Spurious Emission)					

FCC Part 15.31 (e)

The stable voltage will be supplied by the end product, which will be required to have a power supply regulator. Therefore, the EUT complies with the requirement.

FCC Part 15.203/212 Antenna requirement

[Antenna 1 and 2] The EUT has unique coupling/antenna connector (U.FL).
[Antenna 3 and 4] The antenna is not removable from the EUT.
Therefore, the equipment complies with the antenna requirement of Section 15.203/212.

3.3 Addition to Standard

No addition, exclusion nor deviation has been made from the standard.

3.4 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		Uncertainty (+/-)
3 m	9 kHz to 30 MHz		3.3 dB
10 m			3.1 dB
3 m	30 MHz to 200 MHz	(Horizontal)	4.8 dB
		(Vertical)	5.0 dB
	200 MHz to 1000 MHz	(Horizontal)	5.1 dB
		(Vertical)	6.2 dB
10 m	30 MHz to 200 MHz	(Horizontal)	4.8 dB
		(Vertical)	4.8 dB
	200 MHz to 1000 MHz	(Horizontal)	4.9 dB
		(Vertical)	5.0 dB
3 m	1 GHz to 6 GHz		4.9 dB
	6 GHz to 18 GHz		5.2 dB
1 m	10 GHz to 26.5 GHz		5.5 dB
	26.5 GHz to 40 GHz		5.4 dB
0.5 m	26.5 GHz to 40 GHz		5.4 dB
10 m	1 GHz to 18 GHz		5.3 dB

Antenna Terminal test

Test Item	Uncertainty (+/-)
Maximum Conducted Output Power / Average Output Power	1.2 dB

3.5 Test Location

UL Japan, Inc. Ise EMC Lab.
*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919
ISED Lab Company Number: 2973C / CAB identifier: JP0002
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan
Telephone: +81-596-24-8999

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	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	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room	3 m
No.3 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room	3 m
No.4 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room	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	-	-

3.6 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 802.11a (11a)	6 Mbps, PN9
IEEE 802.11n MIMO 20 MHz BW (11n-20)	MCS 0, PN9
IEEE 802.11ac MIMO 20 MHz BW (11ac-20)	MCS 0 (1TX), PN9
IEEE 802.11ax MIMO 20 MHz BW (11ax-20)	MCS 0 (1TX), PN9
IEEE 802.11n MIMO 40 MHz BW (11n-40)	MCS 0, PN9
IEEE 802.11ac MIMO 40 MHz BW (11ac-40)	MCS 0 (1TX), PN9
IEEE 802.11ax MIMO 40 MHz BW (11ax-40)	MCS 0 (1TX), PN9
IEEE 802.11ac MIMO 80 MHz BW (11ac-80)	MCS 0 (1TX), PN9
IEEE 802.11ax MIMO 80 MHz BW (11ax-80)	MCS 0 (1TX), PN9
*The worst antenna and condition was determined based on the test result of Maximum Conducted Output Power.	
*Power of the EUT was set by the software as follows; Power Setting: See the table below Software: autotest_for-ULJ.sh (Date: December 13, 2022, 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.	

Additional Low Power Setting for Maximum Conducted Output Power

OFDM

	W52			W53			W56			W58		
Mode	20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW
11a/n/ac	6.5			6	5.5	6	6.5			3		
11ax	5	6.5		2.5	5	6	6.5			3		

(dBm)

OFDMA

	W52			W53			W56			W58		
RU type	20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW
26	-4.5			-7.5			-2			-6		
52	-1.5			-5			1			-3		
106	1.5			-1			4			0		
242	5			2.5			6.5			3		
484	-	6.5		-	5		-	6.5		-	3	
996	-	-	6.5	-	-	6	-	-	6.5	-	-	3

(dBm)

Power Setting for Radiated Spurious Emission

		W52			W53/W56/W58		
		20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW
OFDM		6.5			8.0		
OFDMA	26-tone RU	-2.0			-0.5		
	52-tone RU	1.0			2.5		
	106-tone RU	4.0			5.5		
	242-tone RU	6.5			8.0		
	484-tone RU	-	6.5		-	8.0	
	996-tone RU	-	-	6.5	-	-	8.0

(dBm)

*The Details of Operation Mode(s)

Test Item	**Operating Mode**	**Tested Antenna**	**Tested Frequency**			
			Lower Band	**Middle Band**	**Additional Band**	**Upper Band**
Maximum Conducted Output Power	Tx 11a Tx 11n-20 Tx 11ac-20	Antenna 1 Antenna 3 Antenna 1+3	-	5260 MHz 5300 MHz 5320 MHz	5500 MHz 5580 MHz 5700 MHz 5720 MHz	5745 MHz 5785 MHz 5825 MHz
	Tx 11ax-20 OFDM Tx 11ax-20 OFDMA		5180 MHz 5220 MHz 5240 MHz	5260 MHz 5300 MHz 5320 MHz	5500 MHz 5580 MHz 5700 MHz 5720 MHz	5745 MHz 5785 MHz 5825 MHz
	Tx 11n-40 Tx 11ac-40 Tx 11ax-40 OFDM Tx 11ax-40 OFDMA		5190 MHz *1) 5230 MHz *1)	5270 MHz 5310 MHz	5510 MHz 5550 MHz 5670 MHz 5710 MHz	5755 MHz 5795 MHz
	Tx 11ac-80 Tx 11ax-80 OFDM Tx 11ax-80 OFDMA		5210 MHz *2)	5290 MHz	5530 MHz 5610 MHz 5690 MHz	5775 MHz
Radiated Spurious Emission (Below 1 GHz)	Tx 11ax-20 OFDM *3)	Antenna 1+3	-	-	5500 MHz	-
Radiated Spurious Emission (Above 1 GHz)	Tx 11ax-20 OFDM *4) Tx 11ax-20 OFDMA *5)	Antenna 1+3	5180 MHz	5240 MHz 5320 MHz	5500 MHz 5580 MHz 5700 MHz	5745 MHz 5785 MHz 5825 MHz
	Tx 11ax-40 OFDM *4) Tx 11ax-40 OFDMA *5)		5190 MHz	5270 MHz 5310 MHz	5510 MHz 5550 MHz 5670 MHz	5755 MHz 5795 MHz
	Tx 11ax-80 OFDM *4) Tx 11ax-80 OFDMA *5)		5210 MHz	5290 MHz	5530 MHz 5610 MHz 5690 MHz	5775 MHz

*1) Only for 11ax-40 OFDMA (26-tone RU / 52-tone RU / 106-tone RU / 242-tone RU).
*2) Only for 11ax-80 OFDMA (26-tone RU / 52-tone RU / 106-tone RU / 242-tone RU).
*3) The mode was tested as a representative, because it had the highest power at antenna terminal test.
*4) Since each of 20 MHz BW (11n-20 / 11ac-20 / 11ax-20), 40 MHz BW (11n-40 / 11ac-40 / 11ax-40) and 80 MHz BW (11ac-80 / 11ax-80) have the same modulation method and no differences in transmitting specification, the test was performed on the representative mode that had the highest output power.
*5) OFDMA configuration tests were conducted only at the band edge since preliminary testing indicated that the other spurious emission was lower than OFDM.

Simultaneous transmission (Only Antenna 3 simultaneously transmits BT1 and WLAN 5 GHz band on a single antenna.)

Test Item	**Mode *1)**	**Tested Antenna**
Radiated Spurious Emission	Tx 11ax-80 5290 MHz (OFDM) + BT1 3DH5 Hopping	Antenna 3

*1) The test was conducted on representative mode, the worst mode at Spurious emission test for WLAN 5 GHz band and the mode had the highest power at Antenna terminal conducted test for BT1.

4.2 Configuration and Peripherals

This page has been submitted for a separate exhibit.

SECTION 5: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >
EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

< Above 1 GHz >
EUT was placed on a urethane 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.

< Below 1 GHz >

The result also satisfied with the general limits specified in section 15.209 (a).

< Above 1 GHz >

Inside of restricted bands (Section 15.205):

Apply to limit in the Section 15.209 (a).

Outside of the restricted bands:

Apply to limit 68.2 dBuV/m, 3 m (-27 dBm e.i.r.p.*) in the Section 15.407 (b) (1) (2) (3).

For W58 Bandedge
-27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge in the section 15.407(b)(4)(i).

Restricted band edge:

Apply to limit in the Section 15.209 (a).
Since this limit is severer than the limit of the inside of restricted bands.

*Electric field strength to e.i.r.p. conversion:

$$E = \frac{1000000\ \sqrt{30\,P}}{3}\ \text{(uV/m)}$$:P is the e.i.r.p. (Watts)

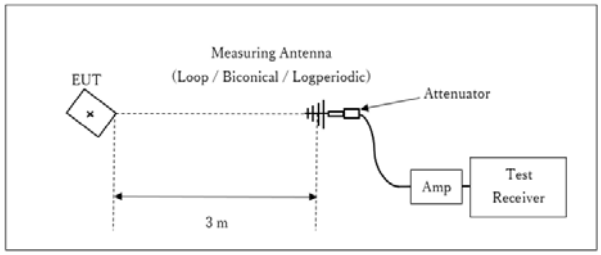
Test Antennas are used as below;

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

Frequency	Below 1 GHz	Above 1 GHz	
Instrument Used	Test Receiver	Spectrum Analyzer	
Detector	QP	Peak	Average
IF Bandwidth	BW: 120 kHz	RBW: 1 MHz VBW: 3 MHz	Method AD RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: ≥ 100 traces If duty cycle was less than 98%, a duty factor was added to the results.

Figure 2: Test Setup

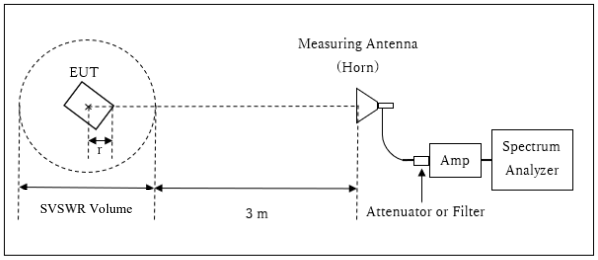
Below 1 GHz



× : Center of turn table

Test Distance: 3 m

1 GHz to 10 GHz

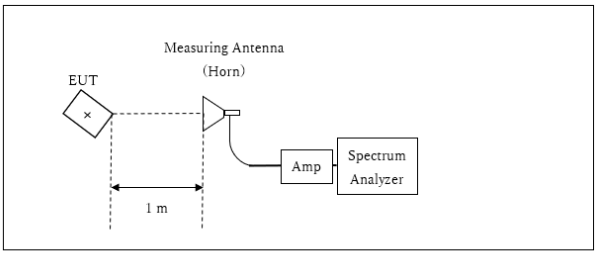


r : Radius of an outer periphery of EUT
× : Center of turn table

Distance Factor: 20 x log (3.95 m / 3.0 m) = 2.39 dB
* Test Distance: (3 + SVSWR Volume /2) - r = 3.95 m

SVSWR Volume : 2.0 m
(SVSWR Volume has been calibrated based on CISPR 16-1-4.)
r = 0.05 m

10 GHz to 40 GHz



× : Center of turn table

Distance Factor: 20 x log (1.0 m / 3.0 m) = -9.5 dB
*Test Distance: 1 m

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

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

Measurement Range : **30 MHz to 40 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 and Test method
Maximum Conducted Output Power	-	-	-	Auto	Average	-	Power Meter (Sensor: 80 MHz BW) (Method PM-G)

The test results and limit are rounded off to two decimals place, 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

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11a

Antenna 1+3 Applied limit: 15.407, mobile and portable client device

Tested	26 dB	99%	Conducted power						e.i.r.p.					
Frequency	EBW	OBW	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	(B for FCC)	(B for IC)	1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5260	23.710	17.287	4.13	5.55	9.68	9.86	21.23	11.37	30.90	41.50	72.40	18.60	29.97	11.37
5300	23.794	17.375	4.22	4.89	9.10	9.59	21.23	11.64	31.55	36.56	68.11	18.33	29.97	11.64
5320	25.772	17.417	4.27	4.85	9.12	9.60	21.23	11.63	31.92	36.31	68.22	18.34	29.97	11.63
5500	24.547	17.373	6.71	4.56	11.27	10.52	21.23	10.71	50.23	34.12	84.35	19.26	29.97	10.71
5580	23.337	17.270	6.92	4.37	11.28	10.52	21.23	10.71	51.76	32.66	84.42	19.26	29.97	10.71
5700	24.129	17.385	5.86	5.48	11.34	10.55	21.23	10.68	43.85	41.02	84.87	19.29	29.97	10.68
5720	23.040	17.308	5.75	5.45	11.20	10.49	21.23	10.74	43.05	40.74	83.79	19.23	29.97	10.74
5745	-	17.298	2.24	1.72	3.96	5.98	27.26	21.28	16.75	12.88	29.63	14.72	36.00	21.28
5785	-	17.305	2.32	1.66	3.98	6.00	27.26	21.26	17.38	12.42	29.79	14.74	36.00	21.26
5825	-	17.301	2.62	1.78	4.40	6.43	27.26	20.83	19.59	13.30	32.89	15.17	36.00	20.83

		Antenna 1						**Antenna 3**					
Tested	Duty	Power	Cable	Atten.	Antenna	Result		Power	Cable	Atten.	Antenna	Result	
Frequency	Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.
		Reading				Power		Reading				Power	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5260	0.00	-4.75	0.90	10.01	8.74	6.16	14.90	-3.43	1.00	9.87	8.74	7.44	16.18
5300	0.00	-4.66	0.90	10.01	8.74	6.25	14.99	-3.98	1.00	9.87	8.74	6.89	15.63
5320	0.00	-4.61	0.90	10.01	8.74	6.30	15.04	-4.01	1.00	9.87	8.74	6.86	15.60
5500	0.00	-2.64	0.90	10.01	8.74	8.27	17.01	-4.28	1.00	9.87	8.74	6.59	15.33
5580	0.00	-2.52	0.90	10.02	8.74	8.40	17.14	-4.47	1.00	9.87	8.74	6.40	15.14
5700	0.00	-3.26	0.90	10.04	8.74	7.68	16.42	-3.48	1.00	9.87	8.74	7.39	16.13
5720	0.00	-3.35	0.90	10.05	8.74	7.60	16.34	-3.51	1.00	9.87	8.74	7.36	16.10
5745	0.00	-7.45	0.90	10.05	8.74	3.50	12.24	-8.52	1.00	9.88	8.74	2.36	11.10
5785	0.00	-7.30	0.90	10.06	8.74	3.66	12.40	-8.68	1.00	9.88	8.74	2.20	10.94
5825	0.00	-6.78	0.90	10.06	8.74	4.18	12.92	-8.38	1.00	9.88	8.74	2.50	11.24

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11n-20

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5260	23.018	18.023	3.92	5.52	9.44	9.75	21.23	11.48	29.31	41.30	70.61	18.49	29.97	11.48
5300	23.244	18.032	4.13	5.04	9.17	9.62	21.23	11.61	30.90	37.67	68.57	18.36	29.97	11.61
5320	23.953	18.041	4.45	4.95	9.40	9.73	21.23	11.50	33.27	37.07	70.33	18.47	29.97	11.50
5500	23.635	18.041	6.50	4.70	11.20	10.49	21.23	10.74	48.64	35.16	83.80	19.23	29.97	10.74
5580	23.609	17.966	6.67	4.54	11.21	10.50	21.23	10.73	49.89	33.96	83.85	19.24	29.97	10.73
5700	23.210	18.064	5.87	5.55	11.42	10.58	21.23	10.65	43.95	41.50	85.45	19.32	29.97	10.65
5720	23.660	17.958	5.82	5.73	11.55	10.63	21.23	10.60	43.55	42.85	86.41	19.37	29.97	10.60
5745	-	17.951	2.23	1.79	4.02	6.04	27.26	21.22	16.67	13.40	30.07	14.78	36.00	21.22
5785	-	17.993	2.20	1.74	3.94	5.95	27.26	21.31	16.44	13.03	29.48	14.69	36.00	21.31
5825	-	18.000	2.52	1.85	4.37	6.41	27.26	20.85	18.88	13.84	32.72	15.15	36.00	20.85

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5260	0.00	-4.98	0.90	10.01	8.74	5.93	14.67	-3.45	1.00	9.87	8.74	7.42	16.16
5300	0.00	-4.75	0.90	10.01	8.74	6.16	14.90	-3.85	1.00	9.87	8.74	7.02	15.76
5320	0.00	-4.43	0.90	10.01	8.74	6.48	15.22	-3.92	1.00	9.87	8.74	6.95	15.69
5500	0.00	-2.78	0.90	10.01	8.74	8.13	16.87	-4.15	1.00	9.87	8.74	6.72	15.46
5580	0.00	-2.68	0.90	10.02	8.74	8.24	16.98	-4.30	1.00	9.87	8.74	6.57	15.31
5700	0.00	-3.25	0.90	10.04	8.74	7.69	16.43	-3.43	1.00	9.87	8.74	7.44	16.18
5720	0.00	-3.30	0.90	10.05	8.74	7.65	16.39	-3.29	1.00	9.87	8.74	7.58	16.32
5745	0.00	-7.47	0.90	10.05	8.74	3.48	12.22	-8.35	1.00	9.88	8.74	2.53	11.27
5785	0.00	-7.54	0.90	10.06	8.74	3.42	12.16	-8.47	1.00	9.88	8.74	2.41	11.15
5825	0.00	-6.94	0.90	10.06	8.74	4.02	12.76	-8.21	1.00	9.88	8.74	2.67	11.41

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ac-20

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5260	23.603	18.045	4.12	5.65	9.77	9.90	21.23	11.33	30.83	42.27	73.10	18.64	29.97	11.33
5300	23.321	18.019	4.19	5.06	9.25	9.66	21.23	11.57	31.33	37.84	69.18	18.40	29.97	11.57
5320	23.668	17.999	4.31	4.97	9.27	9.67	21.23	11.56	32.21	37.15	69.36	18.41	29.97	11.56
5500	23.392	18.015	6.62	4.81	11.43	10.58	21.23	10.65	49.55	35.97	85.52	19.32	29.97	10.65
5580	23.750	17.987	6.75	4.53	11.27	10.52	21.23	10.71	50.47	33.88	84.35	19.26	29.97	10.71
5700	23.698	18.047	5.82	5.68	11.50	10.61	21.23	10.62	43.55	42.46	86.01	19.35	29.97	10.62
5720	23.171	17.921	5.92	5.70	11.62	10.65	21.23	10.58	44.26	42.66	86.92	19.39	29.97	10.58
5745	-	17.990	2.17	1.82	3.99	6.01	27.26	21.25	16.26	13.58	29.84	14.75	36.00	21.25
5785	-	17.962	2.23	1.69	3.93	5.94	27.26	21.32	16.71	12.68	29.39	14.68	36.00	21.32
5825	-	17.973	2.62	1.74	4.36	6.39	27.26	20.87	19.59	13.03	32.62	15.13	36.00	20.87

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5260	0.00	-4.76	0.90	10.01	8.74	6.15	14.89	-3.35	1.00	9.87	8.74	7.52	16.26
5300	0.00	-4.69	0.90	10.01	8.74	6.22	14.96	-3.83	1.00	9.87	8.74	7.04	15.78
5320	0.00	-4.57	0.90	10.01	8.74	6.34	15.08	-3.91	1.00	9.87	8.74	6.96	15.70
5500	0.00	-2.70	0.90	10.01	8.74	8.21	16.95	-4.05	1.00	9.87	8.74	6.82	15.56
5580	0.00	-2.63	0.90	10.02	8.74	8.29	17.03	-4.31	1.00	9.87	8.74	6.56	15.30
5700	0.00	-3.29	0.90	10.04	8.74	7.65	16.39	-3.33	1.00	9.87	8.74	7.54	16.28
5720	0.00	-3.23	0.90	10.05	8.74	7.72	16.46	-3.31	1.00	9.87	8.74	7.56	16.30
5745	0.00	-7.58	0.90	10.05	8.74	3.37	12.11	-8.29	1.00	9.88	8.74	2.59	11.33
5785	0.00	-7.47	0.90	10.06	8.74	3.49	12.23	-8.59	1.00	9.88	8.74	2.29	11.03
5825	0.00	-6.78	0.90	10.06	8.74	4.18	12.92	-8.47	1.00	9.88	8.74	2.41	11.15

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 (OFDM)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested	26 dB	99%	Conducted power						e.i.r.p.					
Frequency	EBW	OBW	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	(B for FCC)	(B for IC)	1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	-	19.204	3.28	4.31	7.59	8.80	21.23	12.43	24.55	32.21	56.76	17.54	29.97	12.43
5220	-	19.181	3.39	4.28	7.66	8.84	21.23	12.39	25.35	31.99	57.34	17.58	29.97	12.39
5240	-	18.826	3.38	4.23	7.61	8.81	21.23	12.42	25.29	31.62	56.92	17.55	29.97	12.42
5260	23.794	19.174	1.70	2.24	3.95	5.96	21.23	15.27	12.74	16.79	29.52	14.70	29.97	15.27
5300	23.888	19.219	1.71	1.91	3.62	5.59	21.23	15.64	12.82	14.29	27.11	14.33	29.97	15.64
5320	24.850	19.266	1.77	1.87	3.64	5.61	21.23	15.62	13.24	13.96	27.21	14.35	29.97	15.62
5500	23.187	19.227	6.85	4.67	11.52	10.62	21.23	10.61	51.29	34.91	86.20	19.36	29.97	10.61
5580	24.341	19.207	6.84	4.52	11.36	10.55	21.23	10.68	51.17	33.81	84.97	19.29	29.97	10.68
5700	23.795	19.248	5.87	5.60	11.47	10.60	21.23	10.63	43.95	41.88	85.83	19.34	29.97	10.63
5720	22.513	19.198	6.03	5.70	11.73	10.69	21.23	10.54	45.08	42.66	87.74	19.43	29.97	10.54
5745	-	19.189	2.30	1.76	4.06	6.08	27.26	21.18	17.22	13.15	30.37	14.82	36.00	21.18
5785	-	19.215	2.26	1.74	4.00	6.02	27.26	21.24	16.90	13.03	29.94	14.76	36.00	21.24
5825	-	19.201	2.62	1.78	4.40	6.44	27.26	20.82	19.63	13.30	32.94	15.18	36.00	20.82

		Antenna 1						**Antenna 3**					
Tested	Duty	Power	Cable	Atten.	Antenna	Result		Power	Cable	Atten.	Antenna	Result	
Frequency	Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.
		Reading				Power		Reading				Power	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	0.00	-5.76	0.90	10.02	8.74	5.16	13.90	-4.52	1.00	9.86	8.74	6.34	15.08
5220	0.00	-5.62	0.90	10.02	8.74	5.30	14.04	-4.55	1.00	9.86	8.74	6.31	15.05
5240	0.00	-5.63	0.90	10.02	8.74	5.29	14.03	-4.60	1.00	9.86	8.74	6.26	15.00
5260	0.00	-8.60	0.90	10.01	8.74	2.31	11.05	-7.36	1.00	9.87	8.74	3.51	12.25
5300	0.00	-8.57	0.90	10.01	8.74	2.34	11.08	-8.06	1.00	9.87	8.74	2.81	11.55
5320	0.00	-8.43	0.90	10.01	8.74	2.48	11.22	-8.16	1.00	9.87	8.74	2.71	11.45
5500	0.00	-2.55	0.90	10.01	8.74	8.36	17.10	-4.18	1.00	9.87	8.74	6.69	15.43
5580	0.00	-2.57	0.90	10.02	8.74	8.35	17.09	-4.32	1.00	9.87	8.74	6.55	15.29
5700	0.00	-3.25	0.90	10.04	8.74	7.69	16.43	-3.39	1.00	9.87	8.74	7.48	16.22
5720	0.00	-3.15	0.90	10.05	8.74	7.80	16.54	-3.31	1.00	9.87	8.74	7.56	16.30
5745	0.00	-7.33	0.90	10.05	8.74	3.62	12.36	-8.43	1.00	9.88	8.74	2.45	11.19
5785	0.00	-7.42	0.90	10.06	8.74	3.54	12.28	-8.47	1.00	9.88	8.74	2.41	11.15
5825	0.00	-6.77	0.90	10.06	8.74	4.19	12.93	-8.38	1.00	9.88	8.74	2.50	11.24

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 OFDMA (26-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	0	-	19.111	0.42	0.47	0.90	-0.48	21.23	21.71	3.16	3.54	6.70	8.26	29.97	21.71
	4	-	16.996	0.43	0.46	0.89	-0.49	21.23	21.72	3.21	3.48	6.68	8.25	29.97	21.72
	8	-	19.231	0.41	0.44	0.86	-0.67	21.23	21.90	3.09	3.32	6.41	8.07	29.97	21.90
5220	0	-	19.044	0.42	0.48	0.90	-0.46	21.23	21.69	3.16	3.57	6.73	8.28	29.97	21.69
	4	-	17.060	0.43	0.47	0.90	-0.43	21.23	21.66	3.22	3.55	6.77	8.31	29.97	21.66
	8	-	19.141	0.43	0.45	0.88	-0.56	21.23	21.79	3.18	3.39	6.57	8.18	29.97	21.79
5240	0	-	18.169	0.44	0.48	0.91	-0.40	21.23	21.63	3.26	3.56	6.82	8.34	29.97	21.63
	4	-	16.854	0.46	0.49	0.94	-0.25	21.23	21.48	3.42	3.64	7.06	8.49	29.97	21.48
	8	-	18.154	0.43	0.45	0.88	-0.54	21.23	21.77	3.23	3.37	6.60	8.20	29.97	21.77
5260	0	20.415	19.168	0.19	0.24	0.43	-3.66	21.23	24.89	1.42	1.81	3.22	5.08	29.97	24.89
	4	18.038	17.026	0.20	0.24	0.44	-3.56	20.82	24.38	1.47	1.82	3.29	5.18	29.97	24.79
	8	20.595	19.122	0.19	0.23	0.43	-3.70	21.23	24.93	1.44	1.75	3.19	5.04	29.97	24.93
5300	0	20.634	19.182	0.20	0.22	0.42	-3.82	21.23	25.05	1.49	1.62	3.11	4.92	29.97	25.05
	4	18.017	17.033	0.21	0.22	0.42	-3.75	20.81	24.56	1.54	1.61	3.15	4.99	29.97	24.98
	8	20.284	19.159	0.20	0.21	0.41	-3.89	21.23	25.12	1.50	1.55	3.06	4.85	29.97	25.12
5320	0	20.427	19.078	0.20	0.21	0.41	-3.86	21.23	25.09	1.52	1.56	3.07	4.88	29.97	25.09
	4	18.046	17.040	0.21	0.21	0.42	-3.77	20.82	24.59	1.57	1.57	3.14	4.97	29.97	25.00
	8	20.467	19.146	0.21	0.20	0.40	-3.93	21.23	25.16	1.54	1.49	3.03	4.81	29.97	25.16

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	0	0.00	-14.66	0.90	10.02	8.74	-3.74	5.00	-14.11	1.00	9.86	8.74	-3.25	5.49
	4	0.00	-14.60	0.90	10.02	8.74	-3.68	5.06	-14.19	1.00	9.86	8.74	-3.33	5.41
	8	0.00	-14.76	0.90	10.02	8.74	-3.84	4.90	-14.39	1.00	9.86	8.74	-3.53	5.21
5220	0	0.00	-14.67	0.90	10.02	8.74	-3.75	4.99	-14.07	1.00	9.86	8.74	-3.21	5.53
	4	0.00	-14.58	0.90	10.02	8.74	-3.66	5.08	-14.10	1.00	9.86	8.74	-3.24	5.50
	8	0.00	-14.63	0.90	10.02	8.74	-3.71	5.03	-14.30	1.00	9.86	8.74	-3.44	5.30
5240	0	0.00	-14.53	0.90	10.02	8.74	-3.61	5.13	-14.08	1.00	9.86	8.74	-3.22	5.52
	4	0.00	-14.32	0.90	10.02	8.74	-3.40	5.34	-13.99	1.00	9.86	8.74	-3.13	5.61
	8	0.00	-14.57	0.90	10.02	8.74	-3.65	5.09	-14.32	1.00	9.86	8.74	-3.46	5.28
5260	0	0.00	-18.14	0.90	10.01	8.74	-7.23	1.51	-17.04	1.00	9.87	8.74	-6.17	2.57
	4	0.00	-17.98	0.90	10.01	8.74	-7.07	1.67	-17.00	1.00	9.87	8.74	-6.13	2.61
	8	0.00	-18.08	0.90	10.01	8.74	-7.17	1.57	-17.17	1.00	9.87	8.74	-6.30	2.44
5300	0	0.00	-17.93	0.90	10.01	8.74	-7.02	1.72	-17.51	1.00	9.87	8.74	-6.64	2.10
	4	0.00	-17.78	0.90	10.01	8.74	-6.87	1.87	-17.53	1.00	9.87	8.74	-6.66	2.08
	8	0.00	-17.88	0.90	10.01	8.74	-6.97	1.77	-17.70	1.00	9.87	8.74	-6.83	1.91
5320	0	0.00	-17.84	0.90	10.01	8.74	-6.93	1.81	-17.69	1.00	9.87	8.74	-6.82	1.92
	4	0.00	-17.70	0.90	10.01	8.74	-6.79	1.95	-17.65	1.00	9.87	8.74	-6.78	1.96
	8	0.00	-17.78	0.90	10.01	8.74	-6.87	1.87	-17.88	1.00	9.87	8.74	-7.01	1.73

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 OFDMA (26-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5500	0	20.888	19.131	0.88	0.58	1.45	1.63	21.23	19.60	6.58	4.31	10.88	10.37	29.97	19.60
	4	18.015	17.048	0.92	0.58	1.50	1.75	20.81	19.06	6.85	4.35	11.20	10.49	29.97	19.48
	8	20.634	19.098	0.86	0.56	1.42	1.52	21.23	19.71	6.41	4.20	10.61	10.26	29.97	19.71
5580	0	20.995	19.224	0.80	0.46	1.26	1.01	21.23	20.22	5.98	3.45	9.44	9.75	29.97	20.22
	4	18.079	17.018	0.80	0.45	1.26	0.99	20.83	19.84	6.00	3.40	9.39	9.73	29.97	20.24
	8	20.818	19.118	0.76	0.45	1.21	0.81	21.23	20.42	5.69	3.33	9.02	9.55	29.97	20.42
5700	0	20.208	19.153	0.73	0.60	1.32	1.21	21.23	20.02	5.43	4.46	9.89	9.95	29.97	20.02
	4	18.037	17.058	0.74	0.62	1.36	1.34	20.82	19.48	5.55	4.65	10.19	10.08	29.97	19.89
	8	20.938	19.097	0.71	0.59	1.30	1.13	21.23	20.10	5.30	4.42	9.71	9.87	29.97	20.10
5720	0	20.492	19.140	0.75	0.59	1.34	1.28	21.23	19.95	5.61	4.44	10.05	10.02	29.97	19.95
	4	18.068	17.061	0.74	0.61	1.36	1.32	20.82	19.50	5.55	4.59	10.14	10.06	29.97	19.91
	8	21.415	19.178	0.72	0.60	1.32	1.19	21.23	20.04	5.38	4.46	9.84	9.93	29.97	20.04
5745	0	-	19.079	0.30	0.21	0.50	-2.97	27.26	30.23	2.24	1.54	3.78	5.77	36.00	30.23
	4	-	17.037	0.31	0.21	0.52	-2.87	27.26	30.13	2.29	1.57	3.86	5.87	36.00	30.13
	8	-	19.111	0.30	0.21	0.51	-2.96	27.26	30.22	2.23	1.55	3.78	5.78	36.00	30.22
5785	0	-	19.006	0.31	0.20	0.51	-2.94	27.26	30.20	2.29	1.51	3.80	5.80	36.00	30.20
	4	-	17.034	0.31	0.21	0.52	-2.84	27.26	30.10	2.34	1.56	3.89	5.90	36.00	30.10
	8	-	19.179	0.30	0.20	0.50	-2.99	27.26	30.25	2.24	1.52	3.76	5.75	36.00	30.25
5825	0	-	19.040	0.35	0.22	0.57	-2.42	27.26	29.68	2.62	1.66	4.28	6.32	36.00	29.68
	4	-	17.048	0.36	0.23	0.59	-2.32	27.26	29.58	2.68	1.71	4.39	6.42	36.00	29.58
	8	-	19.097	0.34	0.22	0.57	-2.46	27.26	29.72	2.57	1.67	4.25	6.28	36.00	29.72

Tested Frequency	RU Index	Duty Factor	**Antenna 1** Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	**Antenna 3** Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5500	0	0.00	-11.47	0.90	10.01	8.74	-0.56	8.18	-13.27	1.00	9.87	8.74	-2.40	6.34
	4	0.00	-11.29	0.90	10.01	8.74	-0.38	8.36	-13.23	1.00	9.87	8.74	-2.36	6.38
	8	0.00	-11.58	0.90	10.01	8.74	-0.67	8.07	-13.38	1.00	9.87	8.74	-2.51	6.23
5580	0	0.00	-11.89	0.90	10.02	8.74	-0.97	7.77	-14.23	1.00	9.87	8.74	-3.36	5.38
	4	0.00	-11.88	0.90	10.02	8.74	-0.96	7.78	-14.30	1.00	9.87	8.74	-3.43	5.31
	8	0.00	-12.11	0.90	10.02	8.74	-1.19	7.55	-14.38	1.00	9.87	8.74	-3.51	5.23
5700	0	0.00	-12.33	0.90	10.04	8.74	-1.39	7.35	-13.12	1.00	9.87	8.74	-2.25	6.49
	4	0.00	-12.24	0.90	10.04	8.74	-1.30	7.44	-12.94	1.00	9.87	8.74	-2.07	6.67
	8	0.00	-12.44	0.90	10.04	8.74	-1.50	7.24	-13.16	1.00	9.87	8.74	-2.29	6.45
5720	0	0.00	-12.20	0.90	10.05	8.74	-1.25	7.49	-13.14	1.00	9.87	8.74	-2.27	6.47
	4	0.00	-12.25	0.90	10.05	8.74	-1.30	7.44	-12.99	1.00	9.87	8.74	-2.12	6.62
	8	0.00	-12.38	0.90	10.05	8.74	-1.43	7.31	-13.12	1.00	9.87	8.74	-2.25	6.49
5745	0	0.00	-16.19	0.90	10.05	8.74	-5.24	3.50	-17.75	1.00	9.88	8.74	-6.87	1.87
	4	0.00	-16.10	0.90	10.05	8.74	-5.15	3.59	-17.65	1.00	9.88	8.74	-6.77	1.97
	8	0.00	-16.20	0.90	10.05	8.74	-5.25	3.49	-17.72	1.00	9.88	8.74	-6.84	1.90
5785	0	0.00	-16.10	0.90	10.06	8.74	-5.14	3.60	-17.82	1.00	9.88	8.74	-6.94	1.80
	4	0.00	-16.01	0.90	10.06	8.74	-5.05	3.69	-17.70	1.00	9.88	8.74	-6.82	1.92
	8	0.00	-16.20	0.90	10.06	8.74	-5.24	3.50	-17.81	1.00	9.88	8.74	-6.93	1.81
5825	0	0.00	-15.51	0.90	10.06	8.74	-4.55	4.19	-17.42	1.00	9.88	8.74	-6.54	2.20
	4	0.00	-15.42	0.90	10.06	8.74	-4.46	4.28	-17.29	1.00	9.88	8.74	-6.41	2.33
	8	0.00	-15.60	0.90	10.06	8.74	-4.64	4.10	-17.38	1.00	9.88	8.74	-6.50	2.24

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 OFDMA (52-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	37	-	18.635	0.76	0.92	1.68	2.26	21.23	18.97	5.68	6.92	12.59	11.00	29.97	18.97
	38	-	17.088	0.76	0.93	1.69	2.29	21.23	18.94	5.71	6.97	12.68	11.03	29.97	18.94
	40	-	18.655	0.75	0.86	1.61	2.08	21.23	19.15	5.61	6.46	12.07	10.82	29.97	19.15
5220	37	-	18.717	0.77	0.91	1.68	2.25	21.23	18.98	5.74	6.82	12.56	10.99	29.97	18.98
	38	-	17.093	0.79	0.92	1.71	2.32	21.23	18.91	5.87	6.89	12.76	11.06	29.97	18.91
	40	-	18.669	0.76	0.86	1.63	2.11	21.23	19.12	5.71	6.46	12.17	10.85	29.97	19.12
5240	37	-	18.067	0.80	0.93	1.73	2.38	21.23	18.85	5.97	6.98	12.95	11.12	29.97	18.85
	38	-	16.873	0.79	0.92	1.71	2.33	21.23	18.90	5.90	6.90	12.80	11.07	29.97	18.90
	40	-	18.057	0.78	0.90	1.68	2.24	21.23	18.99	5.83	6.70	12.53	10.98	29.97	18.99
5260	37	20.759	18.732	0.35	0.45	0.80	-0.97	21.23	22.20	2.60	3.39	5.99	7.77	29.97	22.20
	38	18.208	17.091	0.35	0.46	0.81	-0.90	20.86	21.76	2.65	3.43	6.08	7.84	29.97	22.13
	40	20.464	18.651	0.35	0.43	0.78	-1.05	21.23	22.28	2.64	3.24	5.87	7.69	29.97	22.28
5300	37	21.074	18.663	0.37	0.40	0.77	-1.16	21.23	22.39	2.77	2.96	5.73	7.58	29.97	22.39
	38	18.189	17.097	0.38	0.40	0.78	-1.08	20.85	21.93	2.82	3.01	5.83	7.66	29.97	22.31
	40	20.196	18.726	0.37	0.38	0.75	-1.23	21.23	22.46	2.77	2.86	5.64	7.51	29.97	22.46
5320	37	20.773	18.731	0.38	0.38	0.76	-1.21	21.23	22.44	2.82	2.84	5.66	7.53	29.97	22.44
	38	18.188	17.085	0.38	0.38	0.76	-1.16	20.85	22.01	2.85	2.87	5.72	7.58	29.97	22.39
	40	21.215	18.667	0.37	0.37	0.74	-1.29	21.23	22.52	2.81	2.75	5.55	7.45	29.97	22.52

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	37	0.00	-12.12	0.90	10.02	8.74	-1.20	7.54	-11.20	1.00	9.86	8.74	-0.34	8.40
	38	0.00	-12.09	0.90	10.02	8.74	-1.17	7.57	-11.17	1.00	9.86	8.74	-0.31	8.43
	40	0.00	-12.17	0.90	10.02	8.74	-1.25	7.49	-11.50	1.00	9.86	8.74	-0.64	8.10
5220	37	0.00	-12.07	0.90	10.02	8.74	-1.15	7.59	-11.26	1.00	9.86	8.74	-0.40	8.34
	38	0.00	-11.97	0.90	10.02	8.74	-1.05	7.69	-11.22	1.00	9.86	8.74	-0.36	8.38
	40	0.00	-12.09	0.90	10.02	8.74	-1.17	7.57	-11.50	1.00	9.86	8.74	-0.64	8.10
5240	37	0.00	-11.90	0.90	10.02	8.74	-0.98	7.76	-11.16	1.00	9.86	8.74	-0.30	8.44
	38	0.00	-11.95	0.90	10.02	8.74	-1.03	7.71	-11.21	1.00	9.86	8.74	-0.35	8.39
	40	0.00	-12.00	0.90	10.02	8.74	-1.08	7.66	-11.34	1.00	9.86	8.74	-0.48	8.26
5260	37	0.00	-15.50	0.90	10.01	8.74	-4.59	4.15	-14.31	1.00	9.87	8.74	-3.44	5.30
	38	0.00	-15.42	0.90	10.01	8.74	-4.51	4.23	-14.26	1.00	9.87	8.74	-3.39	5.35
	40	0.00	-15.44	0.90	10.01	8.74	-4.53	4.21	-14.51	1.00	9.87	8.74	-3.64	5.10
5300	37	0.00	-15.22	0.90	10.01	8.74	-4.31	4.43	-14.90	1.00	9.87	8.74	-4.03	4.71
	38	0.00	-15.15	0.90	10.01	8.74	-4.24	4.50	-14.82	1.00	9.87	8.74	-3.95	4.79
	40	0.00	-15.22	0.90	10.01	8.74	-4.31	4.43	-15.04	1.00	9.87	8.74	-4.17	4.57
5320	37	0.00	-15.15	0.90	10.01	8.74	-4.24	4.50	-15.07	1.00	9.87	8.74	-4.20	4.54
	38	0.00	-15.10	0.90	10.01	8.74	-4.19	4.55	-15.03	1.00	9.87	8.74	-4.16	4.58
	40	0.00	-15.17	0.90	10.01	8.74	-4.26	4.48	-15.22	1.00	9.87	8.74	-4.35	4.39

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 OFDMA (52-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5500	37	20.706	18.716	1.80	1.13	2.94	4.68	21.23	16.55	13.49	8.47	21.96	13.42	29.97	16.55
	38	18.178	17.103	1.81	1.15	2.96	4.72	20.85	16.13	13.55	8.63	22.18	13.46	29.97	16.51
	40	21.115	18.703	1.75	1.14	2.89	4.61	21.23	16.62	13.09	8.55	21.64	13.35	29.97	16.62
5580	37	20.561	18.646	1.64	0.90	2.54	4.05	21.23	17.18	12.27	6.75	19.02	12.79	29.97	17.18
	38	18.215	17.071	1.64	0.92	2.57	4.10	20.86	16.76	12.30	6.92	19.22	12.84	29.97	17.13
	40	20.873	18.681	1.57	0.91	2.48	3.94	21.23	17.29	11.75	6.78	18.53	12.68	29.97	17.29
5700	37	20.716	18.652	1.47	1.21	2.67	4.27	21.23	16.96	10.96	9.04	20.00	13.01	29.97	16.96
	38	18.165	17.063	1.48	1.24	2.72	4.35	20.85	16.50	11.09	9.29	20.38	13.09	29.97	16.88
	40	21.951	18.654	1.44	1.21	2.65	4.23	21.23	17.00	10.76	9.04	19.80	12.97	29.97	17.00
5720	37	20.706	18.715	1.50	1.22	2.72	4.35	21.23	16.88	11.22	9.14	20.36	13.09	29.97	16.88
	38	18.206	17.091	1.50	1.22	2.73	4.36	20.86	16.50	11.25	9.16	20.41	13.10	29.97	16.87
	40	21.116	18.719	1.47	1.22	2.68	4.28	21.23	16.95	10.96	9.10	20.06	13.02	29.97	16.95
5745	37	-	18.667	0.64	0.43	1.07	0.27	27.26	26.99	4.76	3.21	7.97	9.01	36.00	26.99
	38	-	17.072	0.63	0.44	1.07	0.30	27.26	26.96	4.73	3.28	8.01	9.04	36.00	26.96
	40	-	18.740	0.62	0.44	1.06	0.26	27.26	27.00	4.67	3.27	7.94	9.00	36.00	27.00
5785	37	-	18.640	0.64	0.43	1.07	0.30	27.26	26.96	4.79	3.23	8.01	9.04	36.00	26.96
	38	-	17.084	0.65	0.44	1.09	0.37	27.26	26.89	4.88	3.28	8.16	9.11	36.00	26.89
	40	-	18.699	0.64	0.43	1.07	0.30	27.26	26.96	4.76	3.25	8.02	9.04	36.00	26.96
5825	37	-	18.928	0.73	0.46	1.19	0.76	27.26	26.50	5.46	3.46	8.92	9.50	36.00	26.50
	38	-	17.083	0.74	0.48	1.21	0.85	27.26	26.41	5.53	3.56	9.09	9.59	36.00	26.41
	40	-	18.711	0.73	0.46	1.19	0.75	27.26	26.51	5.43	3.47	8.90	9.49	36.00	26.51

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5500	37	0.00	-8.35	0.90	10.01	8.74	2.56	11.30	-10.33	1.00	9.87	8.74	0.54	9.28
	38	0.00	-8.33	0.90	10.01	8.74	2.58	11.32	-10.25	1.00	9.87	8.74	0.62	9.36
	40	0.00	-8.48	0.90	10.01	8.74	2.43	11.17	-10.29	1.00	9.87	8.74	0.58	9.32
5580	37	0.00	-8.77	0.90	10.02	8.74	2.15	10.89	-11.32	1.00	9.87	8.74	-0.45	8.29
	38	0.00	-8.76	0.90	10.02	8.74	2.16	10.90	-11.21	1.00	9.87	8.74	-0.34	8.40
	40	0.00	-8.96	0.90	10.02	8.74	1.96	10.70	-11.30	1.00	9.87	8.74	-0.43	8.31
5700	37	0.00	-9.28	0.90	10.04	8.74	1.66	10.40	-10.05	1.00	9.87	8.74	0.82	9.56
	38	0.00	-9.23	0.90	10.04	8.74	1.71	10.45	-9.93	1.00	9.87	8.74	0.94	9.68
	40	0.00	-9.36	0.90	10.04	8.74	1.58	10.32	-10.05	1.00	9.87	8.74	0.82	9.56
5720	37	0.00	-9.19	0.90	10.05	8.74	1.76	10.50	-10.00	1.00	9.87	8.74	0.87	9.61
	38	0.00	-9.18	0.90	10.05	8.74	1.77	10.51	-9.99	1.00	9.87	8.74	0.88	9.62
	40	0.00	-9.29	0.90	10.05	8.74	1.66	10.40	-10.02	1.00	9.87	8.74	0.85	9.59
5745	37	0.00	-12.91	0.90	10.05	8.74	-1.96	6.78	-14.56	1.00	9.88	8.74	-3.68	5.06
	38	0.00	-12.94	0.90	10.05	8.74	-1.99	6.75	-14.46	1.00	9.88	8.74	-3.58	5.16
	40	0.00	-13.00	0.90	10.05	8.74	-2.05	6.69	-14.47	1.00	9.88	8.74	-3.59	5.15
5785	37	0.00	-12.90	0.90	10.06	8.74	-1.94	6.80	-14.53	1.00	9.88	8.74	-3.65	5.09
	38	0.00	-12.82	0.90	10.06	8.74	-1.86	6.88	-14.46	1.00	9.88	8.74	-3.58	5.16
	40	0.00	-12.92	0.90	10.06	8.74	-1.96	6.78	-14.50	1.00	9.88	8.74	-3.62	5.12
5825	37	0.00	-12.33	0.90	10.06	8.74	-1.37	7.37	-14.23	1.00	9.88	8.74	-3.35	5.39
	38	0.00	-12.27	0.90	10.06	8.74	-1.31	7.43	-14.11	1.00	9.88	8.74	-3.23	5.51
	40	0.00	-12.35	0.90	10.06	8.74	-1.39	7.35	-14.22	1.00	9.88	8.74	-3.34	5.40

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 OFDMA (106-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	53	-	18.498	1.49	1.87	3.36	5.26	21.23	15.97	11.17	13.96	25.13	14.00	29.97	15.97
	54	-	18.425	1.53	1.84	3.37	5.28	21.23	15.95	11.48	13.74	25.22	14.02	29.97	15.95
5220	53	-	18.446	1.55	1.87	3.42	5.34	21.23	15.89	11.61	14.00	25.61	14.08	29.97	15.89
	54	-	18.415	1.53	1.82	3.35	5.26	21.23	15.97	11.46	13.65	25.10	14.00	29.97	15.97
5240	53	-	18.088	1.65	1.96	3.62	5.58	21.23	15.65	12.36	14.69	27.05	14.32	29.97	15.65
	54	-	18.039	1.63	1.93	3.57	5.52	21.23	15.71	12.22	14.45	26.67	14.26	29.97	15.71
5260	53	22.294	18.485	0.73	0.94	1.68	2.25	21.23	18.98	5.50	7.06	12.56	10.99	29.97	18.98
	54	21.409	18.470	0.75	0.92	1.67	2.23	21.23	19.00	5.64	6.85	12.49	10.97	29.97	19.00
5300	53	21.948	18.494	0.78	0.83	1.62	2.08	21.23	19.15	5.86	6.22	12.08	10.82	29.97	19.15
	54	21.289	18.462	0.78	0.81	1.59	2.02	21.23	19.21	5.82	6.08	11.90	10.76	29.97	19.21
5320	53	22.185	18.485	0.80	0.82	1.63	2.11	21.23	19.12	6.01	6.15	12.16	10.85	29.97	19.12
	54	21.325	18.450	0.79	0.80	1.59	2.01	21.23	19.22	5.92	5.96	11.87	10.75	29.97	19.22

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	53	0.00	-9.18	0.90	10.02	8.74	1.74	10.48	-8.15	1.00	9.86	8.74	2.71	11.45
	54	0.00	-9.06	0.90	10.02	8.74	1.86	10.60	-8.22	1.00	9.86	8.74	2.64	11.38
5220	53	0.00	-9.01	0.90	10.02	8.74	1.91	10.65	-8.14	1.00	9.86	8.74	2.72	11.46
	54	0.00	-9.07	0.90	10.02	8.74	1.85	10.59	-8.25	1.00	9.86	8.74	2.61	11.35
5240	53	0.00	-8.74	0.90	10.02	8.74	2.18	10.92	-7.93	1.00	9.86	8.74	2.93	11.67
	54	0.00	-8.79	0.90	10.02	8.74	2.13	10.87	-8.00	1.00	9.86	8.74	2.86	11.60
5260	53	0.00	-12.25	0.90	10.01	8.74	-1.34	7.40	-11.12	1.00	9.87	8.74	-0.25	8.49
	54	0.00	-12.14	0.90	10.01	8.74	-1.23	7.51	-11.25	1.00	9.87	8.74	-0.38	8.36
5300	53	0.00	-11.97	0.90	10.01	8.74	-1.06	7.68	-11.67	1.00	9.87	8.74	-0.80	7.94
	54	0.00	-12.00	0.90	10.01	8.74	-1.09	7.65	-11.77	1.00	9.87	8.74	-0.90	7.84
5320	53	0.00	-11.86	0.90	10.01	8.74	-0.95	7.79	-11.72	1.00	9.87	8.74	-0.85	7.89
	54	0.00	-11.93	0.90	10.01	8.74	-1.02	7.72	-11.86	1.00	9.87	8.74	-0.99	7.75

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 OFDMA (106-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5500	53	21.022	18.433	3.78	2.49	6.27	7.97	21.23	13.26	28.25	18.66	46.91	16.71	29.97	13.26
	54	23.131	18.462	3.67	2.56	6.24	7.95	21.23	13.28	27.48	19.19	46.67	16.69	29.97	13.28
5580	53	22.688	18.484	3.42	1.91	5.33	7.27	21.23	13.96	25.59	14.32	39.91	16.01	29.97	13.96
	54	20.906	18.443	3.33	1.90	5.23	7.18	21.23	14.05	24.89	14.22	39.11	15.92	29.97	14.05
5700	53	22.114	18.479	3.06	2.58	5.64	7.52	21.23	13.71	22.91	19.32	42.23	16.26	29.97	13.71
	54	21.414	18.472	2.97	2.60	5.57	7.46	21.23	13.77	22.23	19.45	41.69	16.20	29.97	13.77
5720	53	21.321	18.459	3.05	2.62	5.68	7.54	21.23	13.69	22.86	19.63	42.49	16.28	29.97	13.69
	54	21.377	18.523	2.98	2.59	5.57	7.46	21.23	13.77	22.28	19.36	41.65	16.20	29.97	13.77
5745	53	-	18.456	1.19	0.85	2.04	3.10	27.26	24.16	8.91	6.37	15.28	11.84	36.00	24.16
	54	-	18.481	1.19	0.85	2.04	3.10	27.26	24.16	8.93	6.34	15.27	11.84	36.00	24.16
5785	53	-	18.515	1.21	0.84	2.05	3.12	27.26	24.14	9.08	6.27	15.34	11.86	36.00	24.14
	54	-	18.464	1.19	0.82	2.02	3.04	27.26	24.22	8.91	6.17	15.08	11.78	36.00	24.22
5825	53	-	18.487	1.33	0.86	2.19	3.40	27.26	23.86	9.95	6.43	16.38	12.14	36.00	23.86
	54	-	18.400	1.33	0.85	2.18	3.39	27.26	23.87	9.98	6.34	16.32	12.13	36.00	23.87

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5500	53	0.00	-5.14	0.90	10.01	8.74	5.77	14.51	-6.90	1.00	9.87	8.74	3.97	12.71
	54	0.00	-5.26	0.90	10.01	8.74	5.65	14.39	-6.78	1.00	9.87	8.74	4.09	12.83
5580	53	0.00	-5.58	0.90	10.02	8.74	5.34	14.08	-8.05	1.00	9.87	8.74	2.82	11.56
	54	0.00	-5.70	0.90	10.02	8.74	5.22	13.96	-8.08	1.00	9.87	8.74	2.79	11.53
5700	53	0.00	-6.08	0.90	10.04	8.74	4.86	13.60	-6.75	1.00	9.87	8.74	4.12	12.86
	54	0.00	-6.21	0.90	10.04	8.74	4.73	13.47	-6.72	1.00	9.87	8.74	4.15	12.89
5720	53	0.00	-6.10	0.90	10.05	8.74	4.85	13.59	-6.68	1.00	9.87	8.74	4.19	12.93
	54	0.00	-6.21	0.90	10.05	8.74	4.74	13.48	-6.74	1.00	9.87	8.74	4.13	12.87
5745	53	0.00	-10.19	0.90	10.05	8.74	0.76	9.50	-11.58	1.00	9.88	8.74	-0.70	8.04
	54	0.00	-10.18	0.90	10.05	8.74	0.77	9.51	-11.60	1.00	9.88	8.74	-0.72	8.02
5785	53	0.00	-10.12	0.90	10.06	8.74	0.84	9.58	-11.65	1.00	9.88	8.74	-0.77	7.97
	54	0.00	-10.20	0.90	10.06	8.74	0.76	9.50	-11.72	1.00	9.88	8.74	-0.84	7.90
5825	53	0.00	-9.72	0.90	10.06	8.74	1.24	9.98	-11.54	1.00	9.88	8.74	-0.66	8.08
	54	0.00	-9.71	0.90	10.06	8.74	1.25	9.99	-11.60	1.00	9.88	8.74	-0.72	8.02

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-20 OFDMA (242-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested	26 dB	99%	Conducted power						e.i.r.p.					
Frequency	EBW	OBW	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	(B for FCC)	(B for IC)	1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	-	19.189	3.30	4.19	7.49	8.75	21.23	12.48	24.72	31.33	56.05	17.49	29.97	12.48
5220	-	19.265	3.32	4.15	7.47	8.73	21.23	12.50	24.83	31.05	55.88	17.47	29.97	12.50
5240	-	18.842	3.37	4.04	7.40	8.69	21.23	12.54	25.18	30.20	55.38	17.43	29.97	12.54
5260	24.575	19.228	1.67	2.21	3.88	5.89	21.23	15.34	12.50	16.56	29.06	14.63	29.97	15.34
5300	24.053	19.324	1.73	1.87	3.60	5.57	21.23	15.66	12.94	14.03	26.97	14.31	29.97	15.66
5320	23.187	19.207	1.77	1.88	3.65	5.63	21.23	15.60	13.24	14.09	27.34	14.37	29.97	15.60
5500	22.288	19.200	6.76	4.59	11.35	10.55	21.23	10.68	50.58	34.36	84.94	19.29	29.97	10.68
5580	26.339	19.243	7.28	4.32	11.59	10.64	21.23	10.59	54.45	32.28	86.74	19.38	29.97	10.59
5700	22.837	19.210	6.12	5.46	11.58	10.64	21.23	10.59	45.81	40.83	86.65	19.38	29.97	10.59
5720	25.450	19.236	6.12	5.51	11.63	10.66	21.23	10.57	45.81	41.21	87.02	19.40	29.97	10.57
5745	-	19.256	2.31	1.70	4.01	6.04	27.26	21.22	17.30	12.74	30.03	14.78	36.00	21.22
5785	-	19.185	2.39	1.77	4.15	6.18	27.26	21.08	17.86	13.21	31.08	14.92	36.00	21.08
5825	-	19.231	2.72	1.79	4.51	6.54	27.26	20.72	20.37	13.40	33.77	15.28	36.00	20.72

		Antenna 1						**Antenna 3**					
Tested	Duty	Power	Cable	Atten.	Antenna	Result		Power	Cable	Atten.	Antenna	Result	
Frequency	Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.
		Reading				Power		Reading				Power	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	0.00	-5.73	0.90	10.02	8.74	5.19	13.93	-4.64	1.00	9.86	8.74	6.22	14.96
5220	0.00	-5.71	0.90	10.02	8.74	5.21	13.95	-4.68	1.00	9.86	8.74	6.18	14.92
5240	0.00	-5.65	0.90	10.02	8.74	5.27	14.01	-4.80	1.00	9.86	8.74	6.06	14.80
5260	0.00	-8.68	0.90	10.01	8.74	2.23	10.97	-7.42	1.00	9.87	8.74	3.45	12.19
5300	0.00	-8.53	0.90	10.01	8.74	2.38	11.12	-8.14	1.00	9.87	8.74	2.73	11.47
5320	0.00	-8.43	0.90	10.01	8.74	2.48	11.22	-8.12	1.00	9.87	8.74	2.75	11.49
5500	0.00	-2.61	0.90	10.01	8.74	8.30	17.04	-4.25	1.00	9.87	8.74	6.62	15.36
5580	0.00	-2.30	0.90	10.02	8.74	8.62	17.36	-4.52	1.00	9.87	8.74	6.35	15.09
5700	0.00	-3.07	0.90	10.04	8.74	7.87	16.61	-3.50	1.00	9.87	8.74	7.37	16.11
5720	0.00	-3.08	0.90	10.05	8.74	7.87	16.61	-3.46	1.00	9.87	8.74	7.41	16.15
5745	0.00	-7.31	0.90	10.05	8.74	3.64	12.38	-8.57	1.00	9.88	8.74	2.31	11.05
5785	0.00	-7.18	0.90	10.06	8.74	3.78	12.52	-8.41	1.00	9.88	8.74	2.47	11.21
5825	0.00	-6.61	0.90	10.06	8.74	4.35	13.09	-8.35	1.00	9.88	8.74	2.53	11.27

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11n-40

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5270	39.234	35.964	3.13	5.08	8.21	9.14	21.23	12.09	23.39	38.02	61.41	17.88	29.97	12.09
5310	39.020	35.982	3.33	4.39	7.72	8.88	21.23	12.35	24.95	32.81	57.76	17.62	29.97	12.35
5510	39.197	35.941	5.98	4.53	10.51	10.22	21.23	11.01	44.77	33.88	78.66	18.96	29.97	11.01
5550	39.138	35.852	5.56	4.49	10.05	10.02	21.23	11.21	41.59	33.57	75.16	18.76	29.97	11.21
5670	39.191	35.963	5.25	5.69	10.94	10.39	21.23	10.84	39.26	42.56	81.82	19.13	29.97	10.84
5710	39.015	36.033	5.31	5.58	10.89	10.37	21.23	10.86	39.72	41.78	81.50	19.11	29.97	10.86
5755	-	35.946	2.08	1.72	3.81	5.81	27.26	21.45	15.60	12.88	28.48	14.55	36.00	21.45
5795	-	35.845	2.08	1.71	3.80	5.80	27.26	21.46	15.60	12.82	28.42	14.54	36.00	21.46

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5270	0.00	-5.96	0.90	10.01	8.74	4.95	13.69	-3.81	1.00	9.87	8.74	7.06	15.80
5310	0.00	-5.68	0.90	10.01	8.74	5.23	13.97	-4.45	1.00	9.87	8.74	6.42	15.16
5510	0.00	-3.14	0.90	10.01	8.74	7.77	16.51	-4.31	1.00	9.87	8.74	6.56	15.30
5550	0.00	-3.47	0.90	10.02	8.74	7.45	16.19	-4.35	1.00	9.87	8.74	6.52	15.26
5670	0.00	-3.74	0.90	10.04	8.74	7.20	15.94	-3.32	1.00	9.87	8.74	7.55	16.29
5710	0.00	-3.69	0.90	10.04	8.74	7.25	15.99	-3.40	1.00	9.87	8.74	7.47	16.21
5755	0.00	-7.76	0.90	10.05	8.74	3.19	11.93	-8.52	1.00	9.88	8.74	2.36	11.10
5795	0.00	-7.77	0.90	10.06	8.74	3.19	11.93	-8.54	1.00	9.88	8.74	2.34	11.08

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ac-40

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5270	39.328	35.961	3.07	5.02	8.09	9.08	21.23	12.15	22.96	37.58	60.55	17.82	29.97	12.15
5310	38.858	35.956	3.24	4.38	7.62	8.82	21.23	12.41	24.27	32.73	57.00	17.56	29.97	12.41
5510	38.976	35.996	6.01	4.59	10.60	10.25	21.23	10.98	44.98	34.36	79.33	18.99	29.97	10.98
5550	39.177	35.901	5.52	4.36	9.88	9.95	21.23	11.28	41.30	32.58	73.89	18.69	29.97	11.28
5670	38.950	35.989	5.30	5.62	10.92	10.38	21.23	10.85	39.63	42.07	81.70	19.12	29.97	10.85
5710	39.002	35.927	5.31	5.53	10.84	10.35	21.23	10.88	39.72	41.40	81.12	19.09	29.97	10.88
5755	-	35.895	2.05	1.71	3.77	5.76	27.26	21.50	15.35	12.82	28.17	14.50	36.00	21.50
5795	-	36.019	1.96	1.74	3.70	5.68	27.26	21.58	14.69	13.00	27.69	14.42	36.00	21.58

	Antenna 1							**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5270	0.00	-6.04	0.90	10.01	8.74	4.87	13.61	-3.86	1.00	9.87	8.74	7.01	15.75
5310	0.00	-5.80	0.90	10.01	8.74	5.11	13.85	-4.46	1.00	9.87	8.74	6.41	15.15
5510	0.00	-3.12	0.90	10.01	8.74	7.79	16.53	-4.25	1.00	9.87	8.74	6.62	15.36
5550	0.00	-3.50	0.90	10.02	8.74	7.42	16.16	-4.48	1.00	9.87	8.74	6.39	15.13
5670	0.00	-3.70	0.90	10.04	8.74	7.24	15.98	-3.37	1.00	9.87	8.74	7.50	16.24
5710	0.00	-3.69	0.90	10.04	8.74	7.25	15.99	-3.44	1.00	9.87	8.74	7.43	16.17
5755	0.00	-7.83	0.90	10.05	8.74	3.12	11.86	-8.54	1.00	9.88	8.74	2.34	11.08
5795	0.00	-8.03	0.90	10.06	8.74	2.93	11.67	-8.48	1.00	9.88	8.74	2.40	11.14

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 (OFDM)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5270	39.559	37.501	3.15	5.20	8.35	9.22	21.23	12.01	23.55	38.90	62.46	17.96	29.97	12.01
5310	39.518	37.479	3.29	4.61	7.90	8.98	21.23	12.25	24.60	34.51	59.12	17.72	29.97	12.25
5510	39.495	37.546	6.01	4.84	10.85	10.36	21.23	10.87	44.98	36.22	81.20	19.10	29.97	10.87
5550	39.492	37.468	5.50	4.59	10.09	10.04	21.23	11.19	41.11	34.36	75.47	18.78	29.97	11.19
5670	39.543	37.458	5.33	5.93	11.26	10.52	21.23	10.71	39.90	44.36	84.26	19.26	29.97	10.71
5710	39.519	37.507	5.43	5.81	11.24	10.51	21.23	10.72	40.64	43.45	84.10	19.25	29.97	10.72
5755	-	37.467	2.08	1.85	3.93	5.95	27.26	21.31	15.60	13.84	29.43	14.69	36.00	21.31
5795	-	37.515	2.06	1.82	3.88	5.88	27.26	21.38	15.42	13.58	29.00	14.62	36.00	21.38

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5270	0.00	-5.93	0.90	10.01	8.74	4.98	13.72	-3.71	1.00	9.87	8.74	7.16	15.90
5310	0.00	-5.74	0.90	10.01	8.74	5.17	13.91	-4.23	1.00	9.87	8.74	6.64	15.38
5510	0.00	-3.12	0.90	10.01	8.74	7.79	16.53	-4.02	1.00	9.87	8.74	6.85	15.59
5550	0.00	-3.52	0.90	10.02	8.74	7.40	16.14	-4.25	1.00	9.87	8.74	6.62	15.36
5670	0.00	-3.67	0.90	10.04	8.74	7.27	16.01	-3.14	1.00	9.87	8.74	7.73	16.47
5710	0.00	-3.59	0.90	10.04	8.74	7.35	16.09	-3.23	1.00	9.87	8.74	7.64	16.38
5755	0.00	-7.76	0.90	10.05	8.74	3.19	11.93	-8.21	1.00	9.88	8.74	2.67	11.41
5795	0.00	-7.82	0.90	10.06	8.74	3.14	11.88	-8.29	1.00	9.88	8.74	2.59	11.33

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (26-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	0	-	18.100	0.35	0.45	0.80	-0.98	21.23	22.21	2.63	3.33	5.96	7.76	29.97	22.21
	8	-	21.848	0.40	0.49	0.88	-0.53	21.23	21.76	2.98	3.64	6.62	8.21	29.97	21.76
	17	-	18.010	0.34	0.41	0.75	-1.27	21.23	22.50	2.54	3.05	5.59	7.47	29.97	22.50
5230	0	-	18.048	0.36	0.43	0.79	-1.02	21.23	22.25	2.67	3.25	5.92	7.72	29.97	22.25
	8	-	21.679	0.40	0.49	0.89	-0.50	21.23	21.73	3.01	3.65	6.66	8.24	29.97	21.73
	17	-	18.008	0.34	0.40	0.74	-1.30	21.23	22.53	2.52	3.02	5.54	7.44	29.97	22.53
5270	0	19.083	18.083	0.16	0.23	0.39	-4.13	21.06	25.19	1.17	1.71	2.89	4.61	29.97	25.36
	8	22.257	21.674	0.18	0.26	0.44	-3.57	21.23	24.80	1.36	1.92	3.29	5.17	29.97	24.80
	17	19.057	18.081	0.16	0.21	0.37	-4.30	21.06	25.36	1.19	1.59	2.78	4.44	29.97	25.53
5310	0	19.153	18.084	0.16	0.19	0.35	-4.53	21.08	25.61	1.23	1.41	2.64	4.21	29.97	25.76
	8	21.818	21.256	0.19	0.21	0.40	-4.00	21.23	25.23	1.43	1.55	2.98	4.74	29.97	25.23
	17	19.065	18.092	0.17	0.18	0.34	-4.67	21.06	25.73	1.24	1.31	2.55	4.07	29.97	25.90

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	0	0.00	-15.46	0.90	10.02	8.74	-4.54	4.20	-14.37	1.00	9.86	8.74	-3.51	5.23
	8	0.00	-14.92	0.90	10.02	8.74	-4.00	4.74	-13.99	1.00	9.86	8.74	-3.13	5.61
	17	0.00	-15.62	0.90	10.02	8.74	-4.70	4.04	-14.75	1.00	9.86	8.74	-3.89	4.85
5230	0	0.00	-15.40	0.90	10.02	8.74	-4.48	4.26	-14.48	1.00	9.86	8.74	-3.62	5.12
	8	0.00	-14.87	0.90	10.02	8.74	-3.95	4.79	-13.98	1.00	9.86	8.74	-3.12	5.62
	17	0.00	-15.64	0.90	10.02	8.74	-4.72	4.02	-14.80	1.00	9.86	8.74	-3.94	4.80
5270	0	0.00	-18.95	0.90	10.01	8.74	-8.04	0.70	-17.27	1.00	9.87	8.74	-6.40	2.34
	8	0.00	-18.30	0.90	10.01	8.74	-7.39	1.35	-16.77	1.00	9.87	8.74	-5.90	2.84
	17	0.00	-18.90	0.90	10.01	8.74	-7.99	0.75	-17.60	1.00	9.87	8.74	-6.73	2.01
5310	0	0.00	-18.76	0.90	10.01	8.74	-7.85	0.89	-18.12	1.00	9.87	8.74	-7.25	1.49
	8	0.00	-18.10	0.90	10.01	8.74	-7.19	1.55	-17.70	1.00	9.87	8.74	-6.83	1.91
	17	0.00	-18.71	0.90	10.01	8.74	-7.80	0.94	-18.43	1.00	9.87	8.74	-7.56	1.18

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (26-tone RU)

Antenna 1+3 Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5510	0	19.071	18.098	0.72	0.52	1.25	0.96	21.06	20.10	5.42	3.91	9.33	9.70	29.97	20.27
	8	21.924	21.510	0.81	0.59	1.41	1.48	21.23	19.75	6.10	4.44	10.53	10.22	29.97	19.75
	17	19.029	18.097	0.71	0.51	1.21	0.84	21.05	20.21	5.28	3.79	9.08	9.58	29.97	20.39
5550	0	19.112	18.100	0.67	0.50	1.18	0.70	21.07	20.37	5.04	3.76	8.79	9.44	29.97	20.53
	8	22.162	21.322	0.75	0.57	1.32	1.20	21.23	20.03	5.60	4.28	9.87	9.94	29.97	20.03
	17	19.058	18.076	0.65	0.49	1.14	0.55	21.06	20.51	4.83	3.66	8.49	9.29	29.97	20.68
5670	0	19.120	18.035	0.62	0.55	1.17	0.70	21.07	20.37	4.66	4.13	8.79	9.44	29.97	20.53
	8	21.697	21.181	0.71	0.65	1.36	1.34	21.23	19.89	5.28	4.90	10.18	10.08	29.97	19.89
	17	19.102	18.115	0.60	0.55	1.15	0.60	21.07	20.47	4.50	4.10	8.60	9.34	29.97	20.63
5710	0	19.109	18.057	0.62	0.56	1.18	0.72	21.07	20.35	4.66	4.17	8.82	9.46	29.97	20.51
	8	22.008	21.273	0.69	0.65	1.34	1.27	21.23	19.96	5.19	4.83	10.02	10.01	29.97	19.96
	17	19.072	18.035	0.59	0.55	1.14	0.57	21.06	20.49	4.44	4.09	8.53	9.31	29.97	20.66
5755	0	-	18.045	0.26	0.19	0.45	-3.49	27.26	30.75	1.91	1.44	3.35	5.25	36.00	30.75
	8	-	21.525	0.30	0.23	0.52	-2.81	27.26	30.07	2.23	1.69	3.91	5.93	36.00	30.07
	17	-	18.119	0.25	0.19	0.45	-3.51	27.26	30.77	1.88	1.45	3.34	5.23	36.00	30.77
5795	0	-	18.069	0.26	0.19	0.45	-3.44	27.26	30.70	1.94	1.45	3.39	5.30	36.00	30.70
	8	-	21.426	0.30	0.23	0.53	-2.78	27.26	30.04	2.25	1.69	3.94	5.96	36.00	30.04
	17	-	18.136	0.25	0.19	0.44	-3.55	27.26	30.81	1.86	1.44	3.30	5.19	36.00	30.81

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5510	0	0.00	-12.31	0.90	10.01	8.74	-1.40	7.34	-13.69	1.00	9.87	8.74	-2.82	5.92
	8	0.00	-11.80	0.90	10.01	8.74	-0.89	7.85	-13.14	1.00	9.87	8.74	-2.27	6.47
	17	0.00	-12.42	0.90	10.01	8.74	-1.51	7.23	-13.82	1.00	9.87	8.74	-2.95	5.79
5550	0	0.00	-12.64	0.90	10.02	8.74	-1.72	7.02	-13.86	1.00	9.87	8.74	-2.99	5.75
	8	0.00	-12.18	0.90	10.02	8.74	-1.26	7.48	-13.30	1.00	9.87	8.74	-2.43	6.31
	17	0.00	-12.82	0.90	10.02	8.74	-1.90	6.84	-13.97	1.00	9.87	8.74	-3.10	5.64
5670	0	0.00	-13.00	0.90	10.04	8.74	-2.06	6.68	-13.45	1.00	9.87	8.74	-2.58	6.16
	8	0.00	-12.45	0.90	10.04	8.74	-1.51	7.23	-12.71	1.00	9.87	8.74	-1.84	6.90
	17	0.00	-13.15	0.90	10.04	8.74	-2.21	6.53	-13.48	1.00	9.87	8.74	-2.61	6.13
5710	0	0.00	-13.00	0.90	10.04	8.74	-2.06	6.68	-13.41	1.00	9.87	8.74	-2.54	6.20
	8	0.00	-12.53	0.90	10.04	8.74	-1.59	7.15	-12.77	1.00	9.87	8.74	-1.90	6.84
	17	0.00	-13.21	0.90	10.04	8.74	-2.27	6.47	-13.49	1.00	9.87	8.74	-2.62	6.12
5755	0	0.00	-16.88	0.90	10.05	8.74	-5.93	2.81	-18.04	1.00	9.88	8.74	-7.16	1.58
	8	0.00	-16.21	0.90	10.05	8.74	-5.26	3.48	-17.35	1.00	9.88	8.74	-6.47	2.27
	17	0.00	-16.94	0.90	10.05	8.74	-5.99	2.75	-18.00	1.00	9.88	8.74	-7.12	1.62
5795	0	0.00	-16.82	0.90	10.06	8.74	-5.86	2.88	-18.02	1.00	9.88	8.74	-7.14	1.60
	8	0.00	-16.17	0.90	10.06	8.74	-5.21	3.53	-17.34	1.00	9.88	8.74	-6.46	2.28
	17	0.00	-17.00	0.90	10.06	8.74	-6.04	2.70	-18.03	1.00	9.88	8.74	-7.15	1.59

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (52-tone RU)

Antenna 1+3 Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	37	-	18.029	0.63	0.84	1.48	1.69	21.23	19.54	4.73	6.31	11.04	10.43	29.97	19.54
	40	-	22.102	0.71	0.94	1.66	2.19	21.23	19.04	5.32	7.06	12.38	10.93	29.97	19.04
	44	-	17.940	0.61	0.78	1.39	1.43	21.23	19.80	4.55	5.85	10.40	10.17	29.97	19.80
5230	37	-	18.030	0.64	0.88	1.52	1.81	21.23	19.42	4.78	6.58	11.35	10.55	29.97	19.42
	40	-	22.572	0.73	0.93	1.66	2.21	21.23	19.02	5.48	6.95	12.43	10.95	29.97	19.02
	44	-	17.973	0.63	0.79	1.42	1.53	21.23	19.70	4.74	5.89	10.63	10.27	29.97	19.70
5270	37	19.195	17.995	0.26	0.42	0.69	-1.64	21.09	22.73	1.97	3.16	5.13	7.10	29.97	22.87
	40	25.381	22.072	0.29	0.47	0.76	-1.17	21.23	22.40	2.19	3.53	5.72	7.57	29.97	22.40
	44	19.327	17.939	0.27	0.41	0.68	-1.67	21.12	22.79	2.01	3.08	5.09	7.07	29.97	22.90
5310	37	19.250	17.976	0.26	0.37	0.63	-2.01	21.10	23.11	1.96	2.75	4.71	6.73	29.97	23.24
	40	23.483	23.477	0.30	0.39	0.69	-1.61	21.23	22.84	2.25	2.90	5.16	7.13	29.97	22.84
	44	19.327	18.004	0.26	0.33	0.60	-2.24	21.12	23.36	1.98	2.48	4.46	6.50	29.97	23.47

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	37	0.00	-12.91	0.90	10.02	8.74	-1.99	6.75	-11.60	1.00	9.86	8.74	-0.74	8.00
	40	0.00	-12.40	0.90	10.02	8.74	-1.48	7.26	-11.11	1.00	9.86	8.74	-0.25	8.49
	44	0.00	-13.08	0.90	10.02	8.74	-2.16	6.58	-11.93	1.00	9.86	8.74	-1.07	7.67
5230	37	0.00	-12.87	0.90	10.02	8.74	-1.95	6.79	-11.42	1.00	9.86	8.74	-0.56	8.18
	40	0.00	-12.27	0.90	10.02	8.74	-1.35	7.39	-11.18	1.00	9.86	8.74	-0.32	8.42
	44	0.00	-12.90	0.90	10.02	8.74	-1.98	6.76	-11.90	1.00	9.86	8.74	-1.04	7.70
5270	37	0.00	-16.71	0.90	10.01	8.74	-5.80	2.94	-14.61	1.00	9.87	8.74	-3.74	5.00
	40	0.00	-16.25	0.90	10.01	8.74	-5.34	3.40	-14.13	1.00	9.87	8.74	-3.26	5.48
	44	0.00	-16.62	0.90	10.01	8.74	-5.71	3.03	-14.72	1.00	9.87	8.74	-3.85	4.89
5310	37	0.00	-16.72	0.90	10.01	8.74	-5.81	2.93	-15.22	1.00	9.87	8.74	-4.35	4.39
	40	0.00	-16.12	0.90	10.01	8.74	-5.21	3.53	-14.98	1.00	9.87	8.74	-4.11	4.63
	44	0.00	-16.69	0.90	10.01	8.74	-5.78	2.96	-15.66	1.00	9.87	8.74	-4.79	3.95

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (52-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5510	37	19.262	17.939	1.48	1.07	2.55	4.07	21.10	17.03	11.09	8.00	19.09	12.81	29.97	17.16
	40	23.993	22.658	1.67	1.22	2.89	4.61	21.23	16.62	12.47	9.14	21.61	13.35	29.97	16.62
	44	19.381	17.899	1.45	1.06	2.51	3.99	21.13	17.14	10.81	7.94	18.76	12.73	29.97	17.24
5550	37	19.189	17.987	1.40	1.02	2.42	3.83	21.09	17.26	10.47	7.60	18.07	12.57	29.97	17.40
	40	24.273	22.939	1.55	1.18	2.73	4.37	21.23	16.86	11.61	8.83	20.45	13.11	29.97	16.86
	44	19.343	17.960	1.33	1.01	2.35	3.71	21.12	17.41	9.98	7.59	17.56	12.45	29.97	17.52
5670	37	19.224	17.951	1.24	1.14	2.37	3.75	21.09	17.34	9.25	8.51	17.76	12.49	29.97	17.48
	40	23.381	22.144	1.39	1.34	2.74	4.37	21.23	16.86	10.42	10.05	20.47	13.11	29.97	16.86
	44	19.311	17.916	1.20	1.15	2.35	3.72	21.11	17.39	8.97	8.63	17.60	12.46	29.97	17.51
5710	37	19.223	17.957	1.25	1.15	2.40	3.80	21.09	17.29	9.33	8.61	17.94	12.54	29.97	17.43
	40	24.165	22.140	1.43	1.36	2.78	4.44	21.23	16.79	10.67	10.14	20.81	13.18	29.97	16.79
	44	19.368	17.992	1.22	1.14	2.36	3.73	21.13	17.40	9.10	8.55	17.65	12.47	29.97	17.50
5755	37	-	17.909	0.52	0.41	0.93	-0.30	27.26	27.56	3.92	3.06	6.98	8.44	36.00	27.56
	40	-	22.126	0.61	0.47	1.07	0.31	27.26	26.95	4.54	3.50	8.04	9.05	36.00	26.95
	44	-	17.961	0.51	0.40	0.91	-0.43	27.26	27.69	3.81	2.96	6.78	8.31	36.00	27.69
5795	37	-	17.937	0.52	0.40	0.92	-0.38	27.26	27.64	3.86	2.99	6.86	8.36	36.00	27.64
	40	-	21.055	0.60	0.46	1.06	0.26	27.26	27.00	4.47	3.47	7.93	9.00	36.00	27.00
	44	-	17.960	0.50	0.39	0.89	-0.49	27.26	27.75	3.78	2.90	6.68	8.25	36.00	27.75

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5510	37	0.00	-9.20	0.90	10.01	8.74	1.71	10.45	-10.58	1.00	9.87	8.74	0.29	9.03
	40	0.00	-8.69	0.90	10.01	8.74	2.22	10.96	-10.00	1.00	9.87	8.74	0.87	9.61
	44	0.00	-9.31	0.90	10.01	8.74	1.60	10.34	-10.61	1.00	9.87	8.74	0.26	9.00
5550	37	0.00	-9.46	0.90	10.02	8.74	1.46	10.20	-10.80	1.00	9.87	8.74	0.07	8.81
	40	0.00	-9.01	0.90	10.02	8.74	1.91	10.65	-10.15	1.00	9.87	8.74	0.72	9.46
	44	0.00	-9.67	0.90	10.02	8.74	1.25	9.99	-10.81	1.00	9.87	8.74	0.06	8.80
5670	37	0.00	-10.02	0.90	10.04	8.74	0.92	9.66	-10.31	1.00	9.87	8.74	0.56	9.30
	40	0.00	-9.50	0.90	10.04	8.74	1.44	10.18	-9.59	1.00	9.87	8.74	1.28	10.02
	44	0.00	-10.15	0.90	10.04	8.74	0.79	9.53	-10.25	1.00	9.87	8.74	0.62	9.36
5710	37	0.00	-9.98	0.90	10.04	8.74	0.96	9.70	-10.26	1.00	9.87	8.74	0.61	9.35
	40	0.00	-9.40	0.90	10.04	8.74	1.54	10.28	-9.55	1.00	9.87	8.74	1.32	10.06
	44	0.00	-10.09	0.90	10.04	8.74	0.85	9.59	-10.29	1.00	9.87	8.74	0.58	9.32
5755	37	0.00	-13.76	0.90	10.05	8.74	-2.81	5.93	-14.76	1.00	9.88	8.74	-3.88	4.86
	40	0.00	-13.12	0.90	10.05	8.74	-2.17	6.57	-14.18	1.00	9.88	8.74	-3.30	5.44
	44	0.00	-13.88	0.90	10.05	8.74	-2.93	5.81	-14.90	1.00	9.88	8.74	-4.02	4.72
5795	37	0.00	-13.83	0.90	10.06	8.74	-2.87	5.87	-14.86	1.00	9.88	8.74	-3.98	4.76
	40	0.00	-13.20	0.90	10.06	8.74	-2.24	6.50	-14.22	1.00	9.88	8.74	-3.34	5.40
	44	0.00	-13.93	0.90	10.06	8.74	-2.97	5.77	-14.99	1.00	9.88	8.74	-4.11	4.63

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (106-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	53	-	17.757	1.27	1.80	3.07	4.88	21.23	16.35	9.51	13.49	23.00	13.62	29.97	16.35
	54	-	20.558	1.44	1.90	3.34	5.24	21.23	15.99	10.76	14.22	24.99	13.98	29.97	15.99
	56	-	17.728	1.29	1.70	2.99	4.76	21.23	16.47	9.68	12.71	22.39	13.50	29.97	16.47
5230	53	-	17.751	1.31	1.81	3.12	4.94	21.23	16.29	9.79	13.55	23.35	13.68	29.97	16.29
	54	-	21.631	1.45	1.92	3.37	5.28	21.23	15.95	10.86	14.35	25.22	14.02	29.97	15.95
	56	-	17.654	1.29	1.67	2.96	4.71	21.23	16.52	9.62	12.53	22.15	13.45	29.97	16.52
5270	53	19.496	17.684	0.64	0.94	1.59	2.01	21.15	19.14	4.81	7.06	11.87	10.75	29.97	19.22
	54	23.322	20.534	0.71	1.01	1.72	2.36	21.23	18.87	5.35	7.53	12.88	11.10	29.97	18.87
	56	19.341	17.688	0.64	0.89	1.53	1.84	21.12	19.28	4.80	6.62	11.42	10.58	29.97	19.39
5310	53	19.495	17.743	0.68	0.82	1.50	1.76	21.15	19.39	5.07	6.15	11.22	10.50	29.97	19.47
	54	24.292	20.671	0.74	0.89	1.62	2.11	21.23	19.12	5.53	6.62	12.16	10.85	29.97	19.12
	56	19.409	17.677	0.68	0.78	1.46	1.63	21.14	19.51	5.06	5.83	10.89	10.37	29.97	19.60

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	53	0.00	-9.88	0.90	10.02	8.74	1.04	9.78	-8.30	1.00	9.86	8.74	2.56	11.30
	54	0.00	-9.34	0.90	10.02	8.74	1.58	10.32	-8.07	1.00	9.86	8.74	2.79	11.53
	56	0.00	-9.80	0.90	10.02	8.74	1.12	9.86	-8.56	1.00	9.86	8.74	2.30	11.04
5230	53	0.00	-9.75	0.90	10.02	8.74	1.17	9.91	-8.28	1.00	9.86	8.74	2.58	11.32
	54	0.00	-9.30	0.90	10.02	8.74	1.62	10.36	-8.03	1.00	9.86	8.74	2.83	11.57
	56	0.00	-9.83	0.90	10.02	8.74	1.09	9.83	-8.62	1.00	9.86	8.74	2.24	10.98
5270	53	0.00	-12.83	0.90	10.01	8.74	-1.92	6.82	-11.12	1.00	9.87	8.74	-0.25	8.49
	54	0.00	-12.37	0.90	10.01	8.74	-1.46	7.28	-10.84	1.00	9.87	8.74	0.03	8.77
	56	0.00	-12.84	0.90	10.01	8.74	-1.93	6.81	-11.40	1.00	9.87	8.74	-0.53	8.21
5310	53	0.00	-12.60	0.90	10.01	8.74	-1.69	7.05	-11.72	1.00	9.87	8.74	-0.85	7.89
	54	0.00	-12.22	0.90	10.01	8.74	-1.31	7.43	-11.40	1.00	9.87	8.74	-0.53	8.21
	56	0.00	-12.61	0.90	10.01	8.74	-1.70	7.04	-11.95	1.00	9.87	8.74	-1.08	7.66

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (106-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5510	53	19.411	17.767	3.17	2.39	5.56	7.45	21.14	13.69	23.71	17.91	41.62	16.19	29.97	13.78
	54	26.386	20.743	3.52	2.74	6.25	7.96	21.23	13.27	26.30	20.46	46.77	16.70	29.97	13.27
	56	19.331	17.672	3.18	2.42	5.59	7.48	21.12	13.64	23.77	18.07	41.84	16.22	29.97	13.75
5550	53	19.468	17.815	3.02	2.29	5.31	7.25	21.15	13.90	22.59	17.14	39.73	15.99	29.97	13.98
	54	23.945	20.672	3.22	2.53	5.75	7.60	21.23	13.63	24.10	18.92	43.02	16.34	29.97	13.63
	56	19.369	17.673	2.88	2.35	5.23	7.18	21.13	13.95	21.53	17.58	39.11	15.92	29.97	14.05
5670	53	19.374	17.724	2.58	2.47	5.05	7.03	21.13	14.10	19.32	18.45	37.77	15.77	29.97	14.20
	54	24.698	20.467	2.86	2.79	5.64	7.52	21.23	13.71	21.38	20.84	42.22	16.26	29.97	13.71
	56	19.352	17.655	2.48	2.47	4.95	6.95	21.12	14.17	18.54	18.49	37.03	15.69	29.97	14.28
5710	53	19.364	17.737	2.59	2.50	5.09	7.07	21.13	14.06	19.36	18.71	38.07	15.81	29.97	14.16
	54	25.113	20.781	2.81	2.79	5.59	7.48	21.23	13.75	20.99	20.84	41.83	16.22	29.97	13.75
	56	19.278	17.738	2.49	2.52	5.01	7.00	21.11	14.11	18.62	18.88	37.50	15.74	29.97	14.23
5755	53	-	17.759	1.03	0.83	1.86	2.68	27.26	24.58	7.67	6.21	13.88	11.42	36.00	24.58
	54	-	21.340	1.12	0.93	2.05	3.11	27.26	24.15	8.38	6.95	15.33	11.85	36.00	24.15
	56	-	17.674	0.99	0.81	1.80	2.55	27.26	24.71	7.43	6.03	13.46	11.29	36.00	24.71
5795	53	-	17.749	1.04	0.82	1.86	2.69	27.26	24.57	7.74	6.17	13.91	11.43	36.00	24.57
	54	-	20.633	0.88	0.89	1.78	2.50	27.26	24.76	6.61	6.68	13.29	11.24	36.00	24.76
	56	-	17.729	0.99	0.81	1.79	2.53	27.26	24.73	7.38	6.03	13.40	11.27	36.00	24.73

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5510	53	0.00	-5.90	0.90	10.01	8.74	5.01	13.75	-7.08	1.00	9.87	8.74	3.79	12.53
	54	0.00	-5.45	0.90	10.01	8.74	5.46	14.20	-6.50	1.00	9.87	8.74	4.37	13.11
	56	0.00	-5.89	0.90	10.01	8.74	5.02	13.76	-7.04	1.00	9.87	8.74	3.83	12.57
5550	53	0.00	-6.12	0.90	10.02	8.74	4.80	13.54	-7.27	1.00	9.87	8.74	3.60	12.34
	54	0.00	-5.84	0.90	10.02	8.74	5.08	13.82	-6.84	1.00	9.87	8.74	4.03	12.77
	56	0.00	-6.33	0.90	10.02	8.74	4.59	13.33	-7.16	1.00	9.87	8.74	3.71	12.45
5670	53	0.00	-6.82	0.90	10.04	8.74	4.12	12.86	-6.95	1.00	9.87	8.74	3.92	12.66
	54	0.00	-6.38	0.90	10.04	8.74	4.56	13.30	-6.42	1.00	9.87	8.74	4.45	13.19
	56	0.00	-7.00	0.90	10.04	8.74	3.94	12.68	-6.94	1.00	9.87	8.74	3.93	12.67
5710	53	0.00	-6.81	0.90	10.04	8.74	4.13	12.87	-6.89	1.00	9.87	8.74	3.98	12.72
	54	0.00	-6.46	0.90	10.04	8.74	4.48	13.22	-6.42	1.00	9.87	8.74	4.45	13.19
	56	0.00	-6.98	0.90	10.04	8.74	3.96	12.70	-6.85	1.00	9.87	8.74	4.02	12.76
5755	53	0.00	-10.84	0.90	10.05	8.74	0.11	8.85	-11.69	1.00	9.88	8.74	-0.81	7.93
	54	0.00	-10.46	0.90	10.05	8.74	0.49	9.23	-11.20	1.00	9.88	8.74	-0.32	8.42
	56	0.00	-10.98	0.90	10.05	8.74	-0.03	8.71	-11.82	1.00	9.88	8.74	-0.94	7.80
5795	53	0.00	-10.81	0.90	10.06	8.74	0.15	8.89	-11.72	1.00	9.88	8.74	-0.84	7.90
	54	0.00	-11.50	0.90	10.06	8.74	-0.54	8.20	-11.37	1.00	9.88	8.74	-0.49	8.25
	56	0.00	-11.02	0.90	10.06	8.74	-0.06	8.68	-11.82	1.00	9.88	8.74	-0.94	7.80

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (242-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	61	-	23.431	3.07	4.29	7.35	8.67	21.23	12.56	22.96	32.06	55.02	17.41	29.97	12.56
	62	-	23.018	2.99	4.26	7.25	8.60	21.23	12.63	22.39	31.84	54.23	17.34	29.97	12.63
5230	61	-	23.672	3.08	4.32	7.39	8.69	21.23	12.54	23.01	32.28	55.30	17.43	29.97	12.54
	62	-	23.711	3.11	4.18	7.29	8.63	21.23	12.60	23.28	31.26	54.54	17.37	29.97	12.60
5270	61	39.304	24.005	1.54	2.30	3.84	5.84	21.23	15.39	11.53	17.18	28.71	14.58	29.97	15.39
	62	39.294	23.502	1.55	2.31	3.86	5.86	21.23	15.37	11.61	17.26	28.87	14.60	29.97	15.37
5310	61	39.431	27.712	1.58	2.00	3.58	5.54	21.23	15.69	11.86	14.93	26.79	14.28	29.97	15.69
	62	39.414	22.786	1.55	1.92	3.47	5.41	21.23	15.82	11.59	14.39	25.98	14.15	29.97	15.82
5510	61	39.441	25.902	6.15	4.70	10.85	10.35	21.23	10.88	46.03	35.16	81.18	19.09	29.97	10.88
	62	39.272	23.891	6.30	4.65	10.94	10.39	21.23	10.84	47.10	34.75	81.85	19.13	29.97	10.84
5550	61	39.419	27.962	5.81	4.40	10.20	10.09	21.23	11.14	43.45	32.89	76.34	18.83	29.97	11.14
	62	39.374	23.077	5.70	4.48	10.18	10.08	21.23	11.15	42.66	33.50	76.15	18.82	29.97	11.15
5670	61	39.225	26.671	5.48	5.77	11.25	10.51	21.23	10.72	41.02	43.15	84.17	19.25	29.97	10.72
	62	39.209	27.780	5.47	5.81	11.28	10.52	21.23	10.71	40.93	43.45	84.38	19.26	29.97	10.71
5710	61	39.329	25.595	5.53	5.79	11.33	10.54	21.23	10.69	41.40	43.35	84.75	19.28	29.97	10.69
	62	39.068	23.296	5.47	5.69	11.16	10.48	21.23	10.75	40.93	42.56	83.49	19.22	29.97	10.75
5755	61	-	25.922	2.12	1.79	3.92	5.93	27.26	21.33	15.89	13.43	29.31	14.67	36.00	21.33
	62	-	25.515	2.10	1.75	3.84	5.85	27.26	21.41	15.70	13.06	28.77	14.59	36.00	21.41
5795	61	-	25.469	2.09	1.74	3.83	5.83	27.26	21.43	15.63	13.03	28.66	14.57	36.00	21.43
	62	-	22.612	2.10	1.69	3.79	5.79	27.26	21.47	15.70	12.68	28.38	14.53	36.00	21.47

Tested Frequency	RU Index	Duty Factor	**Antenna 1** Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	**Antenna 3** Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	61	0.00	-6.05	0.90	10.02	8.74	4.87	13.61	-4.54	1.00	9.86	8.74	6.32	15.06
	62	0.00	-6.16	0.90	10.02	8.74	4.76	13.50	-4.57	1.00	9.86	8.74	6.29	15.03
5230	61	0.00	-6.04	0.90	10.02	8.74	4.88	13.62	-4.51	1.00	9.86	8.74	6.35	15.09
	62	0.00	-5.99	0.90	10.02	8.74	4.93	13.67	-4.65	1.00	9.86	8.74	6.21	14.95
5270	61	0.00	-9.03	0.90	10.01	8.74	1.88	10.62	-7.26	1.00	9.87	8.74	3.61	12.35
	62	0.00	-9.00	0.90	10.01	8.74	1.91	10.65	-7.24	1.00	9.87	8.74	3.63	12.37
5310	61	0.00	-8.91	0.90	10.01	8.74	2.00	10.74	-7.87	1.00	9.87	8.74	3.00	11.74
	62	0.00	-9.01	0.90	10.01	8.74	1.90	10.64	-8.03	1.00	9.87	8.74	2.84	11.58
5510	61	0.00	-3.02	0.90	10.01	8.74	7.89	16.63	-4.15	1.00	9.87	8.74	6.72	15.46
	62	0.00	-2.92	0.90	10.01	8.74	7.99	16.73	-4.20	1.00	9.87	8.74	6.67	15.41
5550	61	0.00	-3.28	0.90	10.02	8.74	7.64	16.38	-4.44	1.00	9.87	8.74	6.43	15.17
	62	0.00	-3.36	0.90	10.02	8.74	7.56	16.30	-4.36	1.00	9.87	8.74	6.51	15.25
5670	61	0.00	-3.55	0.90	10.04	8.74	7.39	16.13	-3.26	1.00	9.87	8.74	7.61	16.35
	62	0.00	-3.56	0.90	10.04	8.74	7.38	16.12	-3.23	1.00	9.87	8.74	7.64	16.38
5710	61	0.00	-3.51	0.90	10.04	8.74	7.43	16.17	-3.24	1.00	9.87	8.74	7.63	16.37
	62	0.00	-3.56	0.90	10.04	8.74	7.38	16.12	-3.32	1.00	9.87	8.74	7.55	16.29
5755	61	0.00	-7.68	0.90	10.05	8.74	3.27	12.01	-8.34	1.00	9.88	8.74	2.54	11.28
	62	0.00	-7.73	0.90	10.05	8.74	3.22	11.96	-8.46	1.00	9.88	8.74	2.42	11.16
5795	61	0.00	-7.76	0.90	10.06	8.74	3.20	11.94	-8.47	1.00	9.88	8.74	2.41	11.15
	62	0.00	-7.74	0.90	10.06	8.74	3.22	11.96	-8.59	1.00	9.88	8.74	2.29	11.03

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 16, 2022
Temperature / Humidity	24 deg. C / 42 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-40 OFDMA (484-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power Antenna 1	Antenna 3	Sum	Result	Limit	Margin	e.i.r.p. Antenna 1	Antenna 3	Sum	Result	Limit	Margin
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5270	39.546	37.407	2.86	4.55	7.41	8.70	21.23	12.53	21.43	34.04	55.47	17.44	29.97	12.53
5310	39.509	37.379	2.96	3.87	6.84	8.35	21.23	12.88	22.18	28.97	51.16	17.09	29.97	12.88
5510	39.400	37.501	6.50	4.88	11.38	10.56	21.23	10.67	48.64	36.48	85.12	19.30	29.97	10.67
5550	39.307	37.384	5.87	4.51	10.38	10.16	21.23	11.07	43.95	33.73	77.68	18.90	29.97	11.07
5670	39.541	37.377	5.65	5.90	11.55	10.63	21.23	10.60	42.27	44.16	86.42	19.37	29.97	10.60
5710	39.580	37.474	5.61	5.62	11.23	10.51	21.23	10.72	41.98	42.07	84.05	19.25	29.97	10.72
5755	-	37.435	2.13	1.81	3.94	5.96	27.26	21.30	15.96	13.52	29.48	14.70	36.00	21.30
5795	-	37.416	2.16	1.77	3.93	5.95	27.26	21.31	16.18	13.24	29.42	14.69	36.00	21.31

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5270	0.00	-6.34	0.90	10.01	8.74	4.57	13.31	-4.29	1.00	9.87	8.74	6.58	15.32
5310	0.00	-6.19	0.90	10.01	8.74	4.72	13.46	-4.99	1.00	9.87	8.74	5.88	14.62
5510	0.00	-2.78	0.90	10.01	8.74	8.13	16.87	-3.99	1.00	9.87	8.74	6.88	15.62
5550	0.00	-3.23	0.90	10.02	8.74	7.69	16.43	-4.33	1.00	9.87	8.74	6.54	15.28
5670	0.00	-3.42	0.90	10.04	8.74	7.52	16.26	-3.16	1.00	9.87	8.74	7.71	16.45
5710	0.00	-3.45	0.90	10.04	8.74	7.49	16.23	-3.37	1.00	9.87	8.74	7.50	16.24
5755	0.00	-7.66	0.90	10.05	8.74	3.29	12.03	-8.31	1.00	9.88	8.74	2.57	11.31
5795	0.00	-7.61	0.90	10.06	8.74	3.35	12.09	-8.40	1.00	9.88	8.74	2.48	11.22

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ac-80

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5290	79.012	75.038	3.72	5.05	8.76	9.43	21.23	11.80	27.80	37.76	65.55	18.17	29.97	11.80
5530	78.751	75.066	6.35	4.28	10.63	10.26	21.23	10.97	47.53	31.99	79.52	19.00	29.97	10.97
5610	79.069	75.057	6.14	4.03	10.16	10.07	21.23	11.16	45.92	30.13	76.05	18.81	29.97	11.16
5690	78.997	75.042	5.20	5.15	10.35	10.15	21.23	11.08	38.90	38.55	77.45	18.89	29.97	11.08
5775	-	75.056	2.04	1.58	3.63	5.60	27.26	21.66	15.28	11.86	27.13	14.34	36.00	21.66

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5290	0.00	-5.21	0.90	10.01	8.74	5.70	14.44	-3.84	1.00	9.87	8.74	7.03	15.77
5530	0.00	-2.89	0.90	10.02	8.74	8.03	16.77	-4.56	1.00	9.87	8.74	6.31	15.05
5610	0.00	-3.05	0.90	10.03	8.74	7.88	16.62	-4.82	1.00	9.87	8.74	6.05	14.79
5690	0.00	-3.78	0.90	10.04	8.74	7.16	15.90	-3.75	1.00	9.87	8.74	7.12	15.86
5775	0.00	-7.85	0.90	10.05	8.74	3.10	11.84	-8.88	1.00	9.88	8.74	2.00	10.74

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-80 (OFDM)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			1	3	Sum				1	3	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5290	80.163	76.794	3.92	5.31	9.23	9.65	21.23	11.58	29.31	39.72	69.03	18.39	29.97	11.58
5530	80.184	76.799	6.46	4.47	10.92	10.38	21.23	10.85	48.31	33.42	81.73	19.12	29.97	10.85
5610	80.177	76.825	6.50	4.37	10.87	10.36	21.23	10.87	48.64	32.66	81.30	19.10	29.97	10.87
5690	80.183	76.767	5.30	5.51	10.80	10.34	21.23	10.89	39.63	41.21	80.84	19.08	29.97	10.89
5775	-	76.850	2.13	1.67	3.80	5.79	27.26	21.47	15.92	12.47	28.40	14.53	36.00	21.47

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5290	0.00	-4.98	0.90	10.01	8.74	5.93	14.67	-3.62	1.00	9.87	8.74	7.25	15.99
5530	0.00	-2.82	0.90	10.02	8.74	8.10	16.84	-4.37	1.00	9.87	8.74	6.50	15.24
5610	0.00	-2.80	0.90	10.03	8.74	8.13	16.87	-4.47	1.00	9.87	8.74	6.40	15.14
5690	0.00	-3.70	0.90	10.04	8.74	7.24	15.98	-3.46	1.00	9.87	8.74	7.41	16.15
5775	0.00	-7.67	0.90	10.05	8.74	3.28	12.02	-8.66	1.00	9.88	8.74	2.22	10.96

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-80 OFDMA (26-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	0	-	19.570	0.37	0.44	0.81	-0.93	21.23	22.16	2.75	3.28	6.04	7.81	29.97	22.16
	18	-	37.086	0.39	0.47	0.86	-0.64	21.23	21.87	2.95	3.51	6.46	8.10	29.97	21.87
	36	-	19.470	0.35	0.39	0.74	-1.30	21.23	22.53	2.65	2.89	5.55	7.44	29.97	22.53
5290	0	19.739	19.477	0.16	0.23	0.39	-4.05	21.21	25.26	1.22	1.72	2.94	4.69	29.97	25.28
	18	38.748	37.023	0.18	0.24	0.42	-3.73	21.23	24.96	1.38	1.78	3.17	5.01	29.97	24.96
	36	19.866	19.501	0.17	0.20	0.37	-4.34	21.23	25.57	1.25	1.51	2.75	4.40	29.97	25.57
5530	0	19.805	19.484	0.75	0.51	1.26	0.99	21.22	20.23	5.61	3.78	9.39	9.73	29.97	20.24
	18	38.828	37.122	0.83	0.56	1.40	1.45	21.23	19.78	6.22	4.22	10.44	10.19	29.97	19.78
	36	19.760	19.392	0.74	0.50	1.24	0.95	21.21	20.26	5.55	3.77	9.31	9.69	29.97	20.28
5610	0	19.772	19.380	0.73	0.42	1.15	0.61	21.22	20.61	5.48	3.12	8.60	9.35	29.97	20.62
	18	38.651	37.057	0.79	0.47	1.26	1.01	21.23	20.22	5.94	3.50	9.44	9.75	29.97	20.22
	36	19.747	19.355	0.70	0.42	1.12	0.47	21.21	20.74	5.21	3.13	8.35	9.21	29.97	20.76
5690	0	19.778	19.355	0.64	0.57	1.21	0.83	21.22	20.39	4.81	4.25	9.05	9.57	29.97	20.40
	18	38.565	37.141	0.70	0.63	1.33	1.22	21.23	20.01	5.24	4.68	9.91	9.96	29.97	20.01
	36	19.863	19.460	0.60	0.52	1.12	0.51	21.23	20.72	4.50	3.91	8.41	9.25	29.97	20.72
5775	0	-	19.440	0.27	0.19	0.46	-3.39	27.26	30.65	2.00	1.43	3.43	5.35	36.00	30.65
	18	-	37.036	0.29	0.21	0.50	-3.01	27.26	30.27	2.17	1.57	3.74	5.73	36.00	30.27
	36	-	19.347	0.25	0.18	0.44	-3.61	27.26	30.87	1.90	1.36	3.26	5.13	36.00	30.87

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	0	0.00	-15.26	0.90	10.02	8.74	-4.34	4.40	-14.44	1.00	9.86	8.74	-3.58	5.16
	18	0.00	-14.96	0.90	10.02	8.74	-4.04	4.70	-14.15	1.00	9.86	8.74	-3.29	5.45
	36	0.00	-15.42	0.90	10.02	8.74	-4.50	4.24	-14.99	1.00	9.86	8.74	-4.13	4.61
5290	0	0.00	-18.78	0.90	10.01	8.74	-7.87	0.87	-17.25	1.00	9.87	8.74	-6.38	2.36
	18	0.00	-18.24	0.90	10.01	8.74	-7.33	1.41	-17.10	1.00	9.87	8.74	-6.23	2.51
	36	0.00	-18.69	0.90	10.01	8.74	-7.78	0.96	-17.83	1.00	9.87	8.74	-6.96	1.78
5530	0	0.00	-12.17	0.90	10.02	8.74	-1.25	7.49	-13.83	1.00	9.87	8.74	-2.96	5.78
	18	0.00	-11.72	0.90	10.02	8.74	-0.80	7.94	-13.36	1.00	9.87	8.74	-2.49	6.25
	36	0.00	-12.22	0.90	10.02	8.74	-1.30	7.44	-13.85	1.00	9.87	8.74	-2.98	5.76
5610	0	0.00	-12.28	0.90	10.03	8.74	-1.35	7.39	-14.67	1.00	9.87	8.74	-3.80	4.94
	18	0.00	-11.93	0.90	10.03	8.74	-1.00	7.74	-14.17	1.00	9.87	8.74	-3.30	5.44
	36	0.00	-12.50	0.90	10.03	8.74	-1.57	7.17	-14.65	1.00	9.87	8.74	-3.78	4.96
5690	0	0.00	-12.86	0.90	10.04	8.74	-1.92	6.82	-13.33	1.00	9.87	8.74	-2.46	6.28
	18	0.00	-12.49	0.90	10.04	8.74	-1.55	7.19	-12.91	1.00	9.87	8.74	-2.04	6.70
	36	0.00	-13.15	0.90	10.04	8.74	-2.21	6.53	-13.69	1.00	9.87	8.74	-2.82	5.92
5775	0	0.00	-16.69	0.90	10.05	8.74	-5.74	3.00	-18.06	1.00	9.88	8.74	-7.18	1.56
	18	0.00	-16.32	0.90	10.05	8.74	-5.37	3.37	-17.67	1.00	9.88	8.74	-6.79	1.95
	36	0.00	-16.90	0.90	10.05	8.74	-5.95	2.79	-18.30	1.00	9.88	8.74	-7.42	1.32

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-80 OFDMA (52-tone RU)

Antenna 1+3 Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	37	-	20.151	0.67	0.87	1.54	1.87	21.23	19.36	5.02	6.49	11.51	10.61	29.97	19.36
	44	-	26.629	0.69	0.87	1.56	1.92	21.23	19.31	5.13	6.52	11.64	10.66	29.97	19.31
	52	-	19.286	0.63	0.74	1.37	1.36	21.23	19.87	4.70	5.53	10.23	10.10	29.97	19.87
5290	37	20.382	20.129	0.31	0.43	0.74	-1.32	21.23	22.55	2.32	3.21	5.52	7.42	29.97	22.55
	44	24.112	26.096	0.33	0.34	0.67	-1.73	21.23	22.96	2.45	2.56	5.02	7.01	29.97	22.96
	52	20.243	19.360	0.31	0.37	0.68	-1.67	21.23	22.90	2.34	2.75	5.09	7.07	29.97	22.90
5530	37	21.181	19.983	1.56	1.06	2.62	4.18	21.23	17.05	11.67	7.91	19.57	12.92	29.97	17.05
	44	25.667	27.176	1.63	1.12	2.75	4.39	21.23	16.84	12.19	8.38	20.57	13.13	29.97	16.84
	52	20.168	19.253	1.51	1.05	2.56	4.08	21.23	17.15	11.30	7.85	19.15	12.82	29.97	17.15
5610	37	20.914	19.980	1.45	0.86	2.31	3.64	21.23	17.59	10.86	6.43	17.29	12.38	29.97	17.59
	44	25.354	27.431	1.48	0.91	2.38	3.77	21.23	17.46	11.04	6.78	17.82	12.51	29.97	17.46
	52	20.139	19.190	1.38	0.83	2.21	3.45	21.23	17.78	10.33	6.22	16.55	12.19	29.97	17.78
5690	37	20.826	19.966	1.29	1.12	2.41	3.82	21.23	17.41	9.62	8.41	18.03	12.56	29.97	17.41
	44	25.621	26.403	1.34	1.19	2.53	4.03	21.23	17.20	10.02	8.91	18.94	12.77	29.97	17.20
	52	20.154	19.222	1.21	1.06	2.27	3.55	21.23	17.68	9.04	7.93	16.96	12.29	29.97	17.68
5775	37	-	20.032	0.56	0.41	0.96	-0.17	27.26	27.43	4.17	3.03	7.20	8.57	36.00	27.43
	44	-	27.286	0.58	0.43	1.01	0.03	27.26	27.23	4.32	3.22	7.54	8.77	36.00	27.23
	52	-	19.236	0.54	0.39	0.93	-0.34	27.26	27.60	4.01	2.92	6.93	8.40	36.00	27.60

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	37	0.00	-12.65	0.90	10.02	8.74	-1.73	7.01	-11.48	1.00	9.86	8.74	-0.62	8.12
	44	0.00	-12.56	0.90	10.02	8.74	-1.64	7.10	-11.46	1.00	9.86	8.74	-0.60	8.14
	52	0.00	-12.94	0.90	10.02	8.74	-2.02	6.72	-12.17	1.00	9.86	8.74	-1.31	7.43
5290	37	0.00	-16.00	0.90	10.01	8.74	-5.09	3.65	-14.55	1.00	9.87	8.74	-3.68	5.06
	44	0.00	-15.75	0.90	10.01	8.74	-4.84	3.90	-15.52	1.00	9.87	8.74	-4.65	4.09
	52	0.00	-15.95	0.90	10.01	8.74	-5.04	3.70	-15.22	1.00	9.87	8.74	-4.35	4.39
5530	37	0.00	-8.99	0.90	10.02	8.74	1.93	10.67	-10.63	1.00	9.87	8.74	0.24	8.98
	44	0.00	-8.80	0.90	10.02	8.74	2.12	10.86	-10.38	1.00	9.87	8.74	0.49	9.23
	52	0.00	-9.13	0.90	10.02	8.74	1.79	10.53	-10.66	1.00	9.87	8.74	0.21	8.95
5610	37	0.00	-9.31	0.90	10.03	8.74	1.62	10.36	-11.53	1.00	9.87	8.74	-0.66	8.08
	44	0.00	-9.24	0.90	10.03	8.74	1.69	10.43	-11.30	1.00	9.87	8.74	-0.43	8.31
	52	0.00	-9.53	0.90	10.03	8.74	1.40	10.14	-11.67	1.00	9.87	8.74	-0.80	7.94
5690	37	0.00	-9.85	0.90	10.04	8.74	1.09	9.83	-10.36	1.00	9.87	8.74	0.51	9.25
	44	0.00	-9.67	0.90	10.04	8.74	1.27	10.01	-10.11	1.00	9.87	8.74	0.76	9.50
	52	0.00	-10.12	0.90	10.04	8.74	0.82	9.56	-10.62	1.00	9.87	8.74	0.25	8.99
5775	37	0.00	-13.49	0.90	10.05	8.74	-2.54	6.20	-14.80	1.00	9.88	8.74	-3.92	4.82
	44	0.00	-13.34	0.90	10.05	8.74	-2.39	6.35	-14.54	1.00	9.88	8.74	-3.66	5.08
	52	0.00	-13.66	0.90	10.05	8.74	-2.71	6.03	-14.97	1.00	9.88	8.74	-4.09	4.65

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-80 OFDMA (106-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	53	-	19.978	1.37	1.78	3.15	4.98	21.23	16.25	10.26	13.30	23.56	13.72	29.97	16.25
	56	-	23.688	1.39	1.79	3.18	5.03	21.23	16.20	10.38	13.43	23.80	13.77	29.97	16.20
	60	-	19.244	1.29	1.55	2.83	4.52	21.23	16.71	9.64	11.56	21.20	13.26	29.97	16.71
5290	53	21.183	20.008	0.66	0.92	1.58	2.00	21.23	19.23	4.93	6.92	11.85	10.74	29.97	19.23
	56	26.366	24.556	0.70	0.93	1.63	2.11	21.23	19.12	5.22	6.95	12.17	10.85	29.97	19.12
	60	20.701	19.167	0.65	0.81	1.46	1.65	21.23	19.58	4.90	6.05	10.95	10.39	29.97	19.58
5530	53	22.233	19.905	3.24	2.30	5.54	7.43	21.23	13.80	24.27	17.18	41.45	16.17	29.97	13.80
	56	26.278	24.032	3.41	2.43	5.84	7.66	21.23	13.57	25.53	18.16	43.68	16.40	29.97	13.57
	60	21.318	19.170	3.22	2.32	5.54	7.44	21.23	13.79	24.10	17.38	41.48	16.18	29.97	13.79
5610	53	21.712	19.635	2.99	1.76	4.74	6.76	21.23	14.47	22.34	13.15	35.49	15.50	29.97	14.47
	56	25.661	24.107	3.01	1.90	4.90	6.90	21.23	14.33	22.49	14.19	36.68	15.64	29.97	14.33
	60	20.718	19.082	2.88	1.78	4.66	6.68	21.23	14.55	21.53	13.34	34.86	15.42	29.97	14.55
5690	53	22.203	19.981	2.63	2.41	5.04	7.02	21.23	14.21	19.68	18.03	37.71	15.76	29.97	14.21
	56	27.417	23.734	2.72	2.57	5.29	7.24	21.23	13.99	20.37	19.23	39.60	15.98	29.97	13.99
	60	20.482	19.124	2.49	2.32	4.81	6.82	21.23	14.41	18.66	17.34	36.00	15.56	29.97	14.41
5775	53	-	19.572	1.06	0.79	1.85	2.67	27.26	24.59	7.91	5.93	13.84	11.41	36.00	24.59
	56	-	24.291	1.08	0.82	1.90	2.79	27.26	24.47	8.09	6.12	14.21	11.53	36.00	24.47
	60	-	19.129	0.98	0.75	1.73	2.38	27.26	24.88	7.35	5.58	12.93	11.12	36.00	24.88

Tested Frequency	RU Index	Duty Factor	**Antenna 1**						**Antenna 3**					
			Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	53	0.00	-9.55	0.90	10.02	8.74	1.37	10.11	-8.36	1.00	9.86	8.74	2.50	11.24
	56	0.00	-9.50	0.90	10.02	8.74	1.42	10.16	-8.32	1.00	9.86	8.74	2.54	11.28
	60	0.00	-9.82	0.90	10.02	8.74	1.10	9.84	-8.97	1.00	9.86	8.74	1.89	10.63
5290	53	0.00	-12.72	0.90	10.01	8.74	-1.81	6.93	-11.21	1.00	9.87	8.74	-0.34	8.40
	56	0.00	-12.47	0.90	10.01	8.74	-1.56	7.18	-11.19	1.00	9.87	8.74	-0.32	8.42
	60	0.00	-12.75	0.90	10.01	8.74	-1.84	6.90	-11.79	1.00	9.87	8.74	-0.92	7.82
5530	53	0.00	-5.81	0.90	10.02	8.74	5.11	13.85	-7.26	1.00	9.87	8.74	3.61	12.35
	56	0.00	-5.59	0.90	10.02	8.74	5.33	14.07	-7.02	1.00	9.87	8.74	3.85	12.59
	60	0.00	-5.84	0.90	10.02	8.74	5.08	13.82	-7.21	1.00	9.87	8.74	3.66	12.40
5610	53	0.00	-6.18	0.90	10.03	8.74	4.75	13.49	-8.42	1.00	9.87	8.74	2.45	11.19
	56	0.00	-6.15	0.90	10.03	8.74	4.78	13.52	-8.09	1.00	9.87	8.74	2.78	11.52
	60	0.00	-6.34	0.90	10.03	8.74	4.59	13.33	-8.36	1.00	9.87	8.74	2.51	11.25
5690	53	0.00	-6.74	0.90	10.04	8.74	4.20	12.94	-7.05	1.00	9.87	8.74	3.82	12.56
	56	0.00	-6.59	0.90	10.04	8.74	4.35	13.09	-6.77	1.00	9.87	8.74	4.10	12.84
	60	0.00	-6.97	0.90	10.04	8.74	3.97	12.71	-7.22	1.00	9.87	8.74	3.65	12.39
5775	53	0.00	-10.71	0.90	10.05	8.74	0.24	8.98	-11.89	1.00	9.88	8.74	-1.01	7.73
	56	0.00	-10.61	0.90	10.05	8.74	0.34	9.08	-11.75	1.00	9.88	8.74	-0.87	7.87
	60	0.00	-11.03	0.90	10.05	8.74	-0.08	8.66	-12.15	1.00	9.88	8.74	-1.27	7.47

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-80 OFDMA (242-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	61	-	23.096	3.11	4.16	7.27	8.62	21.23	12.61	23.28	31.12	54.40	17.36	29.97	12.61
	62	-	40.994	3.30	4.27	7.56	8.79	21.23	12.44	24.66	31.92	56.58	17.53	29.97	12.44
	64	-	22.320	2.99	3.94	6.93	8.41	21.23	12.82	22.39	29.44	51.83	17.15	29.97	12.82
5290	61	28.165	22.396	1.53	2.24	3.77	5.76	21.23	15.47	11.43	16.75	28.18	14.50	29.97	15.47
	62	48.077	41.256	1.62	2.38	4.00	6.03	21.23	15.20	12.13	17.82	29.96	14.77	29.97	15.20
	64	26.645	22.362	1.54	2.04	3.58	5.54	21.23	15.69	11.51	15.28	26.78	14.28	29.97	15.69
5530	61	30.249	22.519	6.34	4.52	10.86	10.36	21.23	10.87	47.42	33.81	81.23	19.10	29.97	10.87
	62	51.193	41.904	6.61	4.71	11.32	10.54	21.23	10.69	49.43	35.24	84.67	19.28	29.97	10.69
	64	28.646	22.564	6.53	4.49	11.02	10.42	21.23	10.81	48.87	33.57	82.44	19.16	29.97	10.81
5610	61	28.146	22.399	6.79	4.32	11.11	10.46	21.23	10.77	50.82	32.28	83.10	19.20	29.97	10.77
	62	43.721	40.435	7.11	4.58	11.69	10.68	21.23	10.55	53.21	34.28	87.49	19.42	29.97	10.55
	64	28.675	22.242	6.56	4.32	10.88	10.36	21.23	10.87	49.09	32.28	81.38	19.10	29.97	10.87
5690	61	29.877	22.640	5.57	5.56	11.13	10.47	21.23	10.76	41.69	41.59	83.28	19.21	29.97	10.76
	62	45.068	41.282	5.79	5.77	11.56	10.63	21.23	10.60	43.35	43.15	86.50	19.37	29.97	10.60
	64	29.347	22.256	5.38	5.25	10.63	10.27	21.23	10.96	40.27	39.26	79.54	19.01	29.97	10.96
5775	61	-	22.363	2.16	1.66	3.82	5.82	27.26	21.44	16.18	12.42	28.60	14.56	36.00	21.44
	62	-	40.568	2.26	1.79	4.05	6.08	27.26	21.18	16.90	13.43	30.33	14.82	36.00	21.18
	64	-	22.526	2.02	1.57	3.59	5.55	27.26	21.71	15.10	11.78	26.88	14.29	36.00	21.71

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	61	0.00	-5.99	0.90	10.02	8.74	4.93	13.67	-4.67	1.00	9.86	8.74	6.19	14.93
	62	0.00	-5.74	0.90	10.02	8.74	5.18	13.92	-4.56	1.00	9.86	8.74	6.30	15.04
	64	0.00	-6.16	0.90	10.02	8.74	4.76	13.50	-4.91	1.00	9.86	8.74	5.95	14.69
5290	61	0.00	-9.07	0.90	10.01	8.74	1.84	10.58	-7.37	1.00	9.87	8.74	3.50	12.24
	62	0.00	-8.81	0.90	10.01	8.74	2.10	10.84	-7.10	1.00	9.87	8.74	3.77	12.51
	64	0.00	-9.04	0.90	10.01	8.74	1.87	10.61	-7.77	1.00	9.87	8.74	3.10	11.84
5530	61	0.00	-2.90	0.90	10.02	8.74	8.02	16.76	-4.32	1.00	9.87	8.74	6.55	15.29
	62	0.00	-2.72	0.90	10.02	8.74	8.20	16.94	-4.14	1.00	9.87	8.74	6.73	15.47
	64	0.00	-2.77	0.90	10.02	8.74	8.15	16.89	-4.35	1.00	9.87	8.74	6.52	15.26
5610	61	0.00	-2.61	0.90	10.03	8.74	8.32	17.06	-4.52	1.00	9.87	8.74	6.35	15.09
	62	0.00	-2.41	0.90	10.03	8.74	8.52	17.26	-4.26	1.00	9.87	8.74	6.61	15.35
	64	0.00	-2.76	0.90	10.03	8.74	8.17	16.91	-4.52	1.00	9.87	8.74	6.35	15.09
5690	61	0.00	-3.48	0.90	10.04	8.74	7.46	16.20	-3.42	1.00	9.87	8.74	7.45	16.19
	62	0.00	-3.31	0.90	10.04	8.74	7.63	16.37	-3.26	1.00	9.87	8.74	7.61	16.35
	64	0.00	-3.63	0.90	10.04	8.74	7.31	16.05	-3.67	1.00	9.87	8.74	7.20	15.94
5775	61	0.00	-7.60	0.90	10.05	8.74	3.35	12.09	-8.68	1.00	9.88	8.74	2.20	10.94
	62	0.00	-7.41	0.90	10.05	8.74	3.54	12.28	-8.34	1.00	9.88	8.74	2.54	11.28
	64	0.00	-7.90	0.90	10.05	8.74	3.05	11.79	-8.91	1.00	9.88	8.74	1.97	10.71

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-80 OFDMA (484-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	RU Index	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power						e.i.r.p.					
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				1	3	Sum				1	3	Sum			
[MHz]		[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5290	65	79.638	62.445	2.86	4.31	7.16	8.55	21.23	12.68	21.38	32.21	53.59	17.29	29.97	12.68
	66	79.852	60.521	2.84	4.05	6.88	8.38	21.23	12.85	21.23	30.27	51.50	17.12	29.97	12.85
5530	65	79.696	67.637	6.37	4.48	10.85	10.35	21.23	10.88	47.64	33.50	81.14	19.09	29.97	10.88
	66	79.653	61.590	6.30	4.34	10.63	10.27	21.23	10.96	47.10	32.43	79.53	19.01	29.97	10.96
5610	65	80.012	63.735	6.73	4.28	11.01	10.42	21.23	10.81	50.35	31.99	82.34	19.16	29.97	10.81
	66	79.840	60.567	6.59	4.21	10.80	10.33	21.23	10.90	49.32	31.48	80.79	19.07	29.97	10.90
5690	65	79.742	65.023	5.20	5.00	10.20	10.09	21.23	11.14	38.90	37.41	76.32	18.83	29.97	11.14
	66	79.943	67.731	4.98	4.93	9.91	9.96	21.23	11.27	37.24	36.90	74.14	18.70	29.97	11.27
5775	65	-	66.158	2.13	1.68	3.81	5.81	27.26	21.45	15.92	12.59	28.51	14.55	36.00	21.45
	66	-	66.213	2.07	1.62	3.69	5.67	27.26	21.59	15.49	12.13	27.62	14.41	36.00	21.59

			Antenna 1						**Antenna 3**					
Tested Frequency	RU Index	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5290	65	0.00	-6.35	0.90	10.01	8.74	4.56	13.30	-4.53	1.00	9.87	8.74	6.34	15.08
	66	0.00	-6.38	0.90	10.01	8.74	4.53	13.27	-4.80	1.00	9.87	8.74	6.07	14.81
5530	65	0.00	-2.88	0.90	10.02	8.74	8.04	16.78	-4.36	1.00	9.87	8.74	6.51	15.25
	66	0.00	-2.93	0.90	10.02	8.74	7.99	16.73	-4.50	1.00	9.87	8.74	6.37	15.11
5610	65	0.00	-2.65	0.90	10.03	8.74	8.28	17.02	-4.56	1.00	9.87	8.74	6.31	15.05
	66	0.00	-2.74	0.90	10.03	8.74	8.19	16.93	-4.63	1.00	9.87	8.74	6.24	14.98
5690	65	0.00	-3.78	0.90	10.04	8.74	7.16	15.90	-3.88	1.00	9.87	8.74	6.99	15.73
	66	0.00	-3.97	0.90	10.04	8.74	6.97	15.71	-3.94	1.00	9.87	8.74	6.93	15.67
5775	65	0.00	-7.67	0.90	10.05	8.74	3.28	12.02	-8.62	1.00	9.88	8.74	2.26	11.00
	66	0.00	-7.79	0.90	10.05	8.74	3.16	11.90	-8.78	1.00	9.88	8.74	2.10	10.84

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Maximum Conducted Output Power

Test place	Ise EMC Lab. No.11 Measurement Room
Date	December 15, 2022
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Takumi Nishida
Mode	Tx 11ax-80 OFDMA (996-tone RU)

Antenna 1+3

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted power Antenna 1	Antenna 3	Antenna Sum	Result	Limit	Margin	e.i.r.p. Antenna 1	Antenna 3	Antenna Sum	Result	Limit	Margin
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5290	79.745	76.548	3.85	5.26	9.11	9.60	21.23	11.63	28.84	39.36	68.20	18.34	29.97	11.63
5530	80.130	76.768	6.32	4.47	10.79	10.33	21.23	10.90	47.32	33.42	80.73	19.07	29.97	10.90
5610	80.084	76.802	6.73	4.24	10.97	10.40	21.23	10.83	50.35	31.70	82.05	19.14	29.97	10.83
5690	79.820	76.758	5.32	5.18	10.50	10.21	21.23	11.02	39.81	38.73	78.54	18.95	29.97	11.02
5775	-	76.971	2.06	1.62	3.67	5.65	27.26	21.61	15.38	12.11	27.49	14.39	36.00	21.61

		Antenna 1						**Antenna 3**					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5290	0.00	-5.05	0.90	10.01	8.74	5.86	14.60	-3.66	1.00	9.87	8.74	7.21	15.95
5530	0.00	-2.91	0.90	10.02	8.74	8.01	16.75	-4.37	1.00	9.87	8.74	6.50	15.24
5610	0.00	-2.65	0.90	10.03	8.74	8.28	17.02	-4.60	1.00	9.87	8.74	6.27	15.01
5690	0.00	-3.68	0.90	10.04	8.74	7.26	16.00	-3.73	1.00	9.87	8.74	7.14	15.88
5775	0.00	-7.82	0.90	10.05	8.74	3.13	11.87	-8.79	1.00	9.88	8.74	2.09	10.83

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

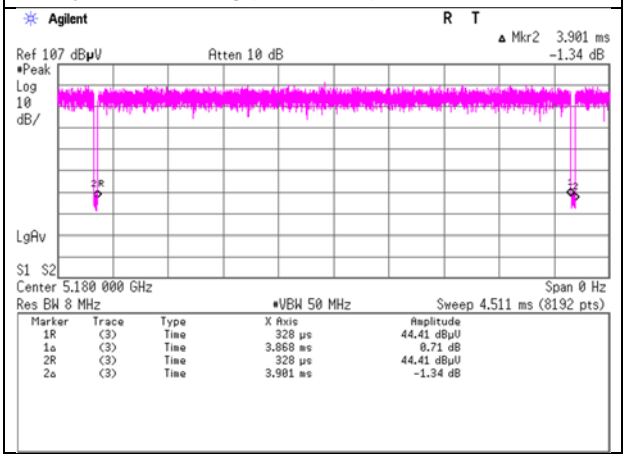
The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)
The test was performed with Gate function.

Burst rate confirmation

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
Mode	Tx

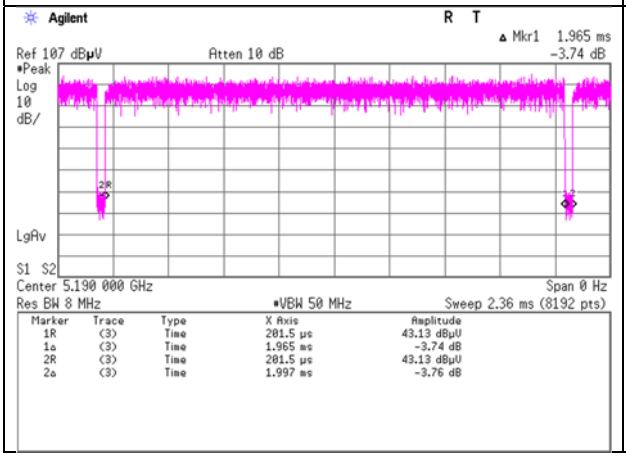
11ax-20(OFDM)
MCS 0

Tx on / (Tx on + Tx off) =	**0.992**
Tx on / (Tx on + Tx off) * 100 =	**99.2 %**
Duty factor = 10 * log (3.901 / 3.868) =	**0.04 dB**



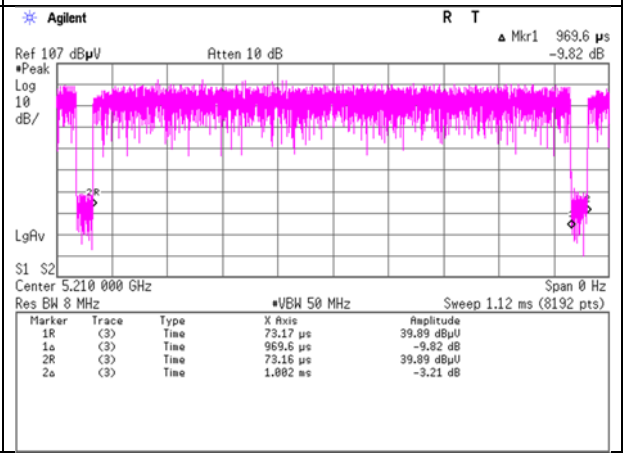
11ax-40(OFDM)
MCS 0

Tx on / (Tx on + Tx off) =	**0.984**
Tx on / (Tx on + Tx off) * 100 =	**98.4 %**
Duty factor = 10 * log (1.997 / 1.965) =	**0.07 dB**



11ax-80 (OFDM)
MCS 0

Tx on / (Tx on + Tx off) =	**0.968**
Tx on / (Tx on + Tx off) * 100 =	**96.8 %**
Duty factor = 10 * log (1.002 / 0.9696) =	**0.14 dB**

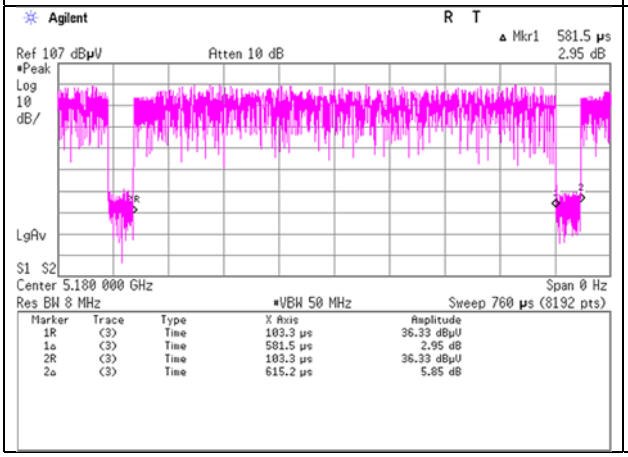


Burst rate confirmation

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
Mode	Tx

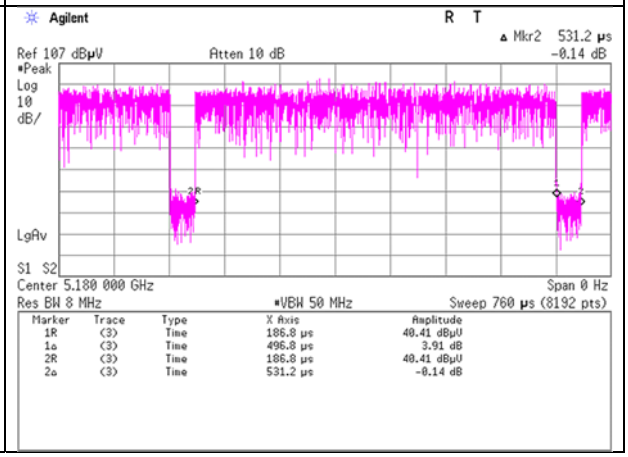
11ax-20 (26-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	0.945
Tx on / (Tx on + Tx off) * 100 =	94.5 %
Duty factor = 10 * log (615.2 / 581.5) =	0.24 dB



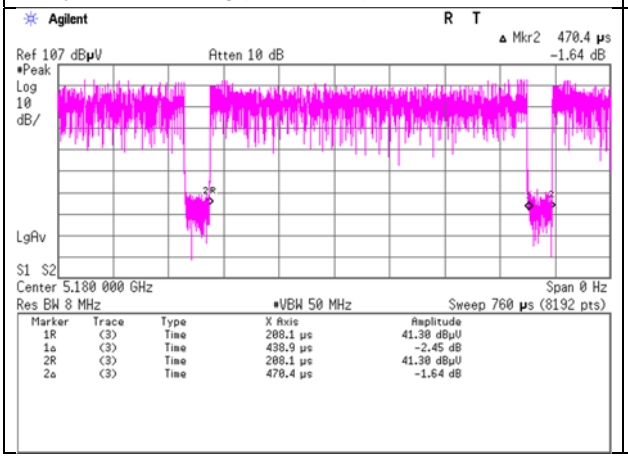
11ax-20 (52-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	0.935
Tx on / (Tx on + Tx off) * 100 =	93.5 %
Duty factor = 10 * log (531.2 / 496.8) =	0.29 dB



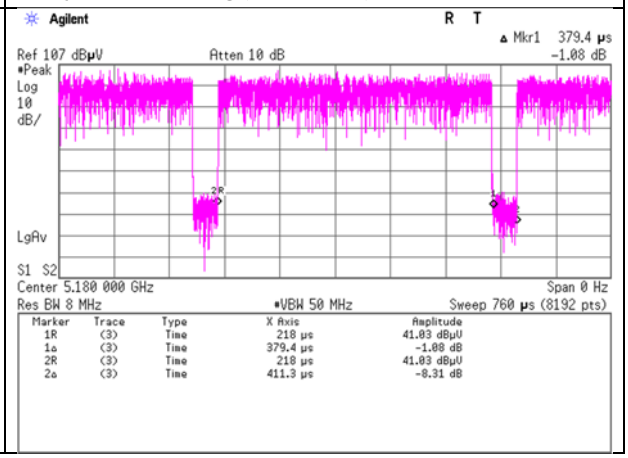
11ax-20 (106-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	0.933
Tx on / (Tx on + Tx off) * 100 =	93.3 %
Duty factor = 10 * log (470.4 / 438.9) =	0.30 dB



11ax-20 (242-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	0.922
Tx on / (Tx on + Tx off) * 100 =	92.2 %
Duty factor = 10 * log (411.3 / 379.4) =	0.35 dB

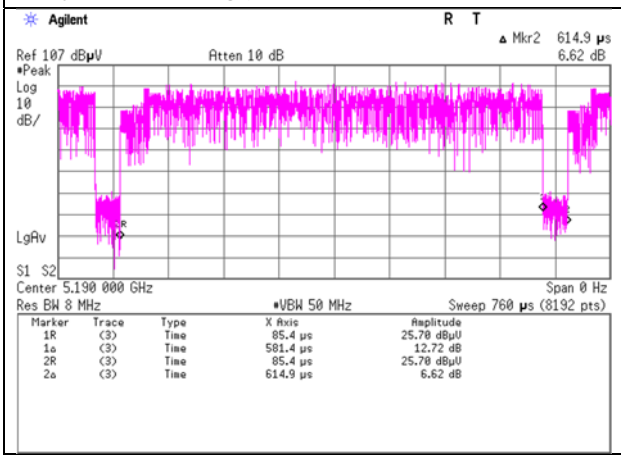


Burst rate confirmation

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
Mode	Tx

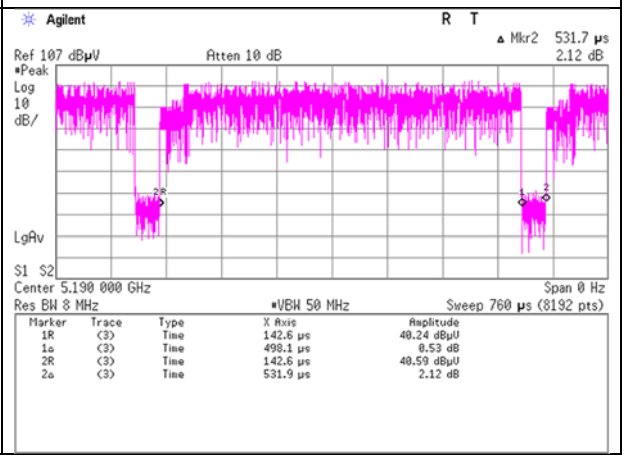
11ax-40 (26-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	**0.946**
Tx on / (Tx on + Tx off) * 100 =	**94.6 %**
Duty factor = 10 * log (614.9 / 581.4) =	**0.24 dB**



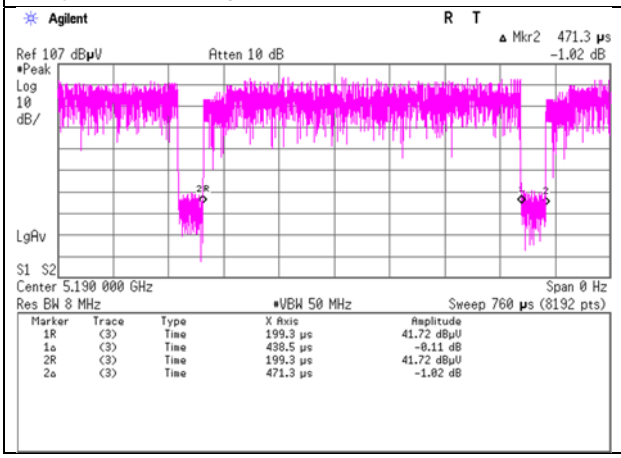
11ax-40 (52-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	**0.936**
Tx on / (Tx on + Tx off) * 100 =	**93.6 %**
Duty factor = 10 * log (531.9 / 498.1) =	**0.29 dB**



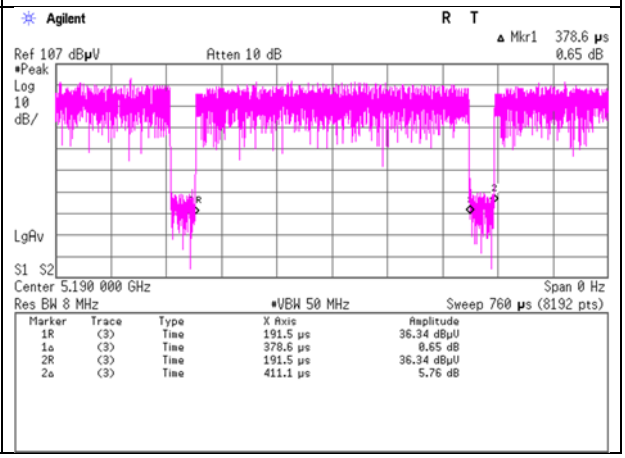
11ax-40 (106-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	**0.930**
Tx on / (Tx on + Tx off) * 100 =	**93.0 %**
Duty factor = 10 * log (471.3 / 438.5) =	**0.31 dB**



11ax-40 (242-tone RU) MCS 0

Tx on / (Tx on + Tx off) =	**0.921**
Tx on / (Tx on + Tx off) * 100 =	**92.1 %**
Duty factor = 10 * log (411.1 / 378.6) =	**0.36 dB**

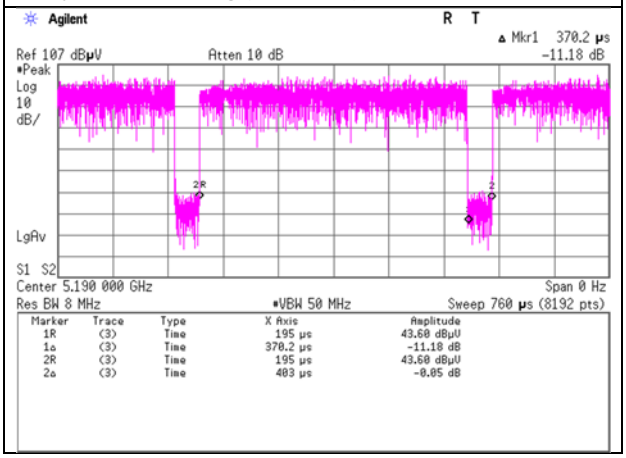


Burst rate confirmation

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
Mode	Tx

11ax-40 (484-tone RU)
MCS 0

Tx on / (Tx on + Tx off) =	**0.919**
Tx on / (Tx on + Tx off) * 100 =	**91.9 %**
Duty factor = 10 * log (403 / 370.2) =	**0.37 dB**

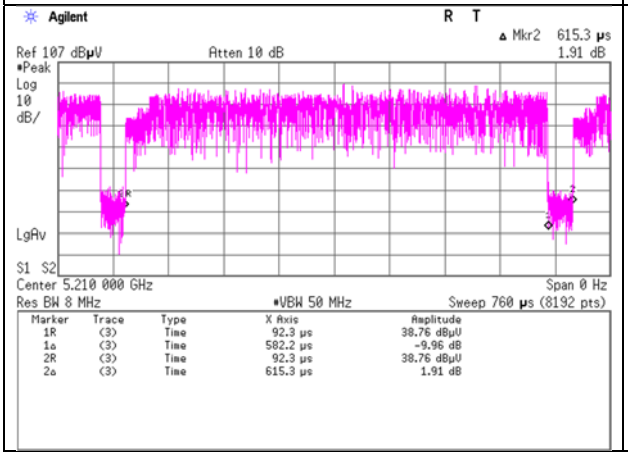


Burst rate confirmation

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 11, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Sayaka Hara
Mode	Tx

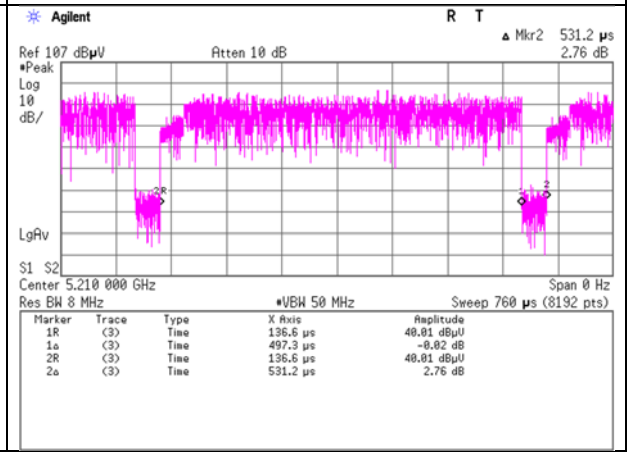
11ax-80 (26-tone RU) MCS 0

Tx on / (Tx on + Tx off) = **0.946**
Tx on / (Tx on + Tx off) * 100 = **94.6 %**
Duty factor = 10 * log (615.3 / 582.2) = **0.24 dB**



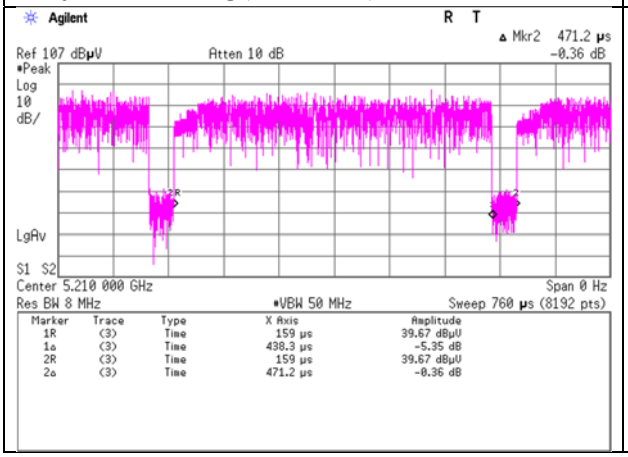
11ax-80 (52-tone RU) MCS 0

Tx on / (Tx on + Tx off) = **0.936**
Tx on / (Tx on + Tx off) * 100 = **93.6 %**
Duty factor = 10 * log (531.2 / 497.3) = **0.29 dB**



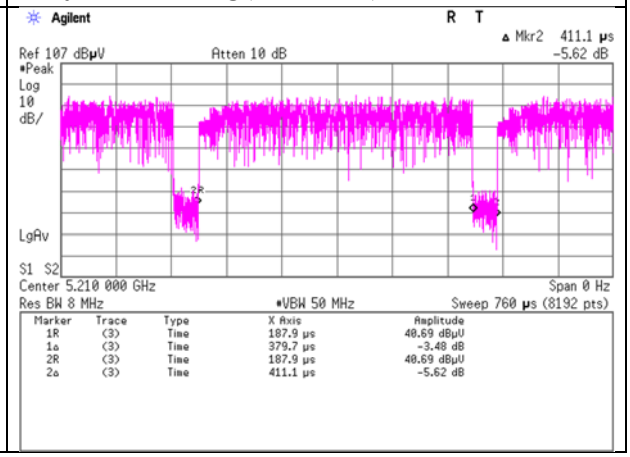
11ax-80 (106-tone RU) MCS 0

Tx on / (Tx on + Tx off) = **0.930**
Tx on / (Tx on + Tx off) * 100 = **93.0 %**
Duty factor = 10 * log (471.2 / 438.3) = **0.31 dB**



11ax-80 (242-tone RU) MCS 0

Tx on / (Tx on + Tx off) = **0.924**
Tx on / (Tx on + Tx off) * 100 = **92.4 %**
Duty factor = 10 * log (411.1 / 379.7) = **0.35 dB**

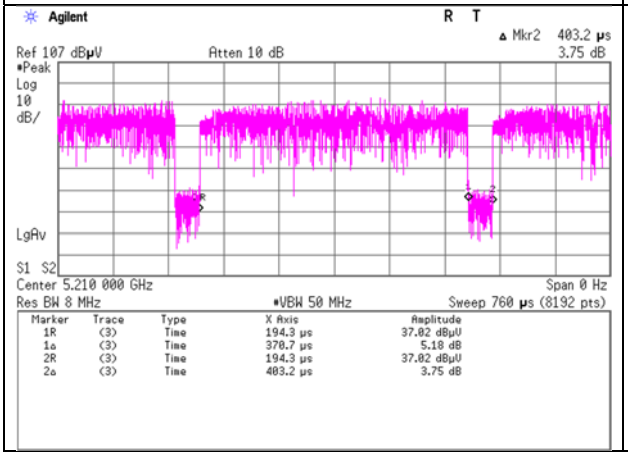


Burst rate confirmation

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 11, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Sayaka Hara
Mode	Tx

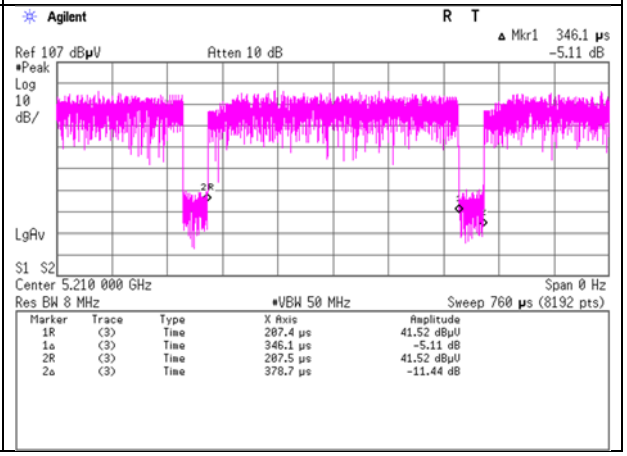
11ax-80 (484-tone RU) MCS 0

Tx on / (Tx on + Tx off) = **0.919**
Tx on / (Tx on + Tx off) * 100 = **91.9 %**
Duty factor = 10 * log (403.2 / 370.7) = **0.36 dB**



11ax-80 (996-tone RU) MCS 0

Tx on / (Tx on + Tx off) = **0.914**
Tx on / (Tx on + Tx off) * 100 = **91.4 %**
Duty factor = 10 * log (378.7 / 346.1) = **0.39 dB**



Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5180 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	49.1	37.8	31.9	6.4	31.9	-	55.5	44.1	73.9	53.9	18.4	9.8	
Hori.	10360.0	44.5	-	40.0	-1.7	33.8	-	49.1	-	68.2	-	19.1	-	
Hori.	15540.0	43.1	33.2	37.7	0.5	33.0	-	48.5	38.5	73.9	53.9	25.5	15.4	Floor noise
Vert.	5150.0	46.8	36.2	31.9	6.4	31.9	-	53.2	42.6	73.9	53.9	20.7	11.3	
Vert.	10360.0	44.4	-	40.0	-1.7	33.8	-	49.0	-	68.2	-	19.2	-	
Vert.	15540.0	43.2	33.2	37.7	0.5	33.0	-	48.5	38.5	73.9	53.9	25.4	15.4	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.

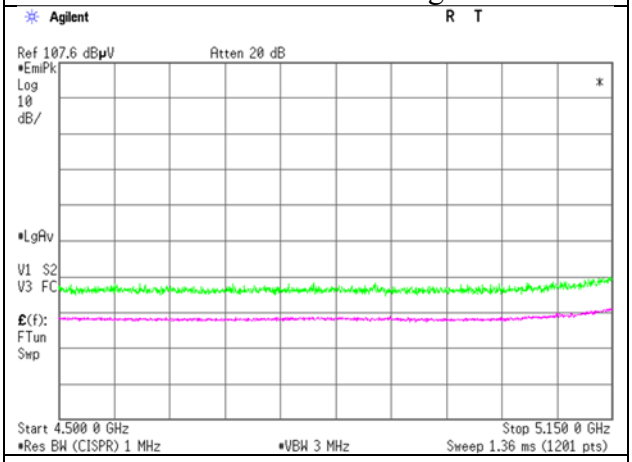
Distance factor:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (OFDM)

Horizontal

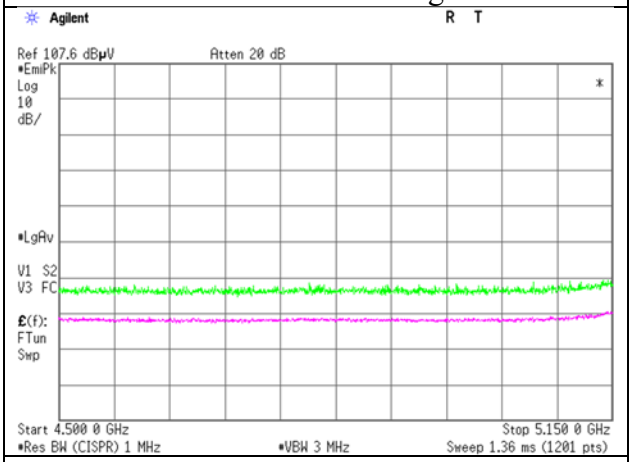
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5240 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	10520.0	45.6	-	39.9	-1.6	33.8	-	50.1	-	68.2	-	18.1	-	
Hori.	15780.0	43.2	33.2	37.4	0.5	33.0	-	48.1	38.2	73.9	53.9	25.8	15.7	Floor noise
Vert.	10520.0	46.0	-	39.9	-1.6	33.8	-	50.5	-	68.2	-	17.7	-	
Vert.	15780.0	43.1	33.2	37.4	0.5	33.0	-	48.1	38.2	73.9	53.9	25.8	15.7	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:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5320 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	50.9	40.6	31.6	6.5	31.9	-	57.1	46.8	73.9	53.9	16.8	7.1	
Hori.	10640.0	45.7	35.0	39.8	-1.6	33.8	-	50.2	39.5	73.9	53.9	23.8	14.4	
Hori.	15960.0	43.3	33.1	37.6	0.6	33.0	-	48.5	38.3	73.9	53.9	25.4	15.6	Floor noise
Vert.	5350.0	49.1	39.0	31.6	6.5	31.9	-	55.3	45.2	73.9	53.9	18.6	8.7	
Vert.	10640.0	47.3	36.1	39.8	-1.6	33.8	-	51.7	40.6	73.9	53.9	22.2	13.3	
Vert.	15960.0	43.3	33.2	37.6	0.6	33.0	-	48.5	38.3	73.9	53.9	25.4	15.6	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.

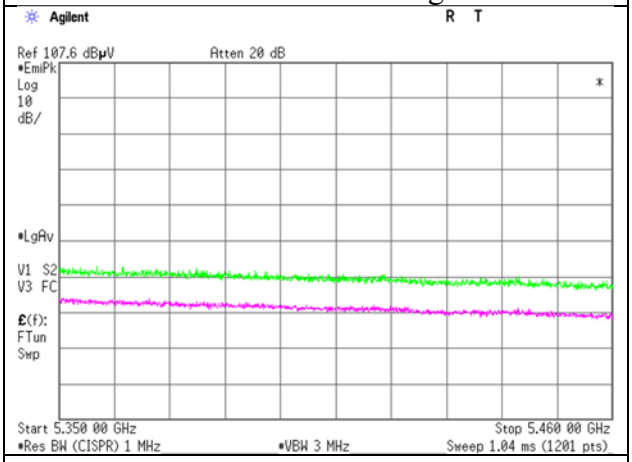
Distance factor:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (OFDM)

Horizontal

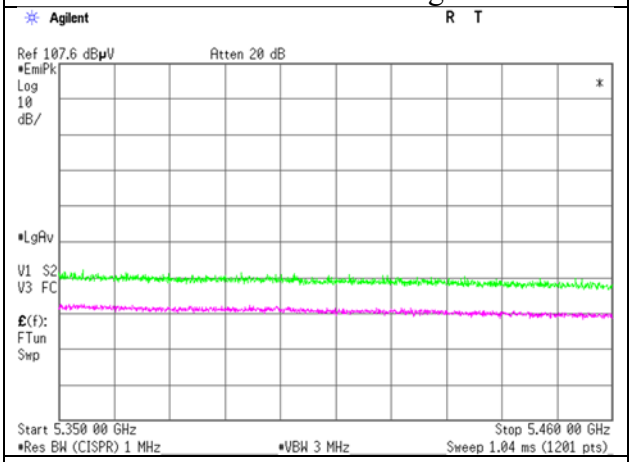
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.				
Semi Anechoic Chamber	No.3	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023	January 16, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH	20 deg. C / 46 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara	Keiya Ido
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)	(Below 1 GHz)
Mode	Tx 11ax-20 5500 MHz (OFDM)				

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.	57.2	27.5	-	8.7	7.5	32.2	-	11.5	-	40.0	-	28.5	-	
Hori.	84.7	30.6	-	7.6	7.9	32.2	-	13.9	-	40.0	-	26.1	-	
Hori.	488.0	33.7	-	17.6	11.3	32.0	-	30.6	-	46.0	-	15.4	-	
Hori.	644.1	35.9	-	19.4	12.3	32.0	-	35.5	-	46.0	-	10.5	-	
Hori.	759.0	35.1	-	20.6	12.9	31.7	-	37.0	-	46.0	-	9.1	-	
Hori.	827.1	30.0	-	21.2	13.3	31.3	-	33.2	-	46.0	-	12.9	-	
Hori.	5460.0	49.5	39.2	31.8	6.6	31.9	-	55.9	45.6	68.2	53.9	12.3	8.3	
Hori.	5470.0	50.4	-	31.8	6.6	31.9	-	56.8	-	68.2	-	11.4	-	
Hori.	11000.0	48.1	36.8	40.2	-1.5	33.8	-	53.0	41.7	73.9	53.9	21.0	12.2	
Hori.	16500.0	43.3	-	40.0	0.8	33.0	-	51.0	-	68.2	-	17.2	-	Floor noise
Vert.	57.2	46.5	-	8.7	7.5	32.2	-	30.5	-	40.0	-	9.5	-	
Vert.	84.7	44.1	-	7.6	7.9	32.2	-	27.4	-	40.0	-	12.6	-	
Vert.	488.0	39.2	-	17.6	11.3	32.0	-	36.1	-	46.0	-	9.9	-	
Vert.	644.1	40.2	-	19.4	12.3	32.0	-	39.8	-	46.0	-	6.2	-	
Vert.	775.8	31.3	-	20.6	13.0	31.6	-	33.4	-	46.0	-	12.7	-	
Vert.	827.1	31.4	-	21.2	13.3	31.3	-	34.6	-	46.0	-	11.5	-	
Vert.	5460.0	50.5	40.6	31.8	6.6	31.9	-	57.0	47.0	68.2	53.9	11.3	6.9	
Vert.	5470.0	51.1	-	31.8	6.6	31.9	-	57.6	-	68.2	-	10.7	-	
Vert.	11000.0	48.2	36.6	40.2	-1.5	33.8	-	53.1	41.5	73.9	53.9	20.8	12.4	
Vert.	16500.0	43.3	-	40.0	0.8	33.0	-	51.0	-	68.2	-	17.2	-	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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

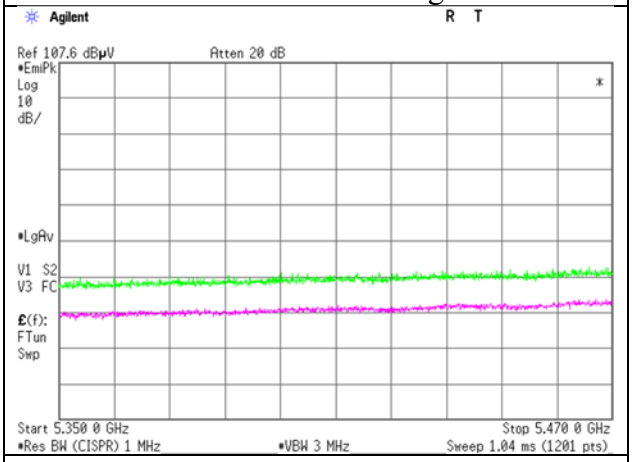
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (OFDM)

Horizontal

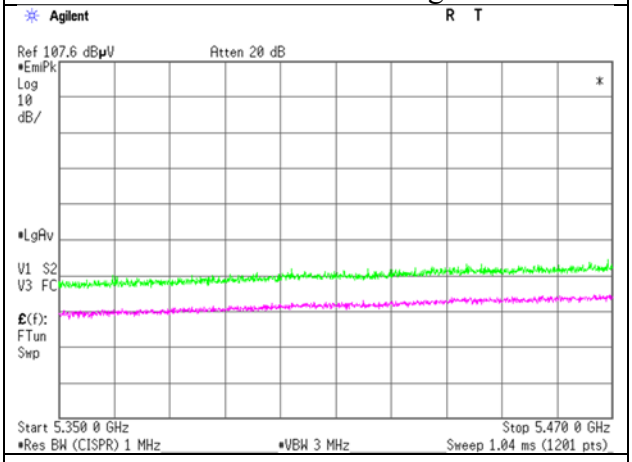
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5580 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	11160.0	49.6	36.9	39.8	-1.4	33.8	-	54.2	41.6	73.9	53.9	19.7	12.3	
Hori.	16740.0	43.6	-	41.0	0.8	33.0	-	52.4	-	68.2	-	15.8	-	Floor noise
Vert.	11160.0	48.9	37.2	39.8	-1.4	33.8	-	53.5	41.8	73.9	53.9	20.4	12.1	
Vert.	16740.0	43.5	-	41.0	0.8	33.0	-	52.3	-	68.2	-	15.9	-	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:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5700 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	52.2	-	31.9	6.7	32.0	-	58.8	-	68.2	-	9.4	-	
Hori.	11400.0	46.5	35.8	40.1	-1.2	33.7	-	51.6	40.9	73.9	53.9	22.3	13.1	
Hori.	17100.0	43.4	-	41.7	0.9	33.0	-	53.1	-	68.2	-	15.1	-	Floor noise
Vert.	5725.0	52.5	-	31.9	6.7	32.0	-	59.2	-	68.2	-	9.0	-	
Vert.	11400.0	45.3	34.5	40.1	-1.2	33.7	-	50.4	39.6	73.9	53.9	23.5	14.3	
Vert.	17100.0	43.4	-	41.7	0.9	33.0	-	53.1	-	68.2	-	15.1	-	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).

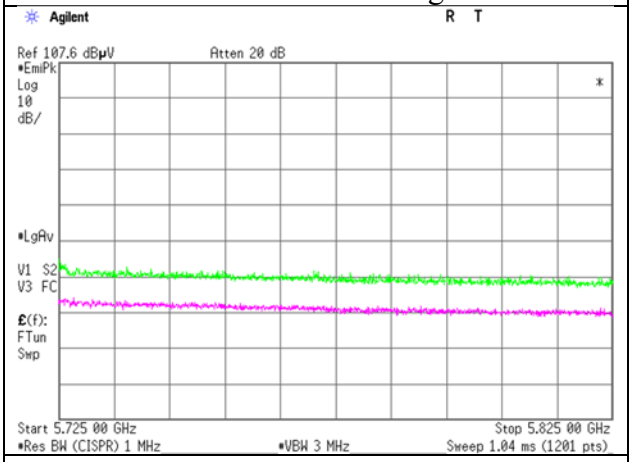
*QP detector was used up to 1GHz.

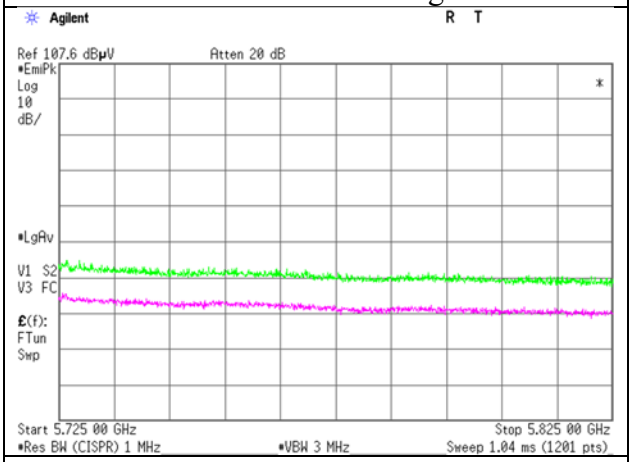
Distance factor: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (OFDM)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5745 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	46.7	-	31.8	6.7	32.0	-	53.2	-	68.2	-	15.0	-	
Hori.	5700.0	48.4	-	31.8	6.7	32.0	-	55.0	-	105.2	-	50.3	-	
Hori.	5720.0	53.9	-	31.9	6.7	32.0	-	60.5	-	110.8	-	50.3	-	
Hori.	5725.0	68.3	-	31.9	6.7	32.0	-	75.0	-	122.2	-	47.3	-	
Hori.	11490.0	44.7	33.9	39.9	-1.2	33.7	-	49.7	38.9	73.9	53.9	24.2	15.0	
Hori.	17235.0	43.6	-	42.8	0.9	33.0	-	54.4	-	68.2	-	13.8	-	Floor noise
Vert.	5650.0	45.4	-	31.8	6.7	32.0	-	51.9	-	68.2	-	16.3	-	
Vert.	5700.0	47.3	-	31.8	6.7	32.0	-	53.9	-	105.2	-	51.3	-	
Vert.	5720.0	53.9	-	31.9	6.7	32.0	-	60.5	-	110.8	-	50.3	-	
Vert.	5725.0	69.6	-	31.9	6.7	32.0	-	76.3	-	122.2	-	46.0	-	
Vert.	11490.0	43.9	33.8	39.9	-1.2	33.7	-	48.9	38.8	73.9	53.9	25.0	15.2	
Vert.	17235.0	43.6	-	42.8	0.9	33.0	-	54.3	-	68.2	-	13.9	-	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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

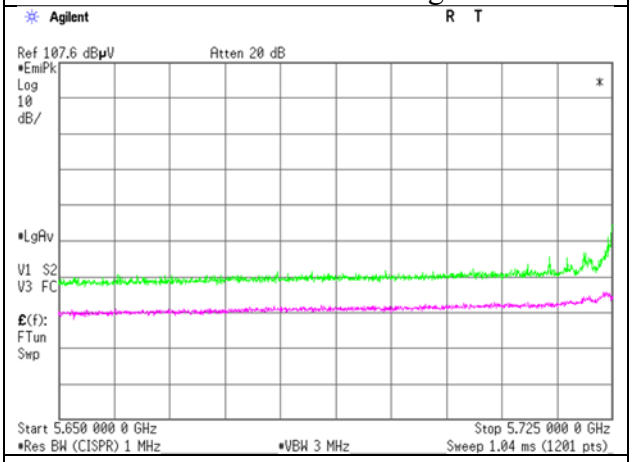
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (OFDM)

Horizontal

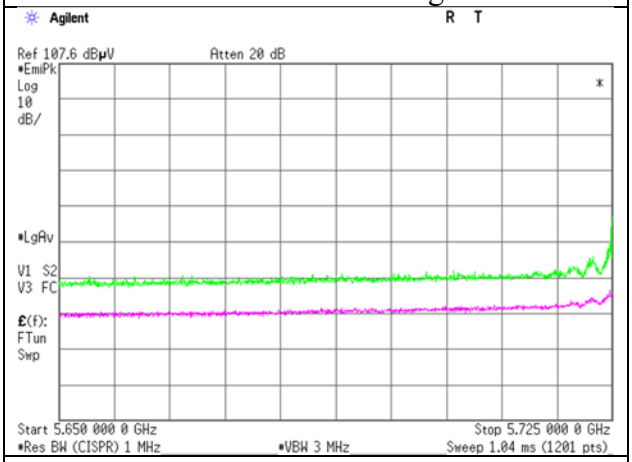
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5785 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	11570.0	43.0	33.3	39.6	-1.2	33.7	-	47.8	38.1	73.9	53.9	26.1	15.8	Floor noise
Hori.	17355.0	43.5	-	44.2	0.9	33.0	-	55.6	-	68.2	-	12.6	-	Floor noise
Vert.	11570.0	43.6	33.3	39.6	-1.2	33.7	-	48.4	38.0	73.9	53.9	25.5	15.9	Floor noise
Vert.	17355.0	43.5	-	44.2	0.9	33.0	-	55.6	-	68.2	-	12.6	-	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:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-20 5825 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	53.1	-	32.2	6.8	32.0	-	60.1	-	122.2	-	62.1	-	
Hori.	5855.0	49.8	-	32.2	6.8	32.0	-	56.8	-	110.8	-	54.0	-	
Hori.	5875.0	49.1	-	32.3	6.8	32.0	-	56.2	-	105.2	-	49.0	-	
Hori.	5925.0	47.7	-	32.3	6.8	32.0	-	54.8	-	68.2	-	13.4	-	
Hori.	11650.0	43.7	33.7	39.3	-1.1	33.7	-	48.1	38.1	73.9	53.9	25.8	15.8	Floor noise
Hori.	17475.0	43.9	-	45.0	0.9	33.0	-	56.8	-	68.2	-	11.4	-	Floor noise
Vert.	5850.0	54.3	-	32.2	6.8	32.0	-	61.3	-	122.2	-	60.9	-	
Vert.	5855.0	50.5	-	32.2	6.8	32.0	-	57.5	-	110.8	-	53.3	-	
Vert.	5875.0	49.0	-	32.3	6.8	32.0	-	56.0	-	105.2	-	49.2	-	
Vert.	5925.0	47.1	-	32.3	6.8	32.0	-	54.2	-	68.2	-	14.0	-	
Vert.	11650.0	44.3	33.7	39.3	-1.1	33.7	-	48.8	38.1	73.9	53.9	25.1	15.8	Floor noise
Vert.	17475.0	44.0	-	45.0	0.9	33.0	-	56.9	-	68.2	-	11.3	-	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.

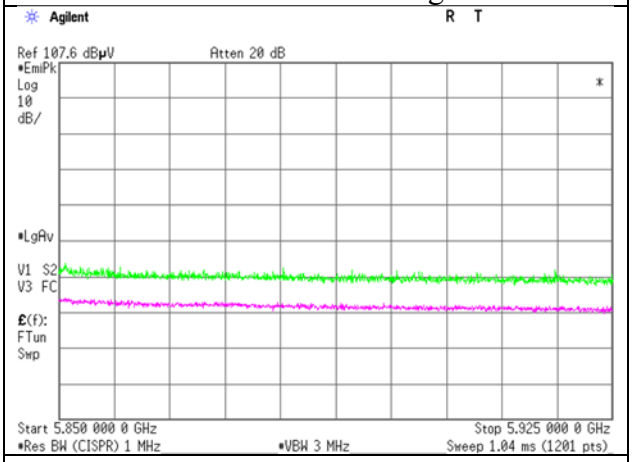
Distance factor:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (OFDM)

Horizontal

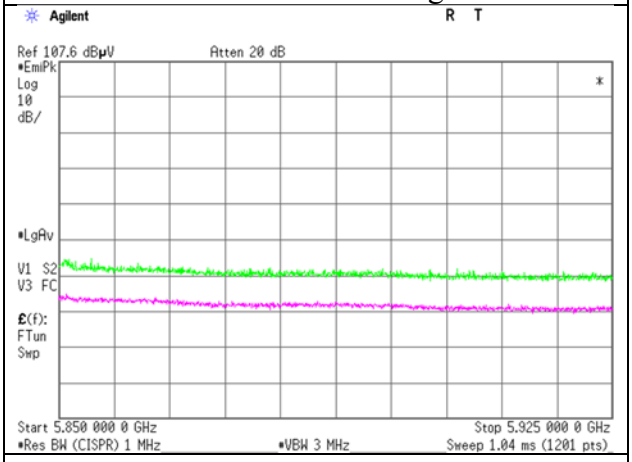
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5190 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	49.2	37.8	31.9	6.4	31.9	-	55.5	44.1	73.9	53.9	18.4	9.8	
Hori.	10380.0	43.7	-	40.0	-1.7	33.8	-	48.3	-	68.2	-	19.9	-	Floor noise
Hori.	15570.0	43.7	33.1	37.7	0.5	33.0	-	48.9	38.4	73.9	53.9	25.0	15.5	Floor noise
Vert.	5150.0	47.8	37.3	31.9	6.4	31.9	-	54.1	43.7	73.9	53.9	19.8	10.2	
Vert.	10380.0	43.3	-	40.0	-1.7	33.8	-	47.9	-	68.2	-	20.3	-	Floor noise
Vert.	15570.0	43.1	33.2	37.7	0.5	33.0	-	48.3	38.4	73.9	53.9	25.6	15.5	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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

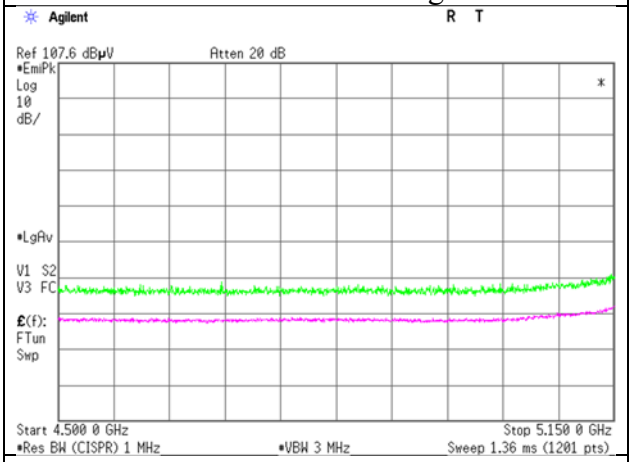
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (OFDM)

Horizontal

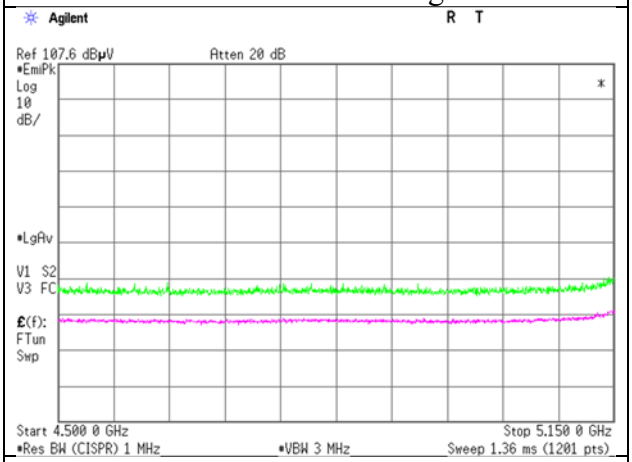
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5270 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	10540.0	45.6	-	39.9	-1.6	33.8	-	50.1	-	68.2	-	18.1	-	
Hori.	15810.0	43.3	33.1	37.3	0.5	33.0	-	48.2	38.0	73.9	53.9	25.7	15.9	Floor noise
Vert.	10540.0	44.7	-	39.9	-1.6	33.8	-	49.2	-	68.2	-	19.0	-	
Vert.	15810.0	43.3	33.1	37.3	0.5	33.0	-	48.2	38.0	73.9	53.9	25.7	15.9	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:
1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5310 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	52.4	41.2	31.6	6.5	31.9	-	58.6	47.4	73.9	53.9	15.3	6.6	
Hori.	10620.0	45.4	34.8	39.8	-1.6	33.8	-	49.8	39.2	73.9	53.9	24.1	14.7	
Hori.	15930.0	43.2	33.2	37.5	0.6	33.0	-	48.3	38.3	73.9	53.9	25.7	15.6	Floor noise
Vert.	5350.0	50.6	40.3	31.6	6.5	31.9	-	56.7	46.5	73.9	53.9	17.2	7.4	
Vert.	10620.0	45.3	34.8	39.8	-1.6	33.8	-	49.7	39.2	73.9	53.9	24.2	14.7	
Vert.	15930.0	43.2	33.2	37.5	0.6	33.0	-	48.3	38.3	73.9	53.9	25.6	15.6	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.

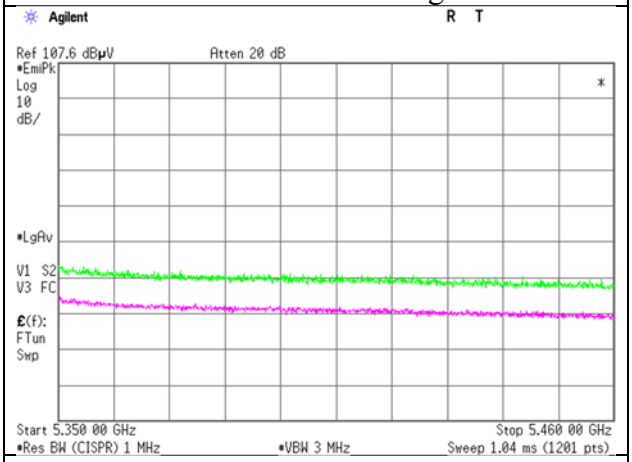
Distance factor: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (OFDM)

Horizontal

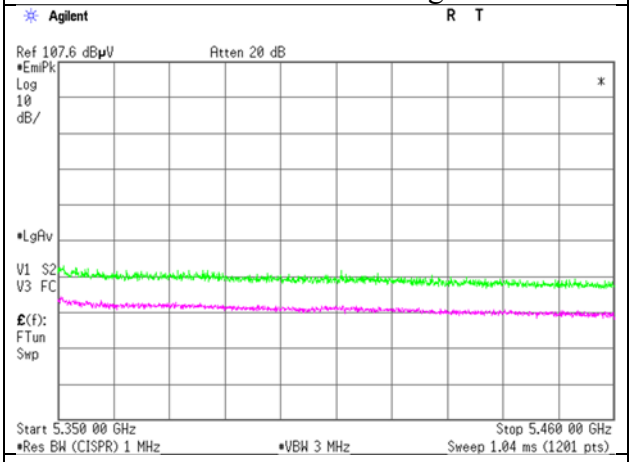
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5510 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	49.6	39.4	31.8	6.6	31.9	-	56.0	45.8	68.2	53.9	12.2	8.1	
Hori.	5470.0	53.6	-	31.8	6.6	31.9	-	60.0	-	68.2	-	8.2	-	
Hori.	11020.0	47.7	36.3	40.1	-1.5	33.8	-	52.6	41.2	73.9	53.9	21.3	12.7	
Hori.	16530.0	43.6	-	40.0	0.8	33.0	-	51.4	-	68.2	-	16.9	-	Floor noise
Vert.	5460.0	48.9	38.7	31.8	6.6	31.9	-	55.4	45.2	68.2	53.9	12.9	8.7	
Vert.	5470.0	52.7	-	31.8	6.6	31.9	-	59.1	-	68.2	-	9.1	-	
Vert.	11020.0	47.1	36.2	40.1	-1.5	33.8	-	51.9	41.0	73.9	53.9	22.0	12.9	
Vert.	16530.0	43.6	-	40.0	0.8	33.0	-	51.3	-	68.2	-	16.9	-	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.

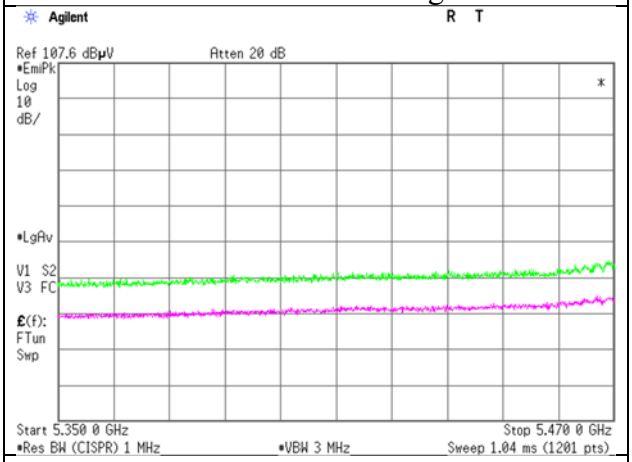
Distance factor:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (OFDM)

Horizontal

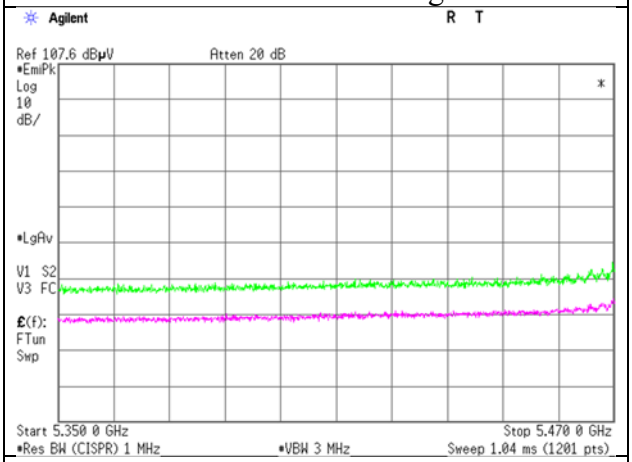
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5550 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	11100.0	46.4	35.5	39.9	-1.4	33.8	-	51.1	40.2	73.9	53.9	22.8	13.7	
Hori.	16650.0	43.6	-	40.6	0.8	33.0	-	52.0	-	68.2	-	16.2	-	Floor noise
Vert.	11100.0	46.0	35.6	39.9	-1.4	33.8	-	50.7	40.3	73.9	53.9	23.2	13.6	
Vert.	16650.0	43.6	-	40.6	0.8	33.0	-	52.0	-	68.2	-	16.2	-	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:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5670 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	48.5	-	31.9	6.7	32.0	-	55.2	-	68.2	-	13.0	-	
Hori.	11340.0	45.8	34.3	40.0	-1.3	33.8	-	50.8	39.3	73.9	53.9	23.1	14.6	
Hori.	17010.0	43.5	-	41.5	1.0	33.0	-	52.9	-	68.2	-	15.3	-	Floor noise
Vert.	5725.0	46.0	-	31.9	6.7	32.0	-	52.7	-	68.2	-	15.5	-	
Vert.	11340.0	45.2	34.3	40.0	-1.3	33.8	-	50.2	39.2	73.9	53.9	23.7	14.7	
Vert.	17010.0	32.6	-	41.5	1.0	33.0	-	42.0	-	68.2	-	26.2	-	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.

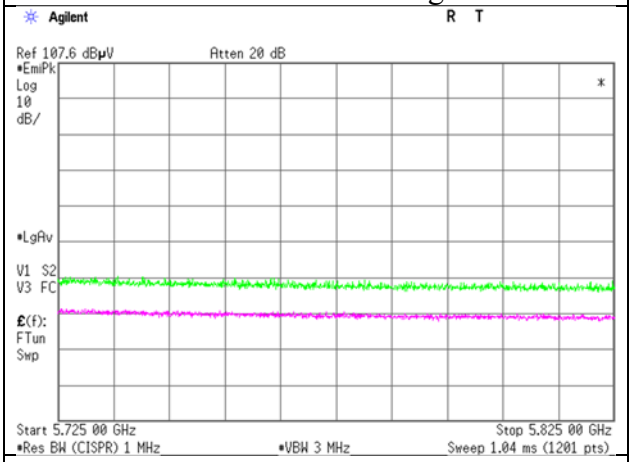
Distance factor:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (OFDM)

Horizontal

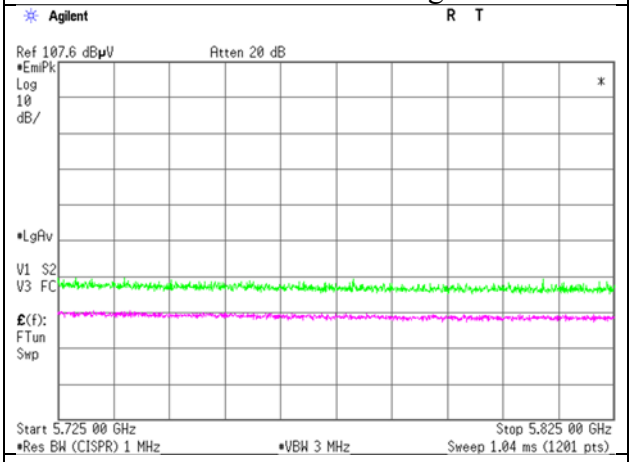
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5755 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	44.9	-	31.8	6.7	32.0	-	51.3	-	68.2	-	16.9	-	
Hori.	5700.0	48.6	-	31.8	6.7	32.0	-	55.2	-	105.2	-	50.0	-	
Hori.	5720.0	57.3	-	31.9	6.7	32.0	-	64.0	-	110.8	-	46.8	-	
Hori.	5725.0	60.5	-	31.9	6.7	32.0	-	67.2	-	122.2	-	55.0	-	
Hori.	11510.0	43.8	33.3	39.9	-1.2	33.7	-	48.8	38.3	73.9	53.9	25.1	15.6	Floor noise
Hori.	17265.0	43.4	-	43.2	0.9	33.0	-	54.4	-	68.2	-	13.8	-	Floor noise
Vert.	5650.0	43.4	-	31.8	6.7	32.0	-	49.9	-	68.2	-	18.3	-	
Vert.	5700.0	47.1	-	31.8	6.7	32.0	-	53.6	-	105.2	-	51.6	-	
Vert.	5720.0	56.6	-	31.9	6.7	32.0	-	63.2	-	110.8	-	47.6	-	
Vert.	5725.0	59.1	-	31.9	6.7	32.0	-	65.7	-	122.2	-	56.5	-	
Vert.	11510.0	43.5	33.3	39.9	-1.2	33.7	-	48.5	38.3	73.9	53.9	25.4	15.6	Floor noise
Vert.	17265.0	43.3	-	43.2	0.9	33.0	-	54.4	-	68.2	-	13.8	-	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.

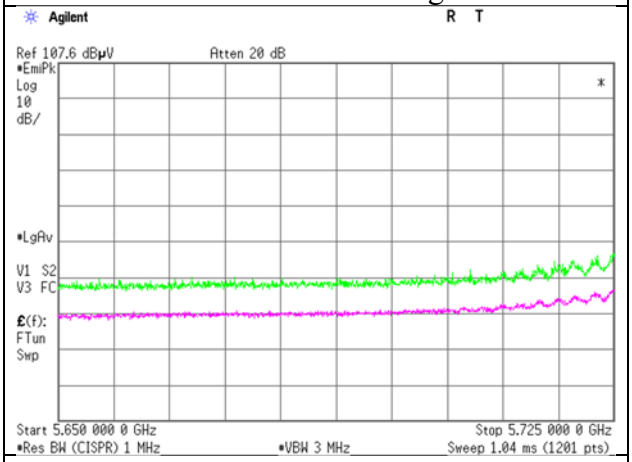
Distance factor: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (OFDM)

Horizontal

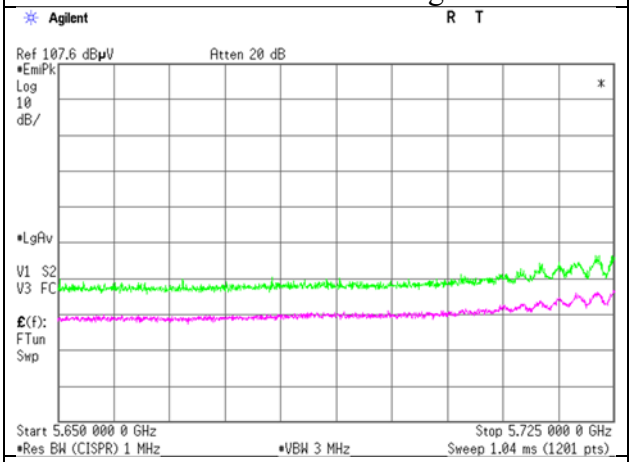
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-40 5795 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	45.5	-	32.2	6.8	32.0	-	52.5	-	122.2	-	69.7	-	
Hori.	5855.0	45.4	-	32.2	6.8	32.0	-	52.4	-	110.8	-	58.4	-	
Hori.	5875.0	45.0	-	32.3	6.8	32.0	-	52.0	-	105.2	-	53.2	-	
Hori.	5925.0	43.3	-	32.3	6.8	32.0	-	50.5	-	68.2	-	17.7	-	
Hori.	11590.0	43.4	33.1	39.5	-1.1	33.7	-	48.1	37.7	73.9	53.9	25.8	16.2	Floor noise
Hori.	17385.0	43.2	-	44.4	0.9	33.0	-	55.5	-	68.2	-	12.7	-	Floor noise
Vert.	5850.0	45.3	-	32.2	6.8	32.0	-	52.3	-	122.2	-	69.9	-	
Vert.	5855.0	44.7	-	32.2	6.8	32.0	-	51.8	-	110.8	-	59.0	-	
Vert.	5875.0	43.9	-	32.3	6.8	32.0	-	51.0	-	105.2	-	54.2	-	
Vert.	5925.0	42.8	-	32.3	6.8	32.0	-	50.0	-	68.2	-	18.2	-	
Vert.	11590.0	43.3	33.2	39.5	-1.1	33.7	-	48.0	37.8	73.9	53.9	25.9	16.1	Floor noise
Vert.	17385.0	43.2	-	44.4	0.9	33.0	-	55.5	-	68.2	-	12.7	-	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.

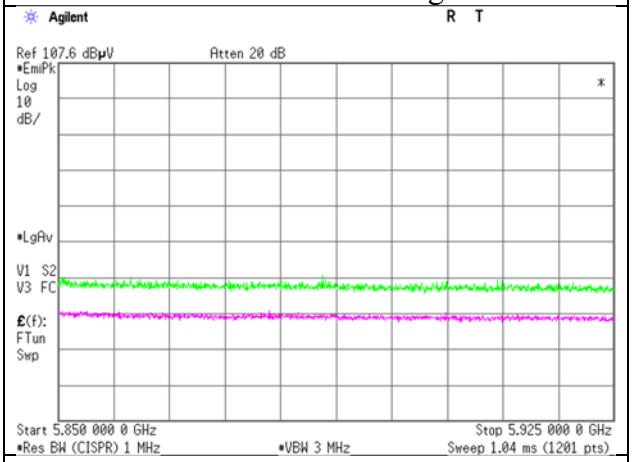
Distance factor:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (OFDM)

Horizontal

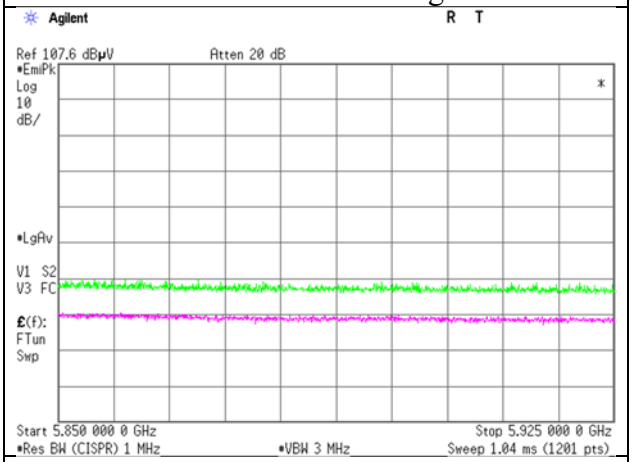
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-80 5210 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	51.9	40.5	31.9	6.4	31.9	0.1	58.3	47.0	73.9	53.9	15.6	6.9	*1)
Hori.	10420.0	43.9	-	40.0	-1.6	33.8	-	48.5	-	68.2	-	19.7	-	Floor noise
Hori.	15630.0	43.3	33.2	37.6	0.5	33.0	-	48.4	38.3	73.9	53.9	25.5	15.6	Floor noise
Vert.	5150.0	50.0	39.8	31.9	6.4	31.9	0.1	56.3	46.3	73.9	53.9	17.6	7.6	*1)
Vert.	10420.0	43.4	-	40.0	-1.6	33.8	-	48.0	-	68.2	-	20.2	-	Floor noise
Vert.	15630.0	43.4	33.2	37.6	0.5	33.0	-	48.5	38.3	73.9	53.9	25.4	15.6	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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

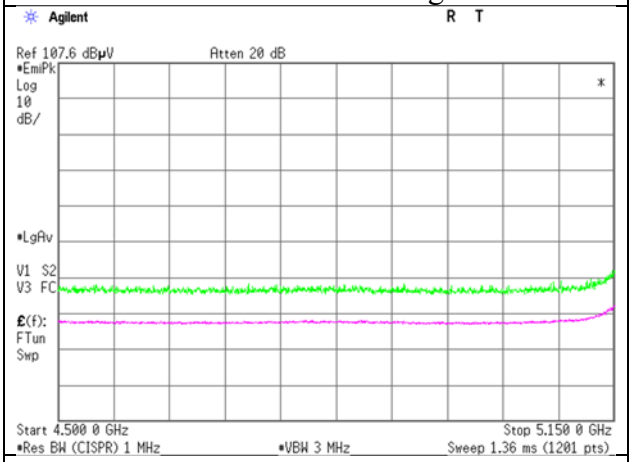
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (OFDM)

Horizontal

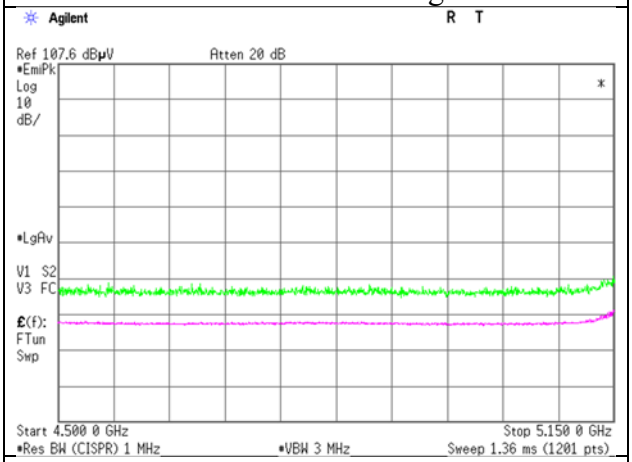
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-80 5290 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	54.7	43.7	31.6	6.5	31.9	0.1	60.9	50.0	73.9	53.9	13.0	3.9	*1)
Hori.	10580.0	43.7	-	39.8	-1.6	33.8	-	48.2	-	68.2	-	20.0	-	Floor noise
Hori.	15870.0	43.1	33.1	37.4	0.5	33.0	-	48.1	38.1	73.9	53.9	25.8	15.8	Floor noise
Vert.	5350.0	53.8	42.1	31.6	6.5	31.9	0.1	59.9	48.4	73.9	53.9	14.0	5.5	*1)
Vert.	10580.0	44.3	-	39.8	-1.6	33.8	-	48.8	-	68.2	-	19.4	-	Floor noise
Vert.	15870.0	43.1	33.1	37.4	0.5	33.0	-	48.1	38.1	73.9	53.9	25.8	15.8	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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

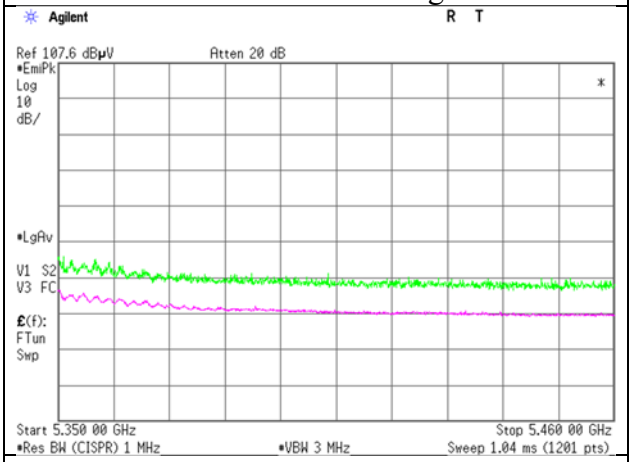
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (OFDM)

Horizontal

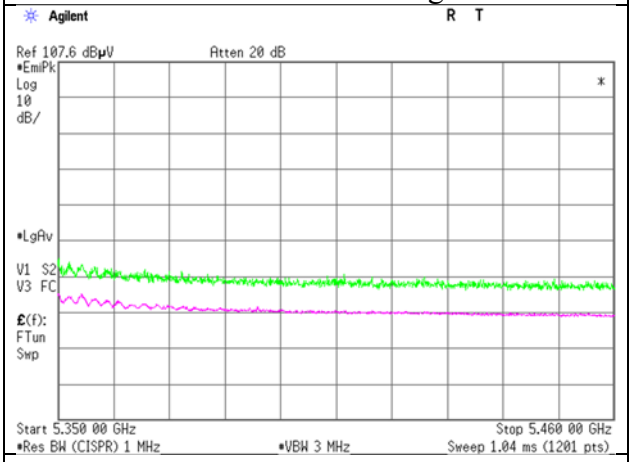
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-80 5530 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	52.2	41.1	31.8	6.6	31.9	0.1	58.6	47.7	68.2	53.9	9.6	6.2	*1)
Hori.	5470.0	54.4	-	31.8	6.6	31.9	-	60.8	-	68.2	-	7.4	-	
Hori.	11060.0	44.9	34.3	40.0	-1.4	33.8	-	49.7	39.0	73.9	53.9	24.2	14.9	Floor noise
Hori.	16590.0	43.5	-	40.4	0.8	33.0	-	51.7	-	68.2	-	16.5	-	Floor noise
Vert.	5460.0	50.7	40.4	31.8	6.6	31.9	0.1	57.1	47.0	68.2	53.9	11.1	6.9	*1)
Vert.	5470.0	53.4	-	31.8	6.6	31.9	-	59.8	-	68.2	-	8.4	-	
Vert.	11060.0	45.7	34.6	40.0	-1.4	33.8	-	50.4	39.4	73.9	53.9	23.5	14.5	Floor noise
Vert.	16590.0	43.5	-	40.4	0.8	33.0	-	51.7	-	68.2	-	16.5	-	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.

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

Distance factor: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

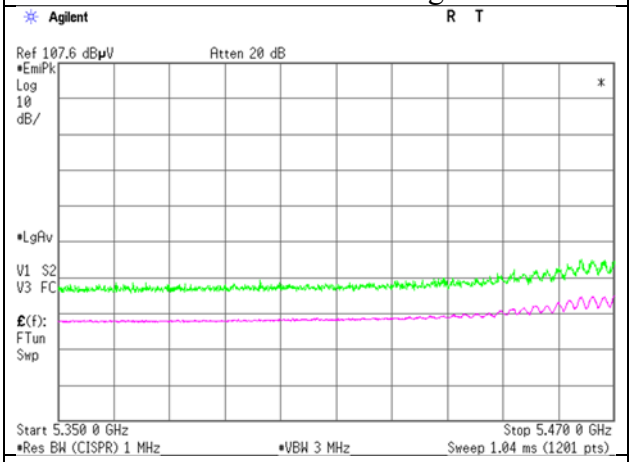
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5530 MHz (OFDM)

Horizontal

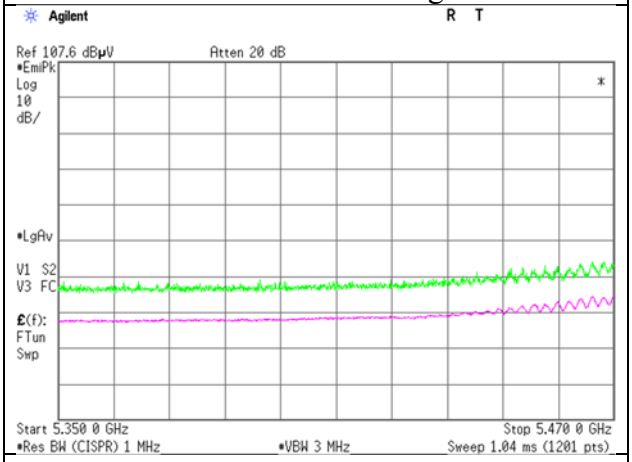
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-80 5610 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	45.4	-	31.9	6.7	32.0	-	52.1	-	68.2	-	16.1	-	
Hori.	11220.0	43.8	33.6	39.8	-1.3	33.8	-	48.5	38.3	73.9	53.9	25.4	15.6	Floor noise
Hori.	16830.0	43.4	-	41.3	0.9	33.0	-	52.6	-	68.2	-	15.7	-	Floor noise
Vert.	5725.0	44.4	-	31.9	6.7	32.0	-	51.1	-	68.2	-	17.1	-	
Vert.	11220.0	44.6	34.3	39.8	-1.3	33.8	-	49.3	39.0	73.9	53.9	24.6	14.9	Floor noise
Vert.	16830.0	43.3	-	41.3	0.9	33.0	-	52.5	-	68.2	-	15.7	-	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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

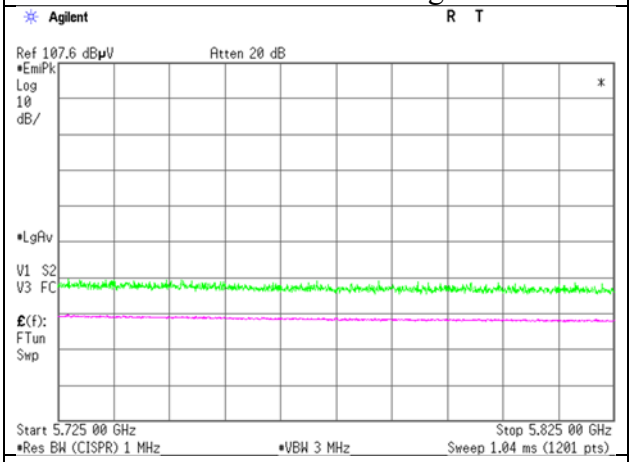
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5610 MHz (OFDM)

Horizontal

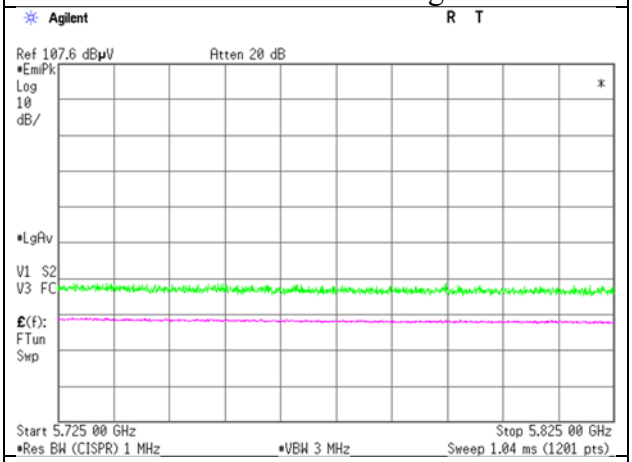
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-80 5690 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	11380.0	43.5	33.3	40.1	-1.3	33.8	-	48.6	38.4	73.9	53.9	25.3	15.5	Floor noise
Hori.	17070.0	43.3	-	41.6	0.9	33.0	-	52.8	-	68.2	-	15.4	-	Floor noise
Vert.	11380.0	44.5	33.8	40.1	-1.3	33.8	-	49.6	38.9	73.9	53.9	24.3	15.0	Floor noise
Vert.	17070.0	43.3	-	41.6	0.9	33.0	-	52.8	-	68.2	-	15.4	-	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.

Distance factor:	1 GHz - 10 GHz	20log (3.95 m / 3.0 m) = 2.39 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	January 8, 2023	January 13, 2023	January 15, 2023	January 15, 2023
Temperature / Humidity	23 deg. C / 40 % RH	20 deg. C / 35 % RH	20 deg. C / 42 % RH	22 deg. C / 34 % RH
Engineer	Sayaka Hara	Sayaka Hara	Takafumi Noguchi	Sayaka Hara
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(26.5 GHz - 40 GHz)	(18 GHz - 26.5 GHz)
Mode	Tx 11ax-80 5775 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	44.1	-	31.8	6.7	32.0	-	50.6	-	68.2	-	17.6	-	
Hori.	5700.0	49.0	-	31.8	6.7	32.0	-	55.6	-	105.2	-	49.6	-	
Hori.	5720.0	52.2	-	31.9	6.7	32.0	-	58.8	-	110.8	-	52.0	-	
Hori.	5725.0	56.5	-	31.9	6.7	32.0	-	63.2	-	122.2	-	59.0	-	
Hori.	5850.0	46.8	-	32.2	6.8	32.0	-	53.8	-	122.2	-	68.4	-	
Hori.	5855.0	46.2	-	32.2	6.8	32.0	-	53.2	-	110.8	-	57.6	-	
Hori.	5875.0	44.7	-	32.3	6.8	32.0	-	51.8	-	105.2	-	53.4	-	
Hori.	5925.0	43.9	-	32.3	6.8	32.0	-	51.1	-	68.2	-	17.1	-	
Hori.	11550.0	43.0	32.5	39.7	-1.2	33.7	-	47.8	37.3	73.9	53.9	26.1	16.6	Floor noise
Hori.	17325.0	43.2	-	43.8	0.9	33.0	-	55.0	-	68.2	-	13.2	-	Floor noise
Vert.	5650.0	43.8	-	31.8	6.7	32.0	-	50.3	-	68.2	-	17.9	-	
Vert.	5700.0	49.1	-	31.8	6.7	32.0	-	55.6	-	105.2	-	49.6	-	
Vert.	5720.0	51.2	-	31.9	6.7	32.0	-	57.9	-	110.8	-	52.9	-	
Vert.	5725.0	54.0	-	31.9	6.7	32.0	-	60.6	-	122.2	-	61.6	-	
Vert.	5850.0	47.3	-	32.2	6.8	32.0	-	54.4	-	122.2	-	67.9	-	
Vert.	5855.0	47.2	-	32.2	6.8	32.0	-	54.2	-	110.8	-	56.6	-	
Vert.	5875.0	44.1	-	32.3	6.8	32.0	-	51.2	-	105.2	-	54.1	-	
Vert.	5925.0	42.8	-	32.3	6.8	32.0	-	49.9	-	68.2	-	18.3	-	
Vert.	11550.0	42.9	32.5	39.7	-1.2	33.7	-	47.7	37.3	73.9	53.9	26.2	16.6	Floor noise
Vert.	17325.0	43.2	-	43.8	0.9	33.0	-	55.0	-	68.2	-	13.2	-	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

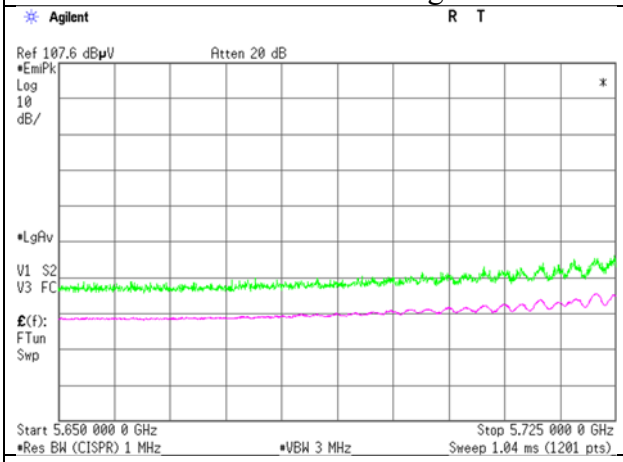
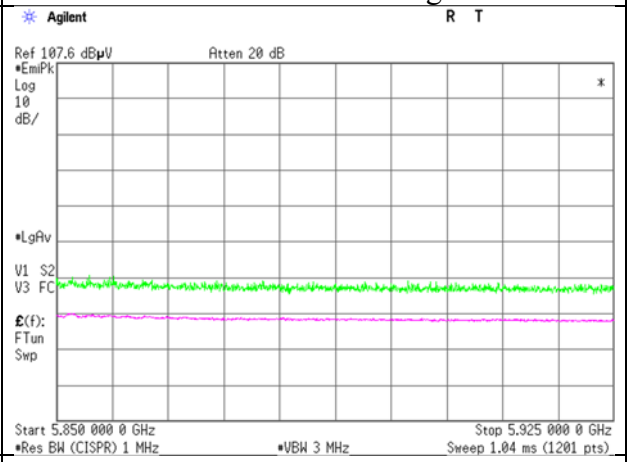
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

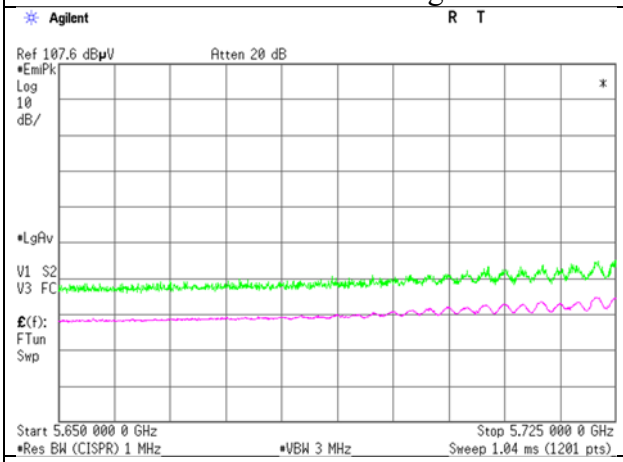
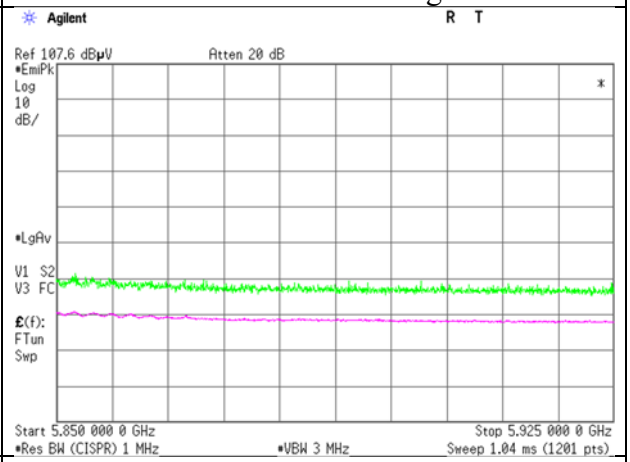
*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5775 MHz (OFDM)

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (26-tone RU)

RU Index 0

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	41.5	31.1	31.9	6.4	31.9	0.2	47.9	37.7	73.9	53.9	26.1	16.2	*1)
Vert.	5150.0	41.6	31.1	31.9	6.4	31.9	0.2	48.0	37.8	73.9	53.9	25.9	16.2	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

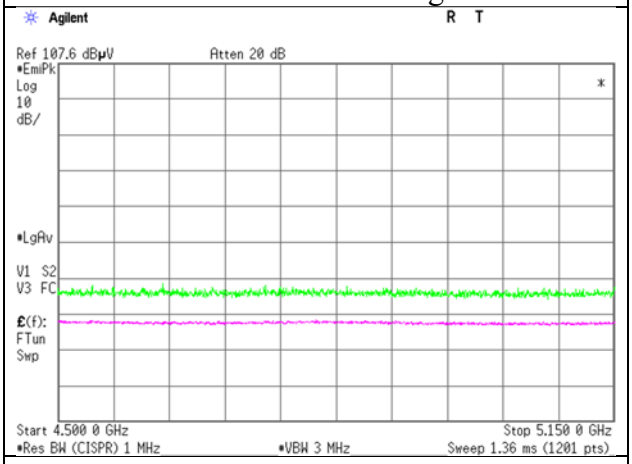
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (26-tone RU)

RU Index 0

Horizontal

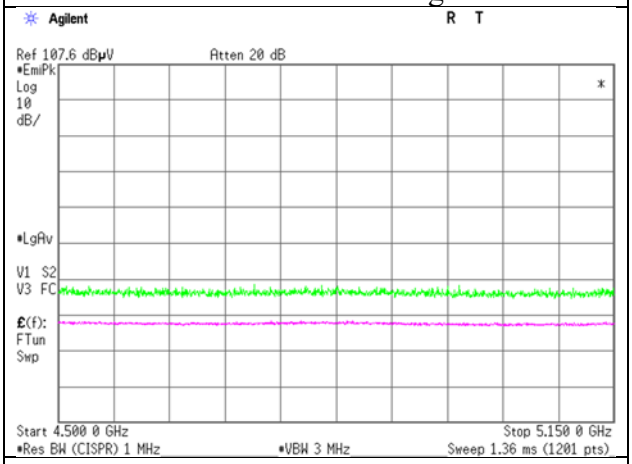
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (52-tone RU)

RU Index 37

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	41.5	31.6	31.9	6.4	31.9	0.3	47.9	38.3	73.9	53.9	26.0	15.6	*1)
Vert.	5150.0	41.9	31.6	31.9	6.4	31.9	0.3	48.3	38.2	73.9	53.9	25.6	15.7	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

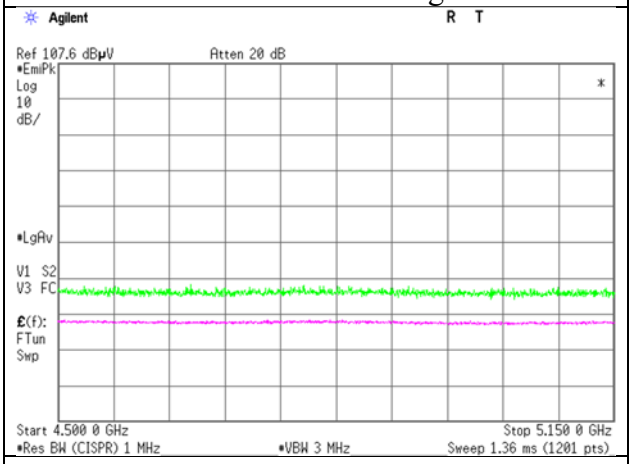
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (52-tone RU)

RU Index 37

Horizontal

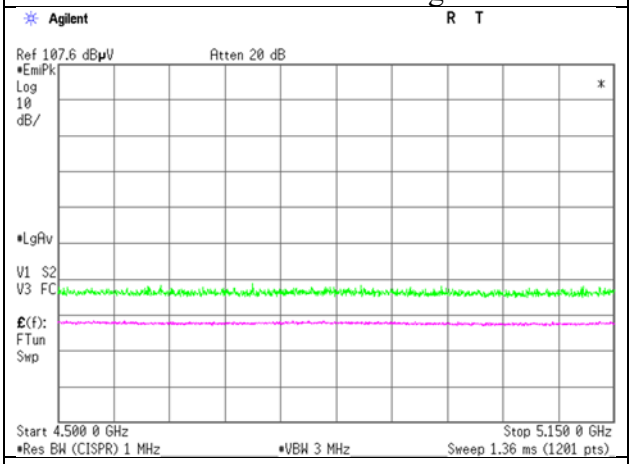
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (106-tone RU)

RU Index 53

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	43.9	33.3	31.9	6.4	31.9	0.3	50.3	40.0	73.9	53.9	23.6	13.9	*1)
Vert.	5150.0	43.1	32.7	31.9	6.4	31.9	0.3	49.4	39.4	73.9	53.9	24.5	14.5	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

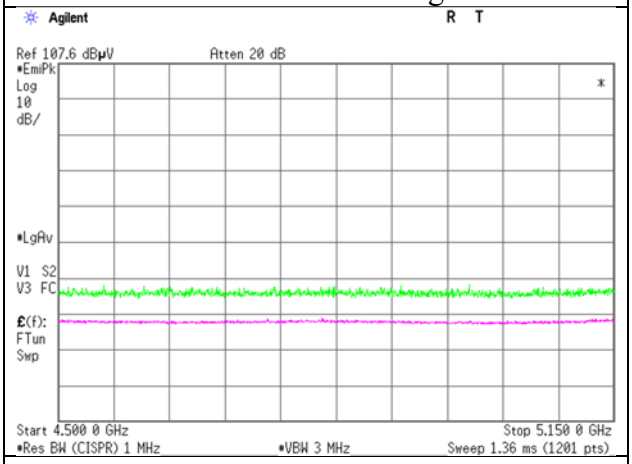
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (106-tone RU)

RU Index 53

Horizontal

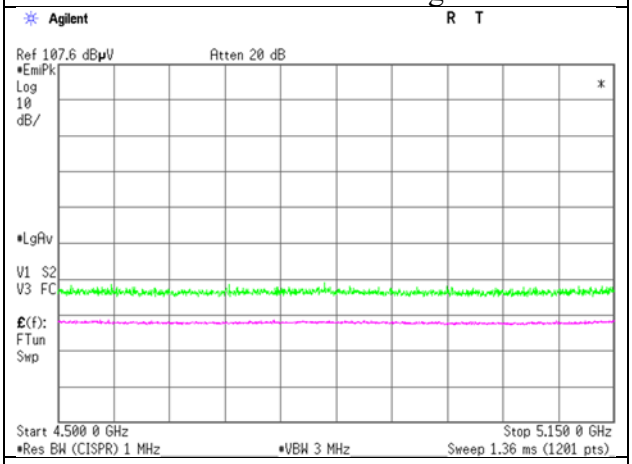
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	45.6	35.0	31.9	6.4	31.9	0.4	52.0	41.7	73.9	53.9	22.0	12.2	*1)
Vert.	5150.0	44.2	33.5	31.9	6.4	31.9	0.4	50.6	40.3	73.9	53.9	23.4	13.7	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

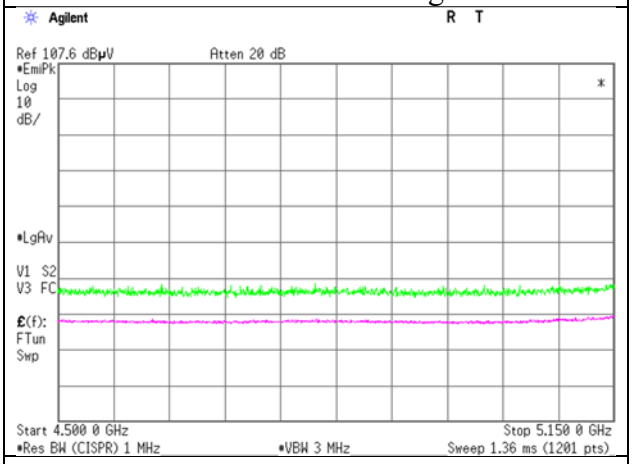
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (242-tone RU)

RU Index 61

Horizontal

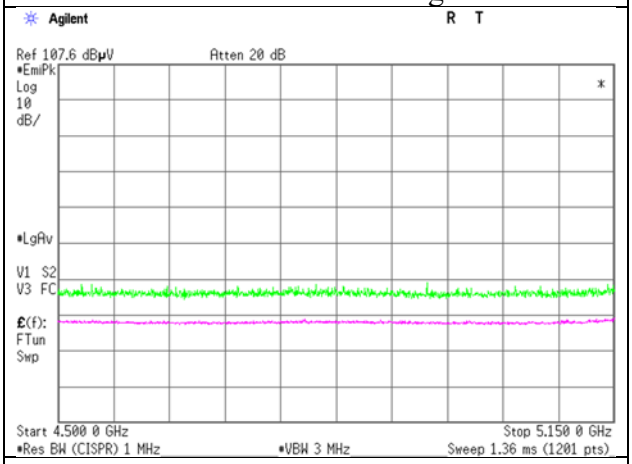
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (26-tone RU)

RU Index 8

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	42.0	31.9	31.6	6.5	31.9	0.2	48.2	38.4	73.9	53.9	25.7	15.6	*1)
Vert.	5350.0	41.8	32.1	31.6	6.5	31.9	0.2	48.0	38.6	73.9	53.9	26.0	15.3	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

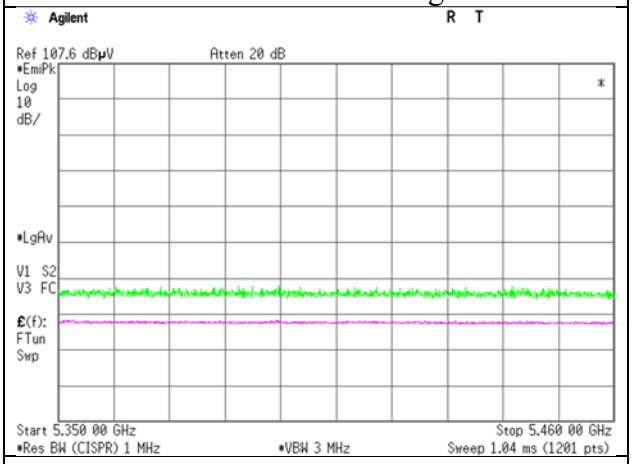
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (26-tone RU)

RU Index 8

Horizontal

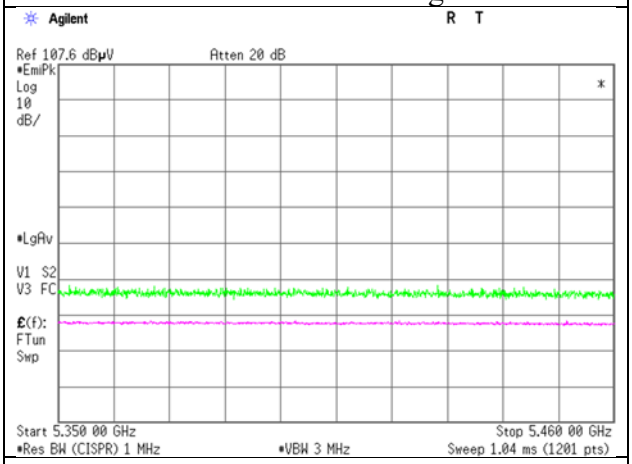
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (52-tone RU)

RU Index 40

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	43.0	33.4	31.6	6.5	31.9	0.3	49.2	39.9	73.9	53.9	24.7	14.1	*1)
Vert.	5350.0	43.4	33.4	31.6	6.5	31.9	0.3	49.6	39.9	73.9	53.9	24.3	14.0	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

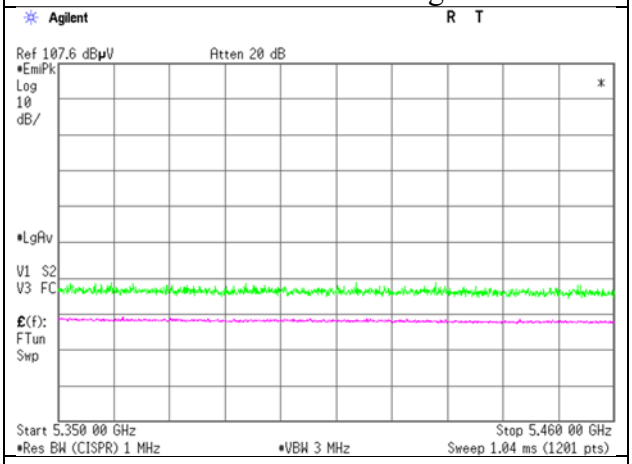
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (52-tone RU)

RU Index 40

Horizontal

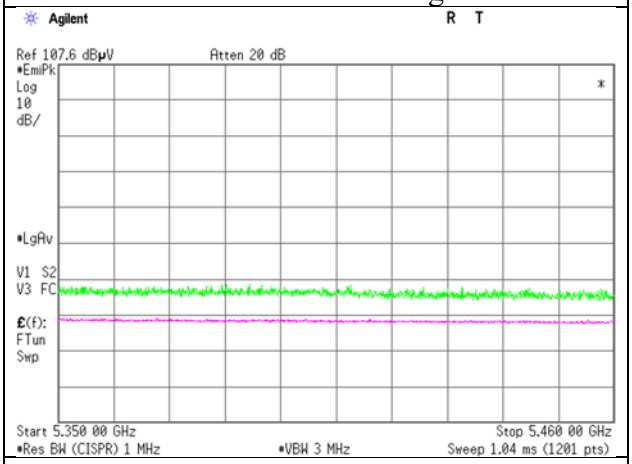
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (106-tone RU)

RU Index 54

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	44.9	35.0	31.6	6.5	31.9	0.3	51.0	41.5	73.9	53.9	22.9	12.4	*1)
Vert.	5350.0	45.8	34.8	31.6	6.5	31.9	0.3	52.0	41.3	73.9	53.9	21.9	12.6	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

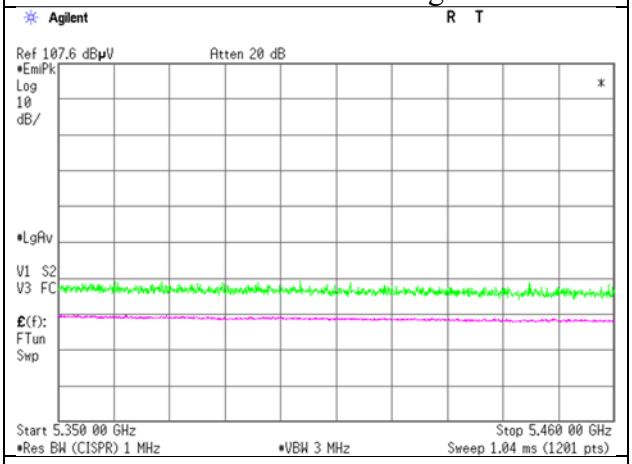
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (106-tone RU)

RU Index 54

Horizontal

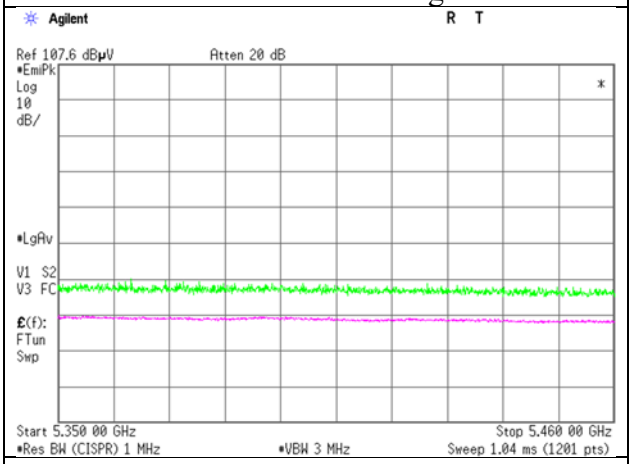
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	47.0	37.3	31.6	6.5	31.9	0.4	53.2	43.9	73.9	53.9	20.8	10.0	*1)
Vert.	5350.0	47.2	36.8	31.6	6.5	31.9	0.4	53.4	43.4	73.9	53.9	20.5	10.5	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

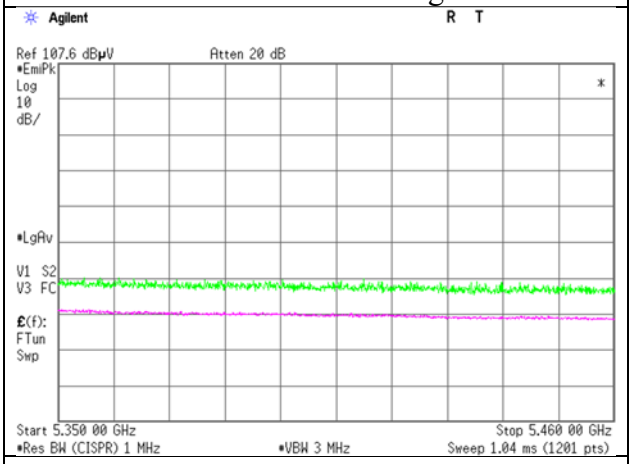
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (242-tone RU)

RU Index 61

Horizontal

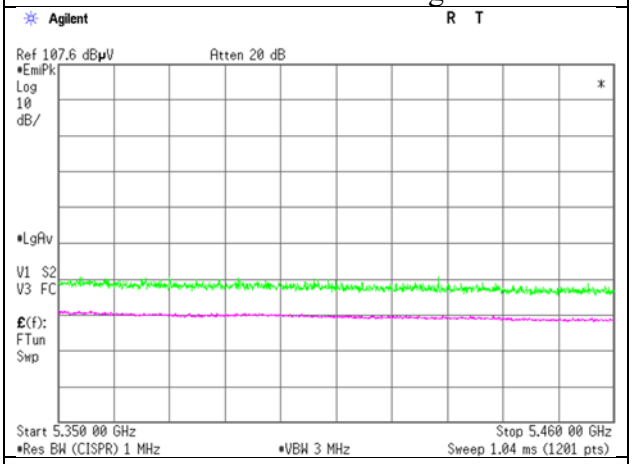
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (26-tone RU)

RU Index 0

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	41.3	31.5	31.8	6.6	31.9	0.2	47.7	38.1	68.2	53.9	20.5	15.8	*1)
Hori.	5470.0	42.2	-	31.8	6.6	31.9	-	48.6	-	68.2	-	19.6	-	
Vert.	5460.0	41.9	32.0	31.8	6.6	31.9	0.2	48.3	38.7	68.2	53.9	19.9	15.3	*1)
Vert.	5470.0	41.8	-	31.8	6.6	31.9	-	48.2	-	68.2	-	20.0	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

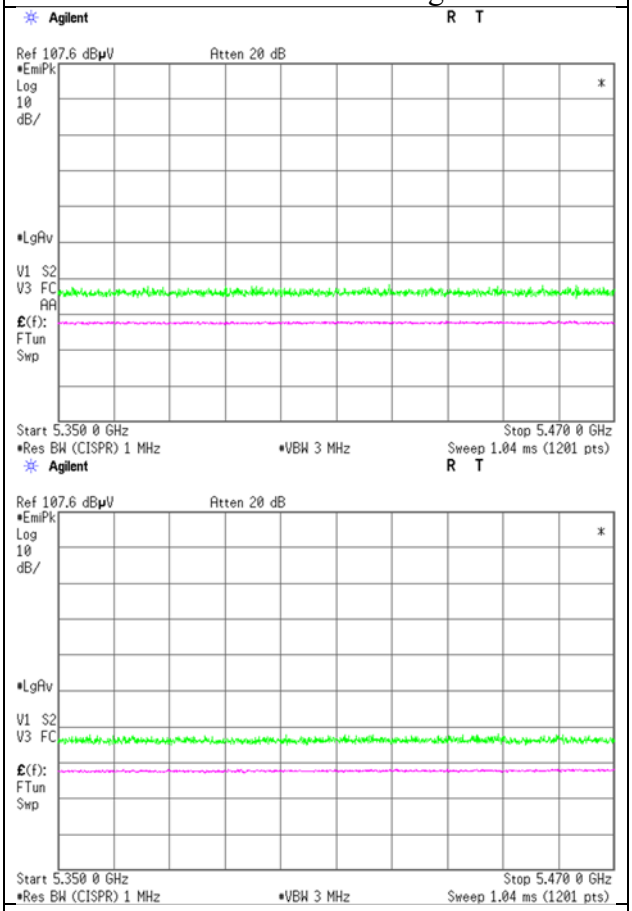
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (26-tone RU)

RU Index 0

Horizontal

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (52-tone RU)

RU Index 37

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	44.6	34.2	31.8	6.6	31.9	0.3	51.0	40.9	68.2	53.9	17.2	13.0	*1)
Hori.	5470.0	45.0	-	31.8	6.6	31.9	-	51.4	-	68.2	-	16.8	-	
Vert.	5460.0	44.5	34.3	31.8	6.6	31.9	0.3	51.0	41.0	68.2	53.9	17.3	12.9	*1)
Vert.	5470.0	44.9	-	31.8	6.6	31.9	-	51.3	-	68.2	-	16.9	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

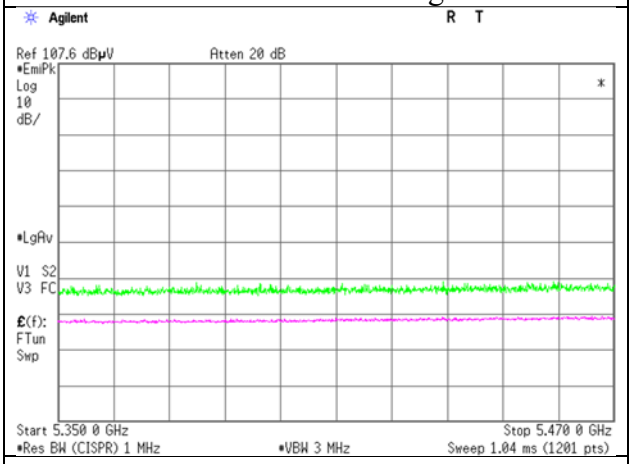
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (52-tone RU)

RU Index 37

Horizontal

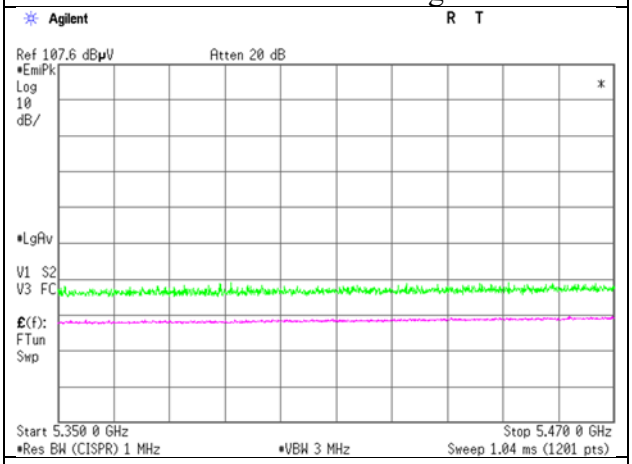
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (106-tone RU)

RU Index 53

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	45.8	36.0	31.8	6.6	31.9	0.3	52.3	42.7	68.2	53.9	16.0	11.2	*1)
Hori.	5470.0	46.1	-	31.8	6.6	31.9	-	52.5	-	68.2	-	15.7	-	
Vert.	5460.0	46.5	36.2	31.8	6.6	31.9	0.3	52.9	42.9	68.2	53.9	15.3	11.0	*1)
Vert.	5470.0	46.7	-	31.8	6.6	31.9	-	53.1	-	68.2	-	15.1	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

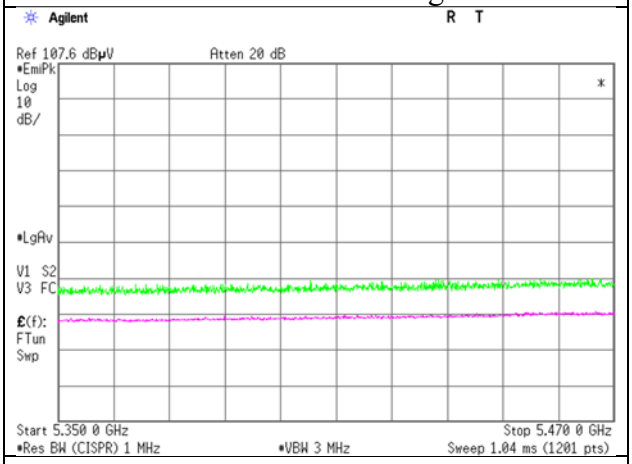
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (106-tone RU)

RU Index 53

Horizontal

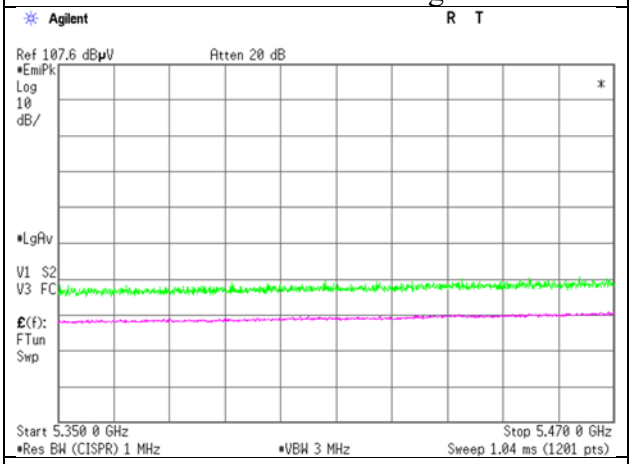
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	47.4	37.3	31.8	6.6	31.9	0.4	53.8	44.1	68.2	53.9	14.4	9.8	*1)
Hori.	5470.0	48.1	-	31.8	6.6	31.9	-	54.6	-	68.2	-	13.7	-	
Vert.	5460.0	48.0	38.4	31.8	6.6	31.9	0.4	54.4	45.1	68.2	53.9	13.8	8.8	*1)
Vert.	5470.0	49.9	-	31.8	6.6	31.9	-	56.3	-	68.2	-	11.9	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

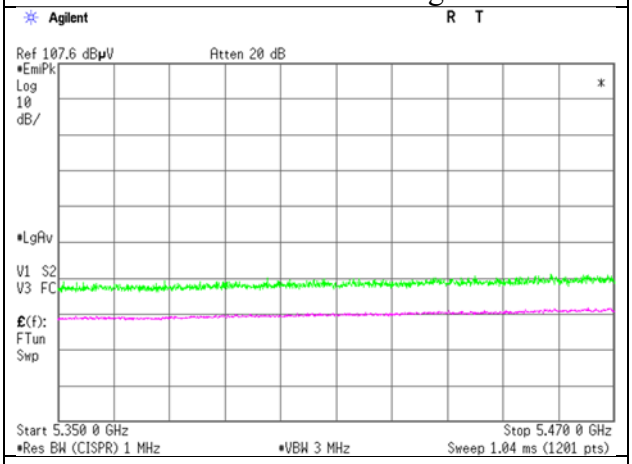
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (242-tone RU)

RU Index 61

Horizontal

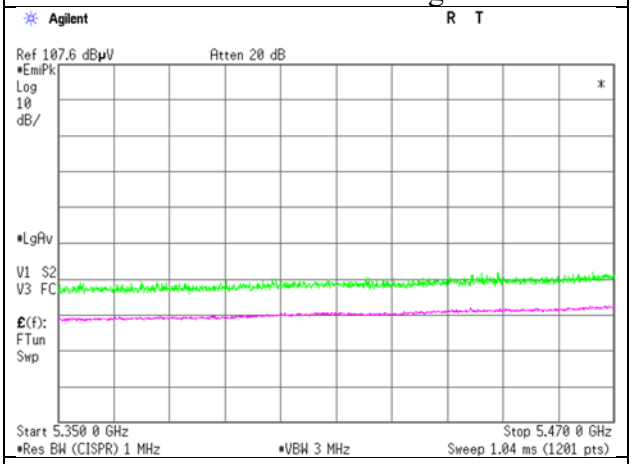
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (26-tone RU)

RU Index 8

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	42.2	-	31.9	6.7	32.0	-	48.8	-	68.2	-	19.4	-	
Vert.	5725.0	42.1	-	31.9	6.7	32.0	-	48.8	-	68.2	-	19.4	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

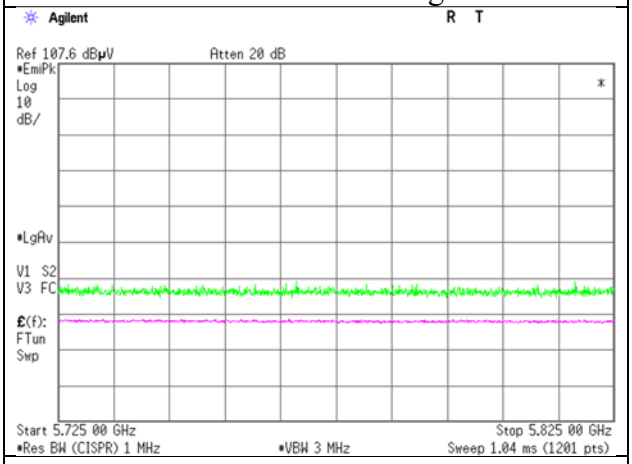
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (26-tone RU)

RU Index 8

Horizontal

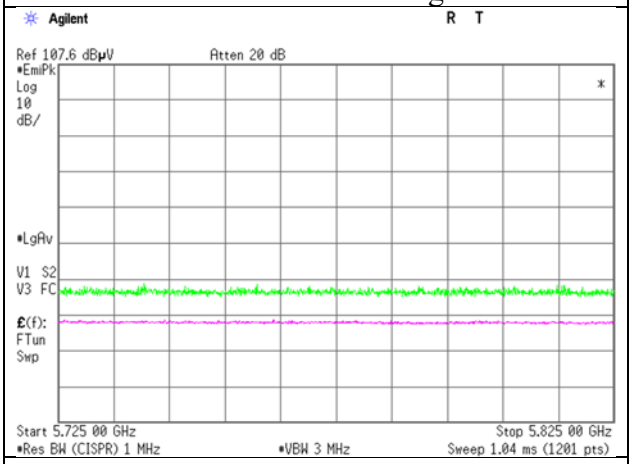
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (52-tone RU)

RU Index 40

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	44.8	-	31.9	6.7	32.0	-	51.5	-	68.2	-	16.7	-	
Vert.	5725.0	44.1	-	31.9	6.7	32.0	-	50.8	-	68.2	-	17.4	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

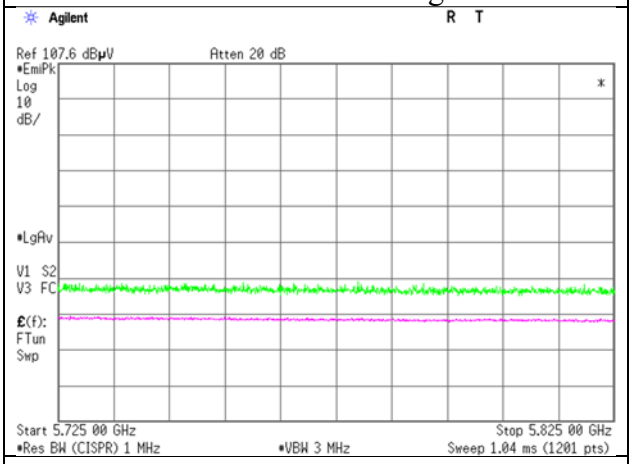
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (52-tone RU)

RU Index 40

Horizontal

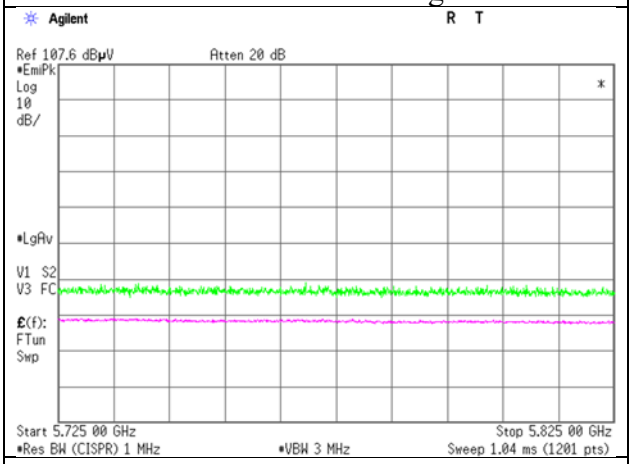
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (106-tone RU)

RU Index 54

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	46.7	-	31.9	6.7	32.0	-	53.4	-	68.2	-	14.8	-	
Vert.	5725.0	46.4	-	31.9	6.7	32.0	-	53.1	-	68.2	-	15.1	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

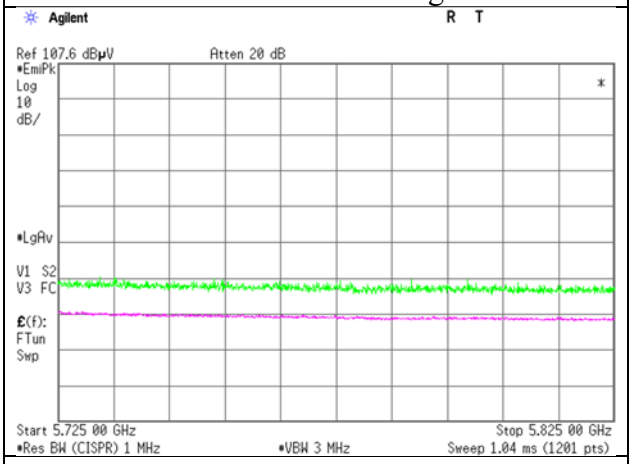
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (106-tone RU)

RU Index 54

Horizontal

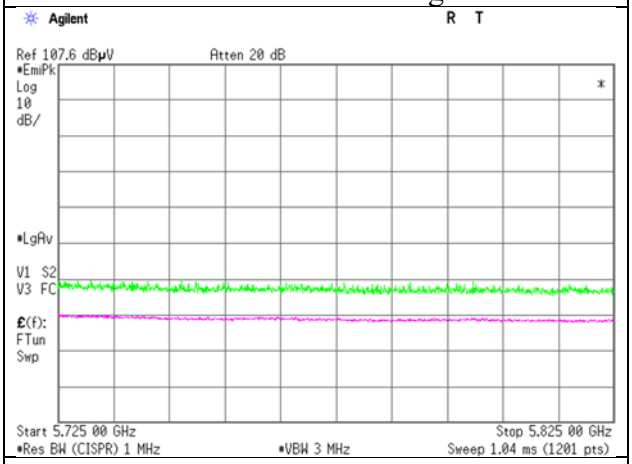
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	54.6	-	31.9	6.7	32.0	-	61.3	-	68.2	-	6.9	-	
Vert.	5725.0	53.9	-	31.9	6.7	32.0	-	60.6	-	68.2	-	7.6	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

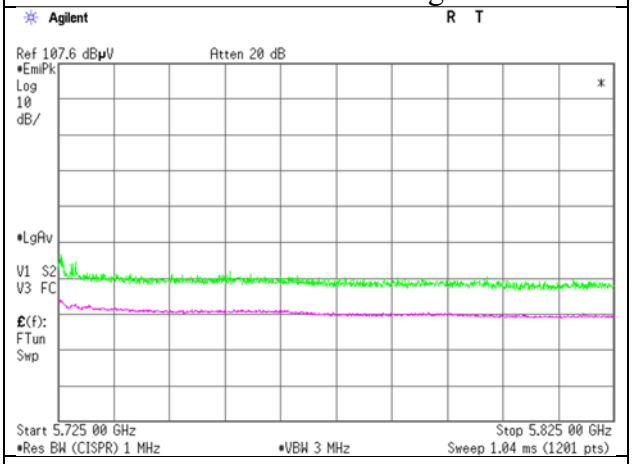
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (242-tone RU)

RU Index 61

Horizontal

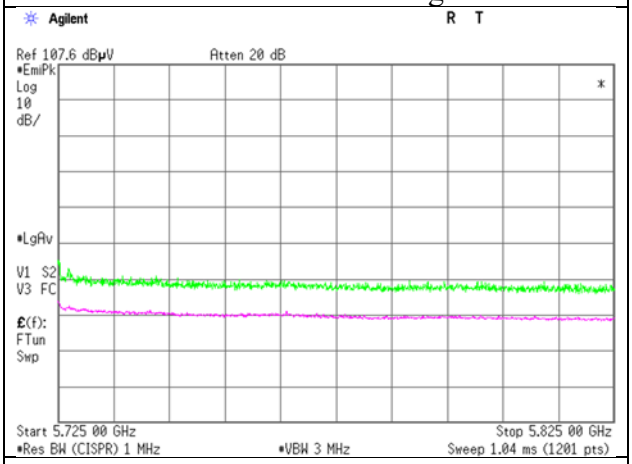
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (26-tone RU)

RU Index 0

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	41.7	-	31.8	6.7	32.0	-	48.1	-	68.2	-	20.1	-	
Hori.	5700.0	41.9	-	31.8	6.7	32.0	-	48.5	-	105.2	-	56.7	-	
Hori.	5720.0	42.5	-	31.9	6.7	32.0	-	49.2	-	110.8	-	61.6	-	
Hori.	5725.0	59.3	-	31.9	6.7	32.0	-	65.9	-	122.2	-	56.3	-	
Vert.	5650.0	41.7	-	31.8	6.7	32.0	-	48.2	-	68.2	-	20.0	-	
Vert.	5700.0	41.9	-	31.8	6.7	32.0	-	48.5	-	105.2	-	56.7	-	
Vert.	5720.0	43.4	-	31.9	6.7	32.0	-	50.0	-	110.8	-	60.8	-	
Vert.	5725.0	60.8	-	31.9	6.7	32.0	-	67.5	-	122.2	-	54.7	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

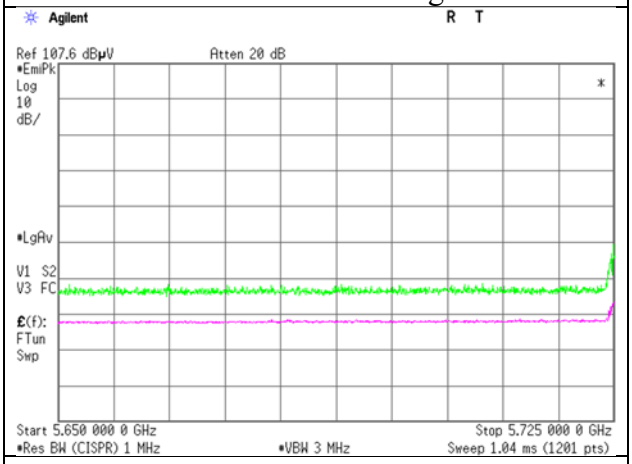
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (26-tone RU)

RU Index 0

Horizontal

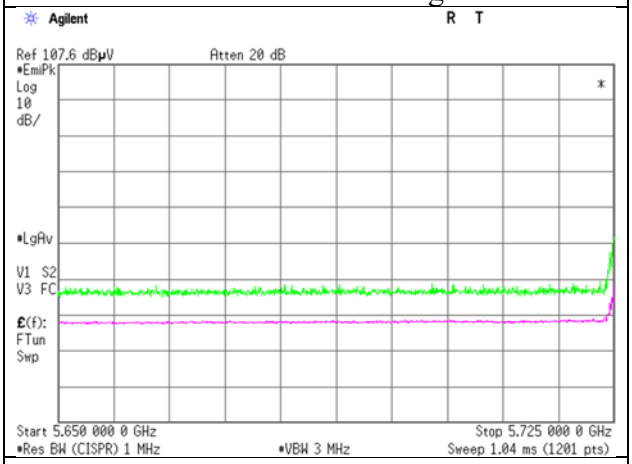
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (52-tone RU)

RU Index 37

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	41.8	-	31.8	6.7	32.0	-	48.3	-	68.2	-	19.9	-	
Hori.	5700.0	42.6	-	31.8	6.7	32.0	-	49.2	-	105.2	-	56.0	-	
Hori.	5720.0	44.5	-	31.9	6.7	32.0	-	51.1	-	110.8	-	59.7	-	
Hori.	5725.0	62.4	-	31.9	6.7	32.0	-	69.1	-	122.2	-	53.1	-	
Vert.	5650.0	42.2	-	31.8	6.7	32.0	-	48.6	-	68.2	-	19.6	-	
Vert.	5700.0	43.5	-	31.8	6.7	32.0	-	50.1	-	105.2	-	55.1	-	
Vert.	5720.0	44.7	-	31.9	6.7	32.0	-	51.4	-	110.8	-	59.5	-	
Vert.	5725.0	65.1	-	31.9	6.7	32.0	-	71.8	-	122.2	-	50.4	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

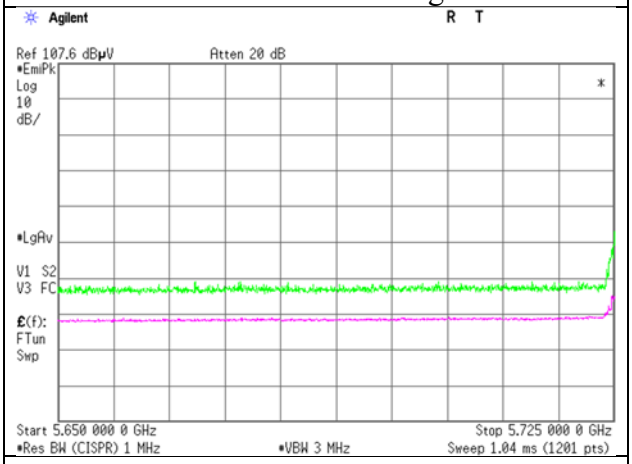
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (52-tone RU)

RU Index 37

Horizontal

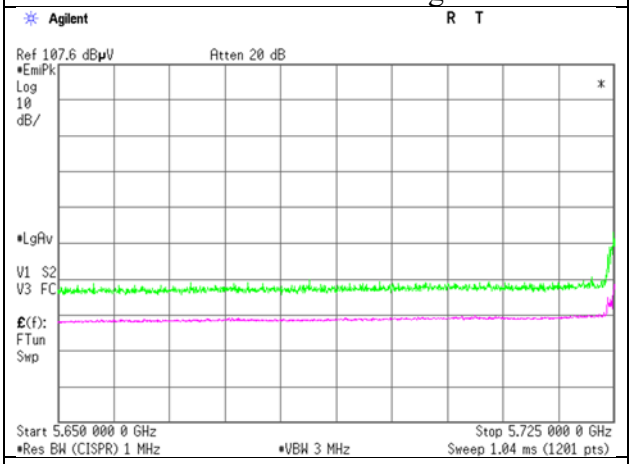
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (106-tone RU)

RU Index 53

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	42.7	-	31.8	6.7	32.0	-	49.2	-	68.2	-	19.0	-	
Hori.	5700.0	43.8	-	31.8	6.7	32.0	-	50.3	-	105.2	-	54.9	-	
Hori.	5720.0	45.0	-	31.9	6.7	32.0	-	51.7	-	110.8	-	59.1	-	
Hori.	5725.0	64.4	-	31.9	6.7	32.0	-	71.1	-	122.2	-	51.1	-	
Vert.	5650.0	42.4	-	31.8	6.7	32.0	-	48.8	-	68.2	-	19.4	-	
Vert.	5700.0	44.2	-	31.8	6.7	32.0	-	50.8	-	105.2	-	54.4	-	
Vert.	5720.0	45.7	-	31.9	6.7	32.0	-	52.3	-	110.8	-	58.5	-	
Vert.	5725.0	65.2	-	31.9	6.7	32.0	-	71.9	-	122.2	-	50.3	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

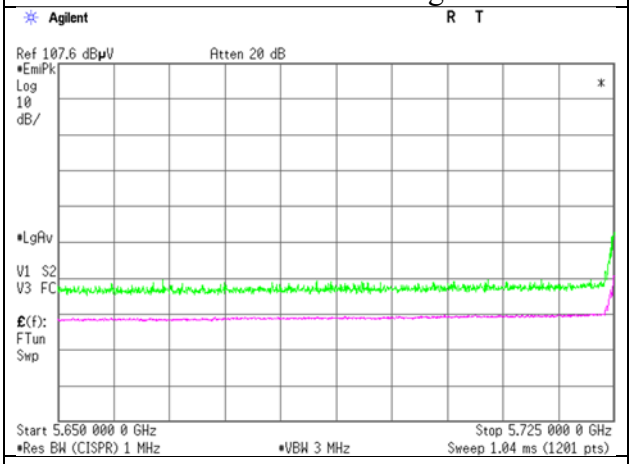
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (106-tone RU)

RU Index 53

Horizontal

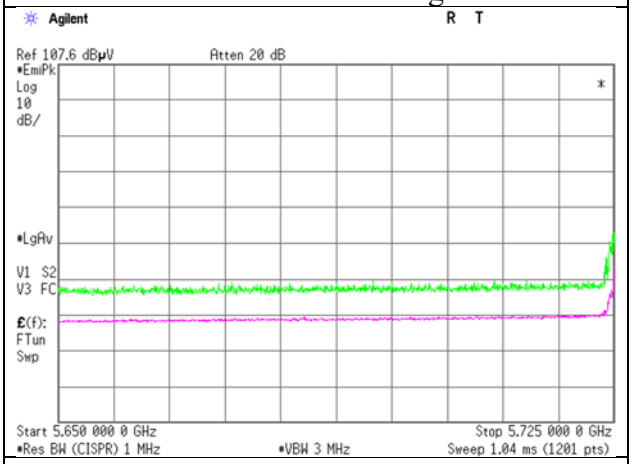
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	44.5	-	31.8	6.7	32.0	-	51.0	-	68.2	-	17.2	-	
Hori.	5700.0	46.2	-	31.8	6.7	32.0	-	52.8	-	105.2	-	52.5	-	
Hori.	5720.0	49.5	-	31.9	6.7	32.0	-	56.2	-	110.8	-	54.6	-	
Hori.	5725.0	66.8	-	31.9	6.7	32.0	-	73.4	-	122.2	-	48.8	-	
Vert.	5650.0	44.9	-	31.8	6.7	32.0	-	51.4	-	68.2	-	16.8	-	
Vert.	5700.0	46.1	-	31.8	6.7	32.0	-	52.7	-	105.2	-	52.5	-	
Vert.	5720.0	50.1	-	31.9	6.7	32.0	-	56.7	-	110.8	-	54.1	-	
Vert.	5725.0	65.3	-	31.9	6.7	32.0	-	72.0	-	122.2	-	50.2	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

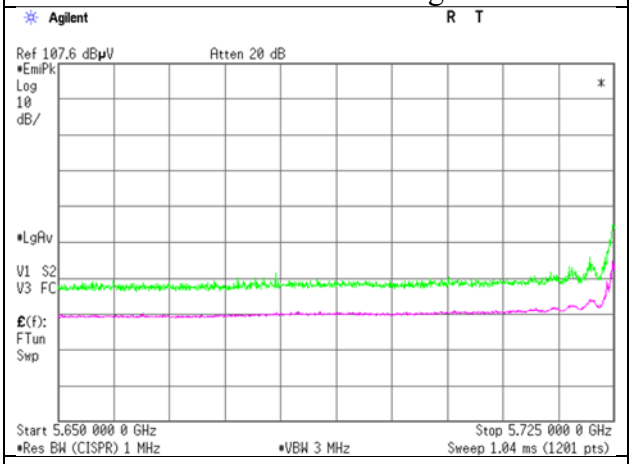
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (242-tone RU)

RU Index 61

Horizontal

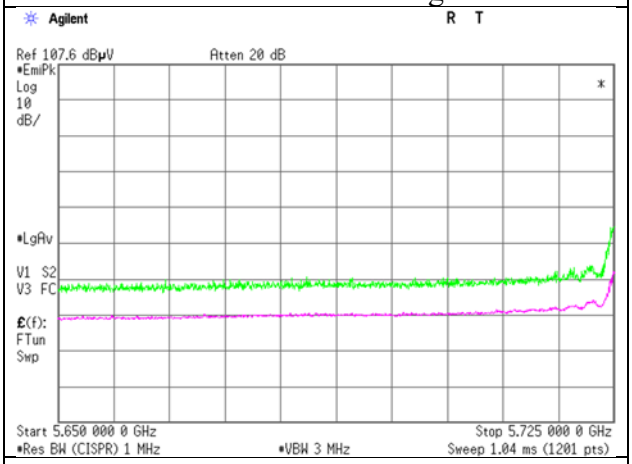
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (26-tone RU)

RU Index 8

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	44.4	-	32.2	6.8	32.0	-	51.4	-	122.2	-	70.8	-	
Hori.	5855.0	41.8	-	32.2	6.8	32.0	-	48.9	-	110.8	-	62.0	-	
Hori.	5875.0	41.3	-	32.3	6.8	32.0	-	48.3	-	105.2	-	56.9	-	
Hori.	5925.0	41.2	-	32.3	6.8	32.0	-	48.3	-	68.2	-	19.9	-	
Vert.	5850.0	42.6	-	32.2	6.8	32.0	-	49.6	-	122.2	-	72.6	-	
Vert.	5855.0	41.5	-	32.2	6.8	32.0	-	48.5	-	110.8	-	62.3	-	
Vert.	5875.0	41.3	-	32.3	6.8	32.0	-	48.3	-	105.2	-	56.9	-	
Vert.	5925.0	40.1	-	32.3	6.8	32.0	-	47.3	-	68.2	-	20.9	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

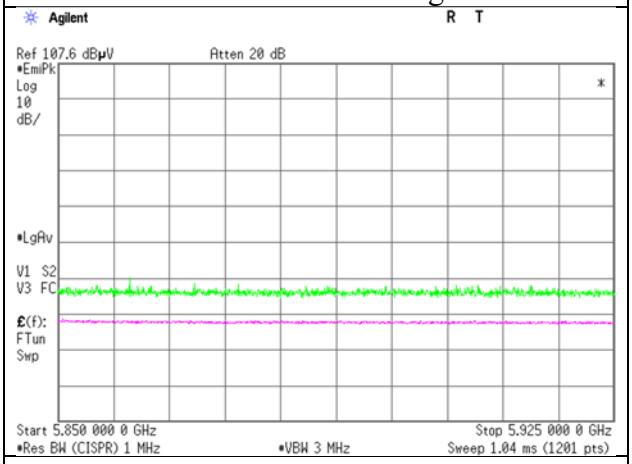
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (26-tone RU)

RU Index 8

Horizontal

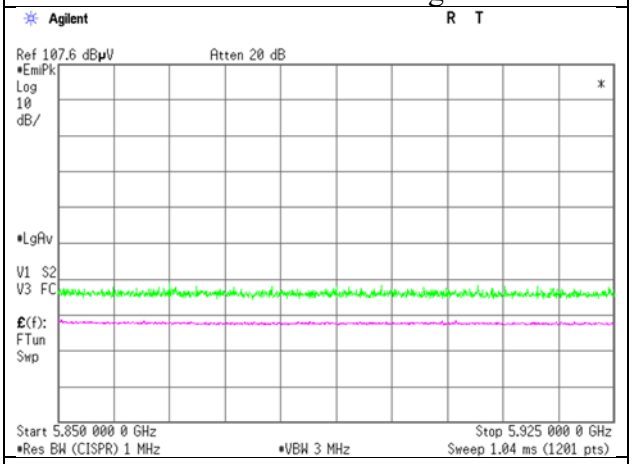
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (52-tone RU)

RU Index 40

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	44.5	-	32.2	6.8	32.0	-	51.5	-	122.2	-	70.7	-	
Hori.	5855.0	42.7	-	32.2	6.8	32.0	-	49.7	-	110.8	-	61.1	-	
Hori.	5875.0	42.3	-	32.3	6.8	32.0	-	49.4	-	105.2	-	55.9	-	
Hori.	5925.0	41.9	-	32.3	6.8	32.0	-	49.0	-	68.2	-	19.2	-	
Vert.	5850.0	43.7	-	32.2	6.8	32.0	-	50.7	-	122.2	-	71.5	-	
Vert.	5855.0	42.6	-	32.2	6.8	32.0	-	49.6	-	110.8	-	61.2	-	
Vert.	5875.0	42.4	-	32.3	6.8	32.0	-	49.5	-	105.2	-	55.7	-	
Vert.	5925.0	41.3	-	32.3	6.8	32.0	-	48.4	-	68.2	-	19.8	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

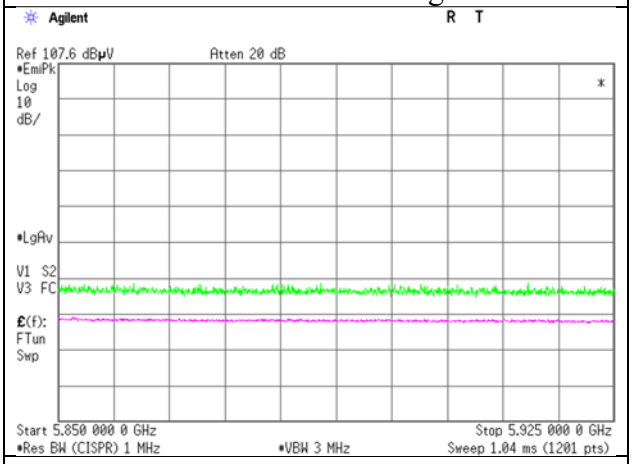
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (52-tone RU)

RU Index 40

Horizontal

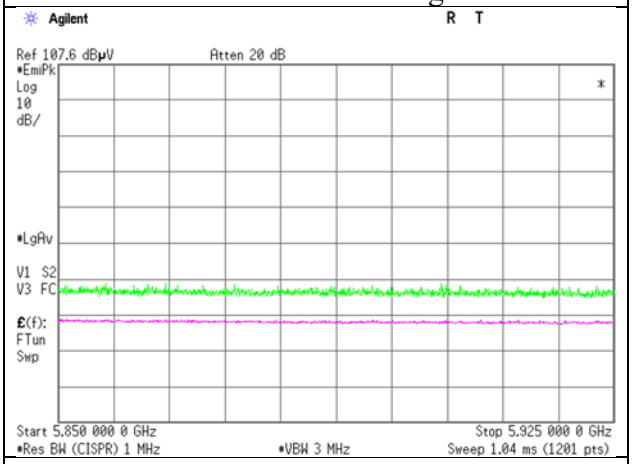
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (106-tone RU)

RU Index 54

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	45.6	-	32.2	6.8	32.0	-	52.6	-	122.2	-	69.6	-	
Hori.	5855.0	44.3	-	32.2	6.8	32.0	-	51.3	-	110.8	-	59.5	-	
Hori.	5875.0	43.0	-	32.3	6.8	32.0	-	50.1	-	105.2	-	55.1	-	
Hori.	5925.0	43.0	-	32.3	6.8	32.0	-	50.1	-	68.2	-	18.1	-	
Vert.	5850.0	46.8	-	32.2	6.8	32.0	-	53.8	-	122.2	-	68.4	-	
Vert.	5855.0	45.7	-	32.2	6.8	32.0	-	52.7	-	110.8	-	58.1	-	
Vert.	5875.0	44.0	-	32.3	6.8	32.0	-	51.0	-	105.2	-	54.2	-	
Vert.	5925.0	42.9	-	32.3	6.8	32.0	-	50.1	-	68.2	-	18.1	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

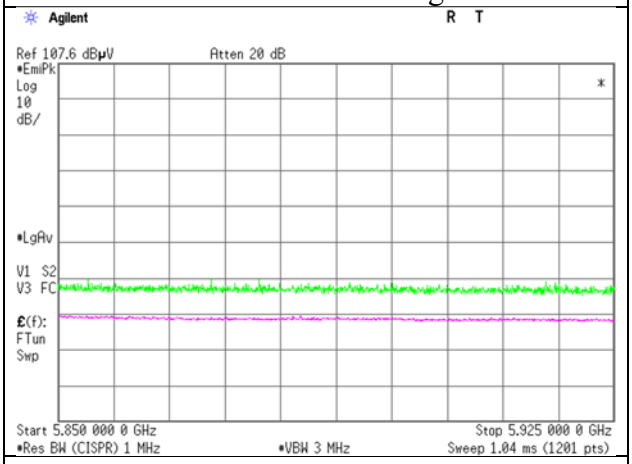
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (106-tone RU)

RU Index 54

Horizontal

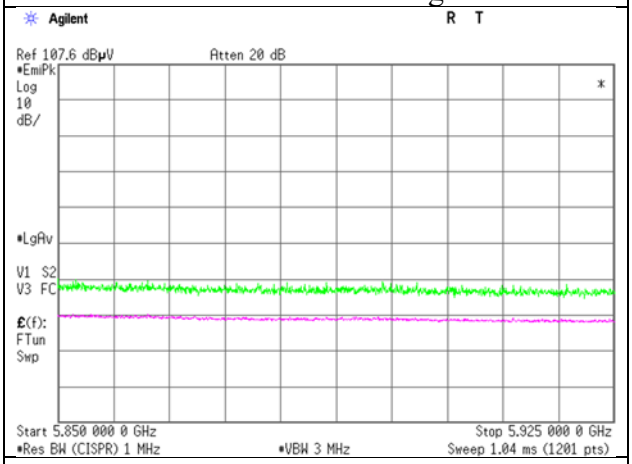
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	50.2	-	32.2	6.8	32.0	-	57.2	-	122.2	-	65.0	-	
Hori.	5855.0	47.9	-	32.2	6.8	32.0	-	54.9	-	110.8	-	55.9	-	
Hori.	5875.0	46.6	-	32.3	6.8	32.0	-	53.6	-	105.2	-	51.6	-	
Hori.	5925.0	44.9	-	32.3	6.8	32.0	-	52.1	-	68.2	-	16.2	-	
Vert.	5850.0	51.3	-	32.2	6.8	32.0	-	58.3	-	122.2	-	63.9	-	
Vert.	5855.0	48.2	-	32.2	6.8	32.0	-	55.2	-	110.8	-	55.6	-	
Vert.	5875.0	45.5	-	32.3	6.8	32.0	-	52.5	-	105.2	-	52.7	-	
Vert.	5925.0	44.2	-	32.3	6.8	32.0	-	51.4	-	68.2	-	16.8	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

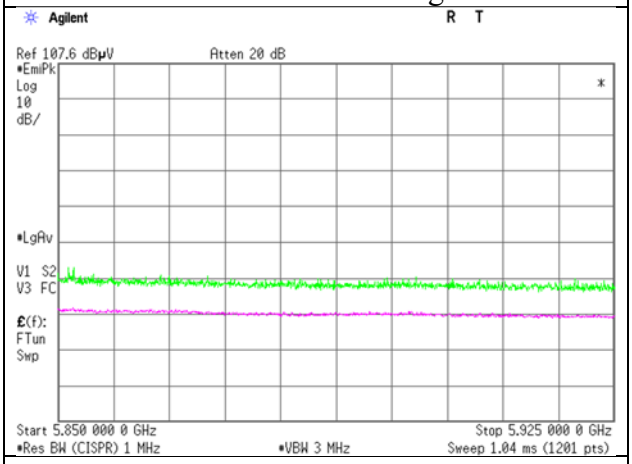
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (242-tone RU)

RU Index 61

Horizontal

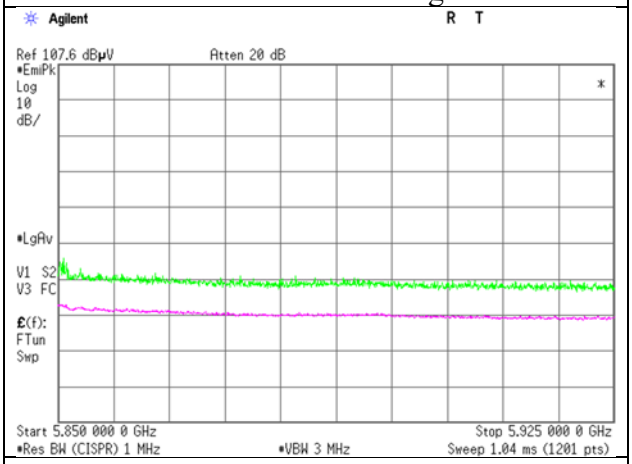
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (26-tone RU)

RU Index 0

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	40.3	31.2	31.9	6.4	31.9	0.2	46.7	37.8	73.9	53.9	27.2	16.1	*1)
Vert.	5150.0	40.9	31.2	31.9	6.4	31.9	0.2	47.2	37.8	73.9	53.9	26.7	16.1	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

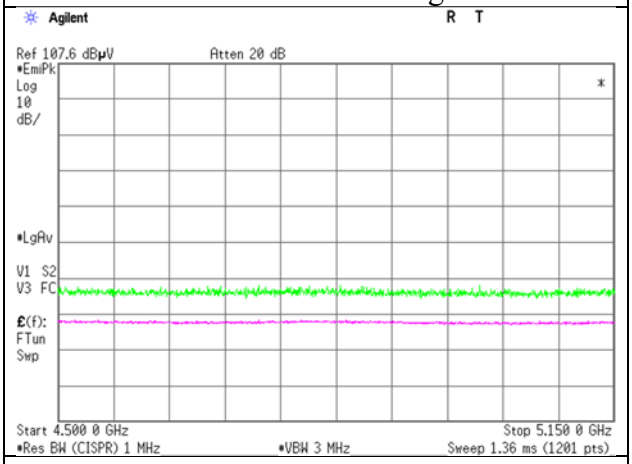
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (26-tone RU)

RU Index 0

Horizontal

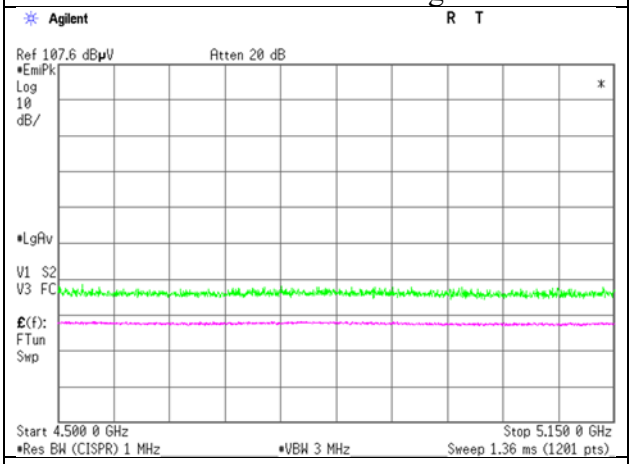
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (52-tone RU)

RU Index 37

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	41.3	31.8	31.9	6.4	31.9	0.3	47.6	38.4	73.9	53.9	26.3	15.5	*1)
Vert.	5150.0	41.3	31.3	31.9	6.4	31.9	0.3	47.7	38.0	73.9	53.9	26.2	15.9	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

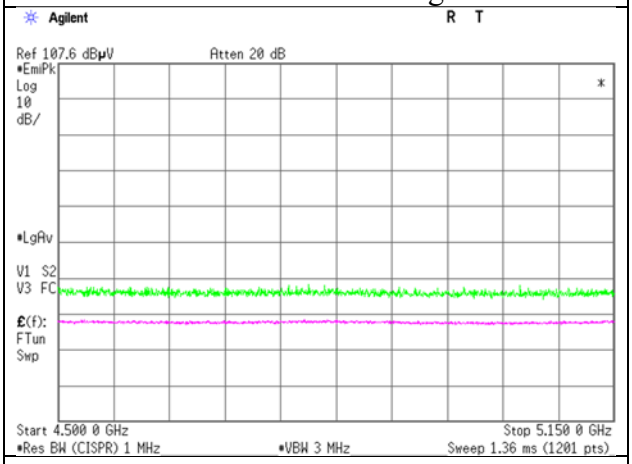
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (52-tone RU)

RU Index 37

Horizontal

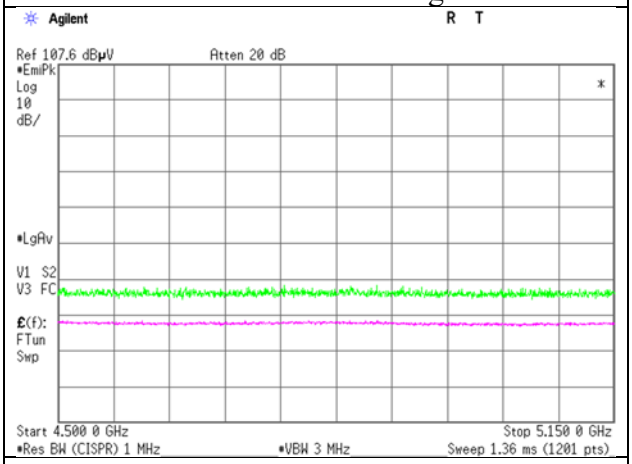
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (106-tone RU)

RU Index 53

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	43.6	34.0	31.9	6.4	31.9	0.3	50.0	40.6	73.9	53.9	24.0	13.3	*1)
Vert.	5150.0	43.3	33.3	31.9	6.4	31.9	0.3	49.7	39.9	73.9	53.9	24.2	14.0	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

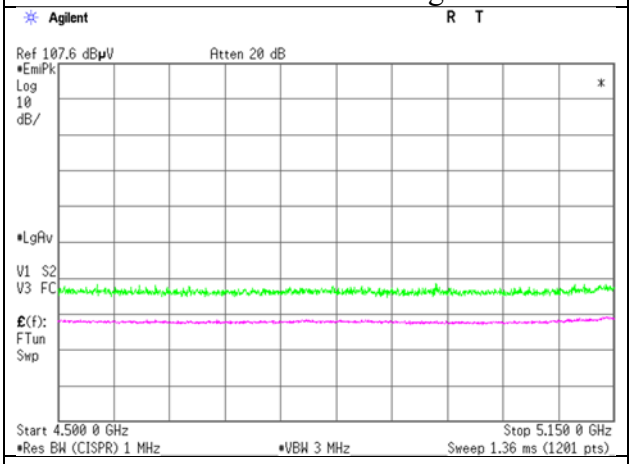
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (106-tone RU)

RU Index 53

Horizontal

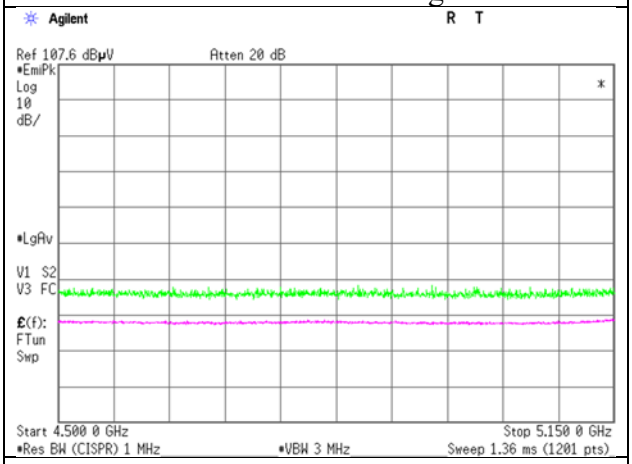
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	46.5	36.1	31.9	6.4	31.9	0.4	52.9	42.9	73.9	53.9	21.0	11.1	*1)
Vert.	5150.0	45.1	35.0	31.9	6.4	31.9	0.4	51.5	41.7	73.9	53.9	22.4	12.2	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

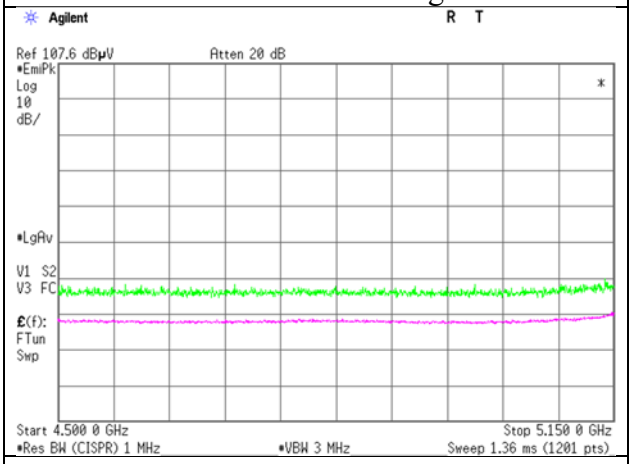
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (242-tone RU)

RU Index 61

Horizontal

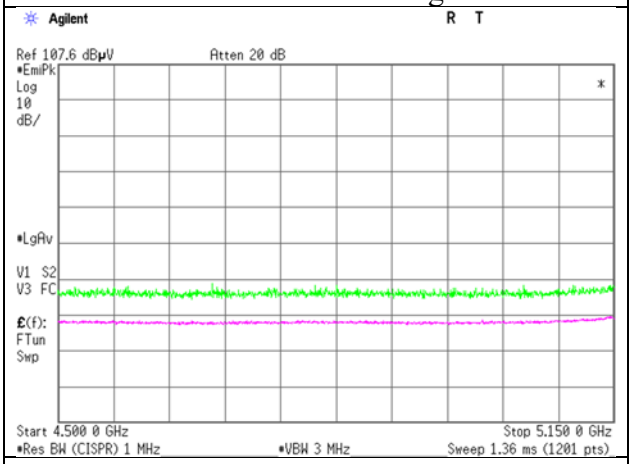
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (484-tone RU)

RU Index 65

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	47.9	37.3	31.9	6.4	31.9	0.4	54.3	44.0	73.9	53.9	19.6	9.9	*1)
Vert.	5150.0	46.2	35.2	31.9	6.4	31.9	0.4	52.5	42.0	73.9	53.9	21.4	11.9	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

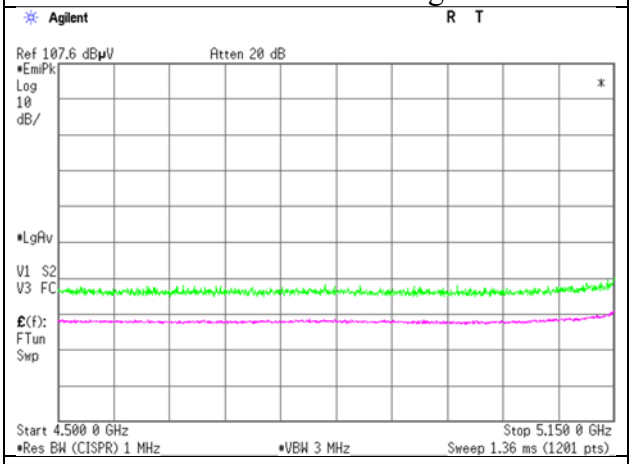
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (484-tone RU)

RU Index 65

Horizontal

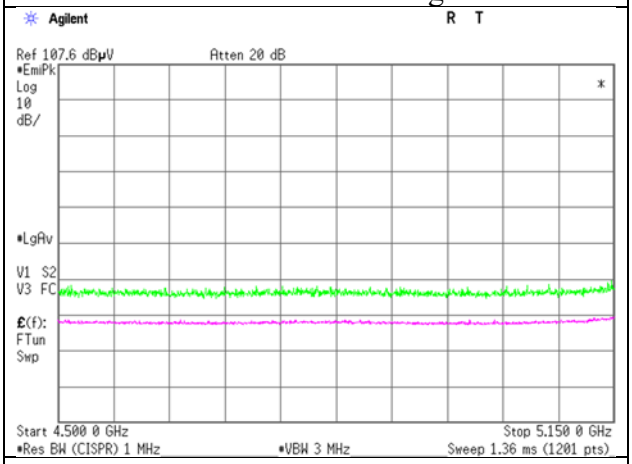
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (26-tone RU)

RU Index 17

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	41.9	32.1	31.6	6.5	31.9	0.2	48.1	38.5	73.9	53.9	25.8	15.4	*1)
Vert.	5350.0	41.1	31.4	31.6	6.5	31.9	0.2	47.2	37.8	73.9	53.9	26.7	16.1	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

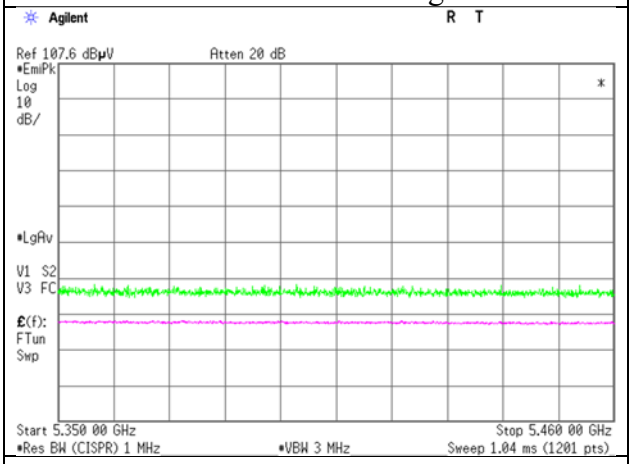
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (26-tone RU)

RU Index 17

Horizontal

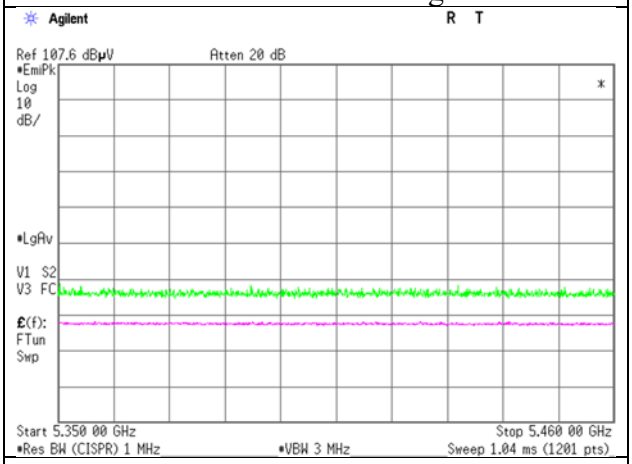
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (52-tone RU)

RU Index 44

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	45.2	34.3	31.6	6.5	31.9	0.3	51.4	40.8	73.9	53.9	22.5	13.1	*1)
Vert.	5350.0	43.3	33.2	31.6	6.5	31.9	0.3	49.5	39.6	73.9	53.9	24.4	14.3	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

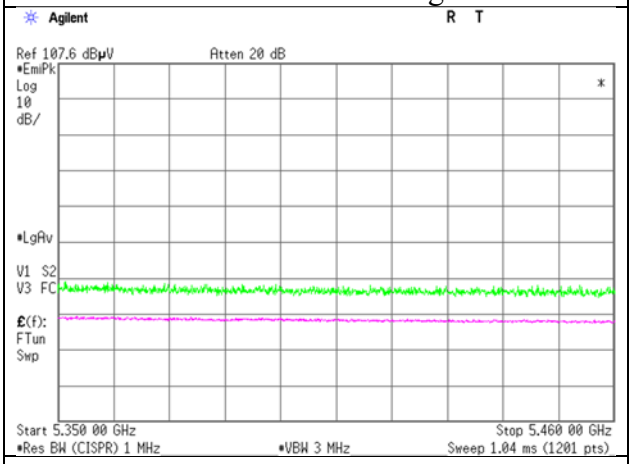
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (52-tone RU)

RU Index 44

Horizontal

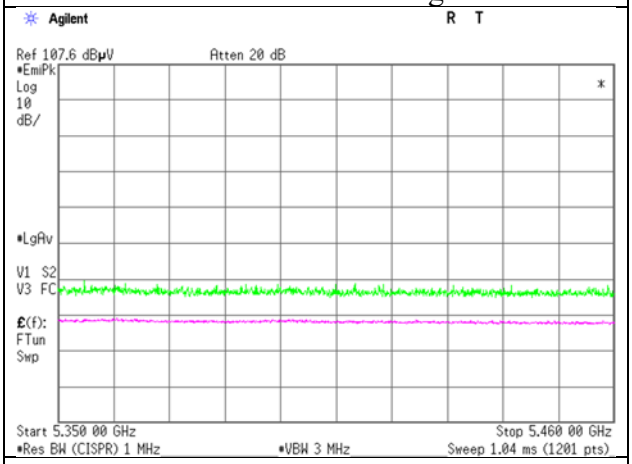
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (106-tone RU)

RU Index 56

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	47.3	36.8	31.6	6.5	31.9	0.3	53.5	43.3	73.9	53.9	20.4	10.6	*1)
Vert.	5350.0	45.6	35.4	31.6	6.5	31.9	0.3	51.8	41.9	73.9	53.9	22.1	12.0	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

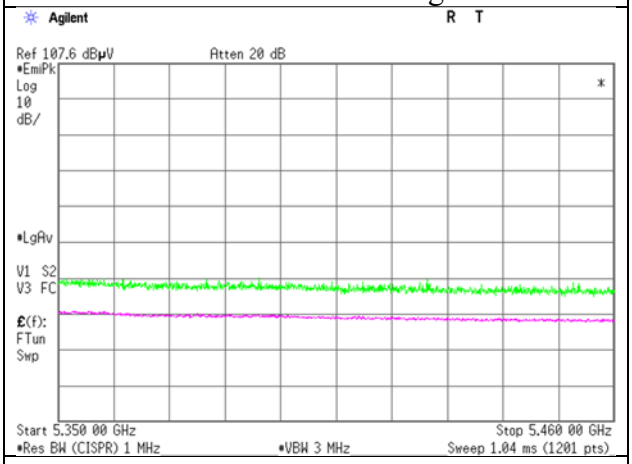
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (106-tone RU)

RU Index 56

Horizontal

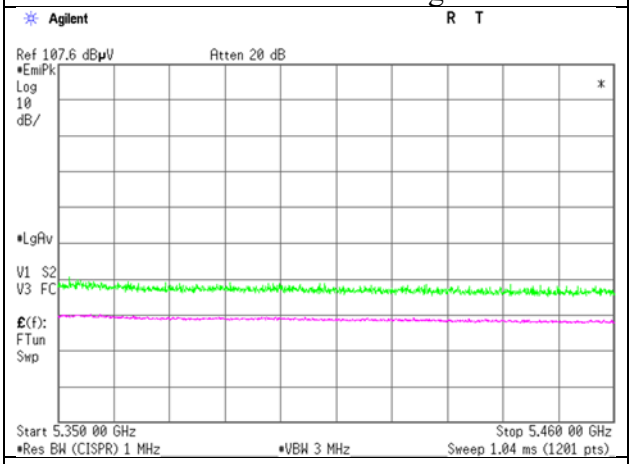
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (242-tone RU)

RU Index 62

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	49.7	38.9	31.6	6.5	31.9	0.4	55.9	45.5	73.9	53.9	18.0	8.4	*1)
Vert.	5350.0	47.9	36.9	31.6	6.5	31.9	0.4	54.1	43.4	73.9	53.9	19.8	10.5	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

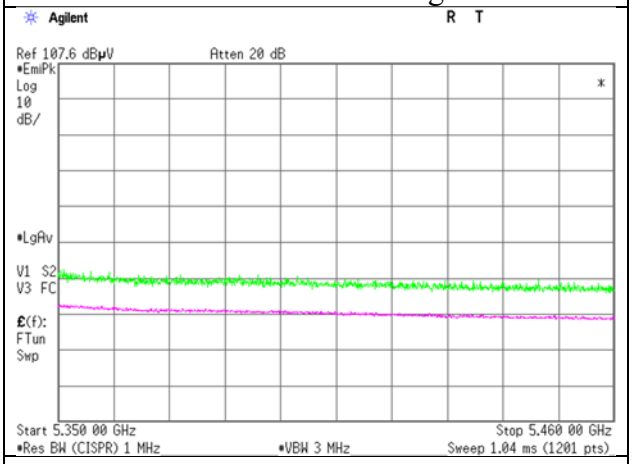
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (242-tone RU)

RU Index 62

Horizontal

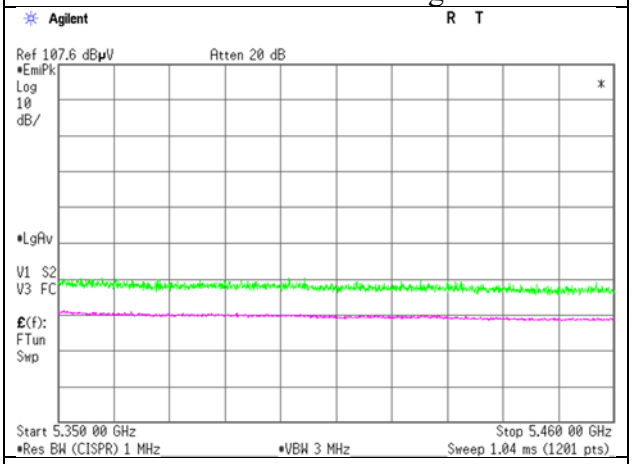
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (484-tone RU)

RU Index 65

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5350.0	51.5	40.3	31.6	6.5	31.9	0.4	57.7	46.9	73.9	53.9	16.2	7.0	*1)
Vert.	5350.0	49.7	38.4	31.6	6.5	31.9	0.4	55.8	44.9	73.9	53.9	18.1	9.0	*1)

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

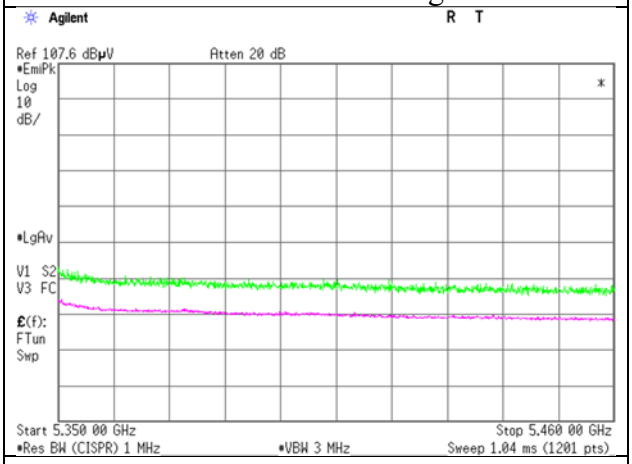
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 8, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (484-tone RU)

RU Index 65

Horizontal

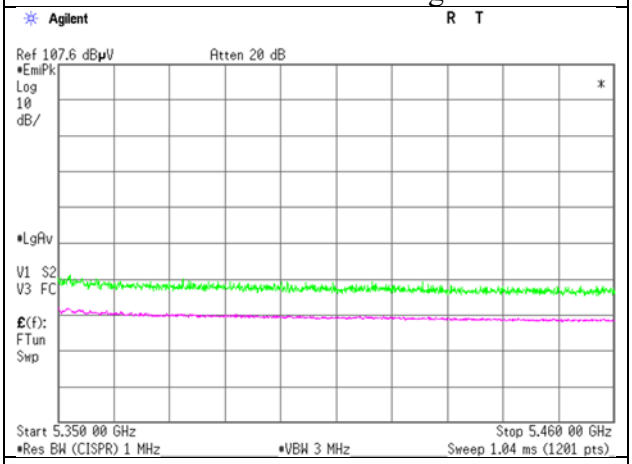
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (26-tone RU)

RU Index 0

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	41.6	31.6	31.8	6.6	31.9	0.2	48.0	38.3	68.2	53.9	20.2	15.6	*1)
Hori.	5470.0	41.9	-	31.8	6.6	31.9	-	48.3	-	68.2	-	19.9	-	
Vert.	5460.0	41.8	31.8	31.8	6.6	31.9	0.2	48.2	38.5	68.2	53.9	20.0	15.5	*1)
Vert.	5470.0	42.1	-	31.8	6.6	31.9	-	48.5	-	68.2	-	19.7	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

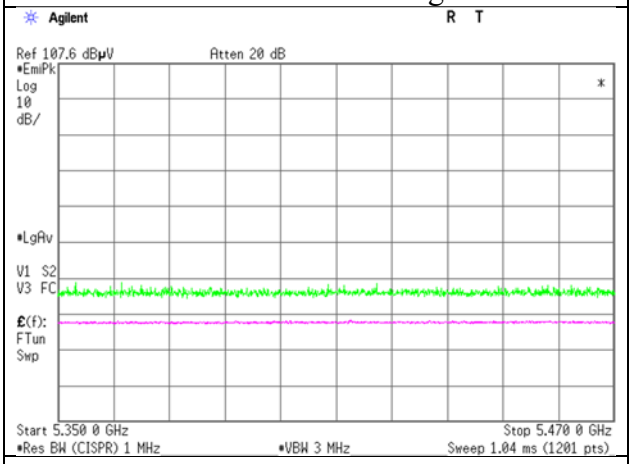
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (26-tone RU)

RU Index 0

Horizontal

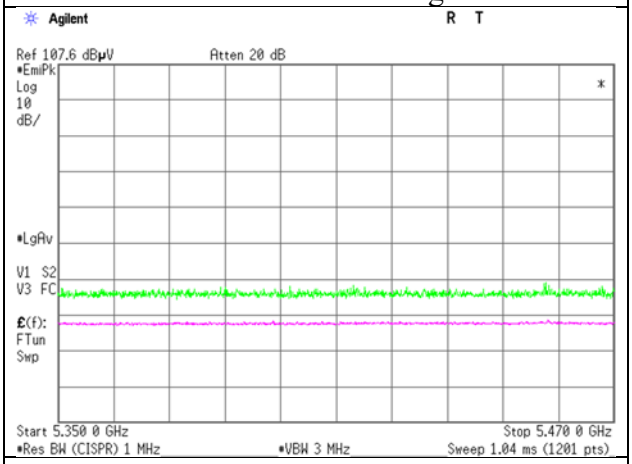
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (52-tone RU)

RU Index 37

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	43.9	33.9	31.8	6.6	31.9	0.3	50.3	40.6	68.2	53.9	17.9	13.3	*1)
Hori.	5470.0	44.0	-	31.8	6.6	31.9	-	50.4	-	68.2	-	17.8	-	
Vert.	5460.0	43.9	34.6	31.8	6.6	31.9	0.3	50.3	41.3	68.2	53.9	17.9	12.6	*1)
Vert.	5470.0	44.1	-	31.8	6.6	31.9	-	50.5	-	68.2	-	17.7	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

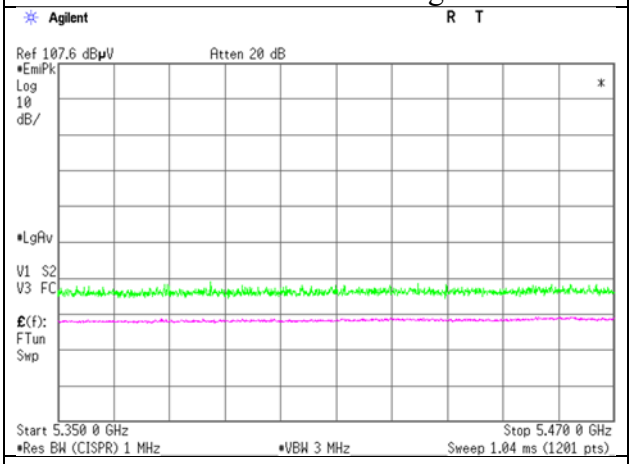
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (52-tone RU)

RU Index 37

Horizontal

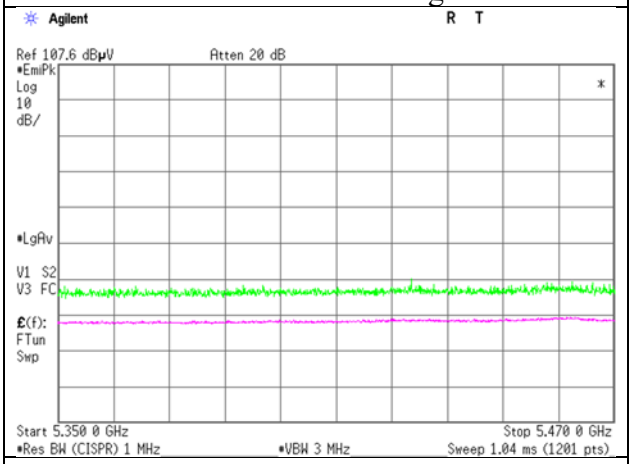
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (106-tone RU)

RU Index 53

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	45.0	35.4	31.8	6.6	31.9	0.3	51.4	42.1	68.2	53.9	16.8	11.8	*1)
Hori.	5470.0	45.3	-	31.8	6.6	31.9	-	51.8	-	68.2	-	16.5	-	
Vert.	5460.0	45.1	34.9	31.8	6.6	31.9	0.3	51.5	41.6	68.2	53.9	16.7	12.3	*1)
Vert.	5470.0	45.2	-	31.8	6.6	31.9	-	51.7	-	68.2	-	16.6	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

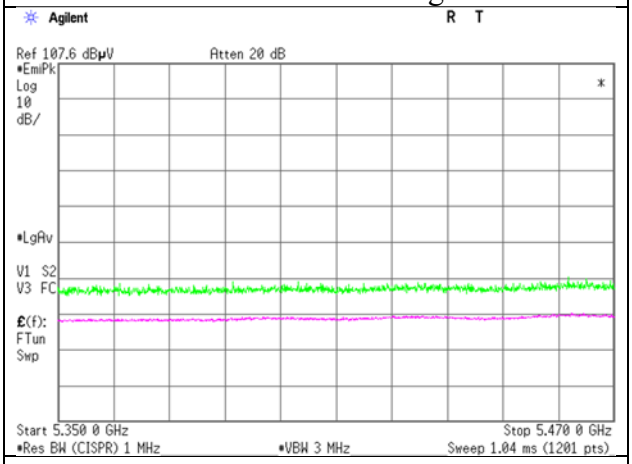
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (106-tone RU)

RU Index 53

Horizontal

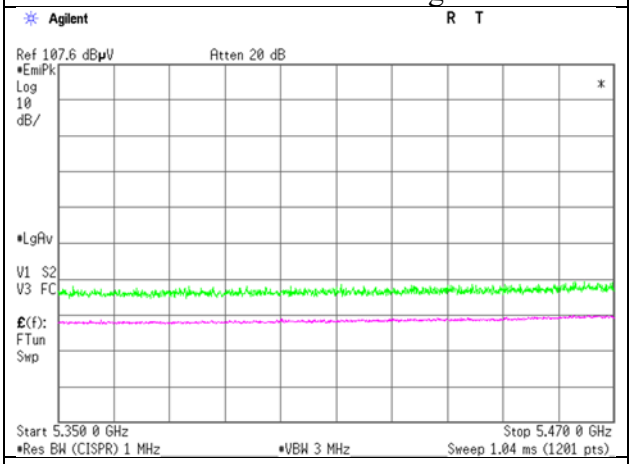
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	47.6	37.9	31.8	6.6	31.9	0.4	54.1	44.6	68.2	53.9	14.2	9.3	*1)
Hori.	5470.0	48.3	-	31.8	6.6	31.9	-	54.7	-	68.2	-	13.5	-	
Vert.	5460.0	47.7	37.8	31.8	6.6	31.9	0.4	54.1	44.6	68.2	53.9	14.1	9.3	*1)
Vert.	5470.0	48.7	-	31.8	6.6	31.9	-	55.1	-	68.2	-	13.1	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

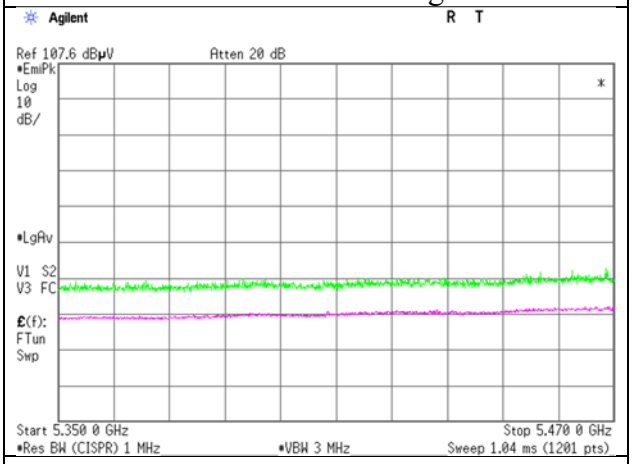
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (242-tone RU)

RU Index 61

Horizontal

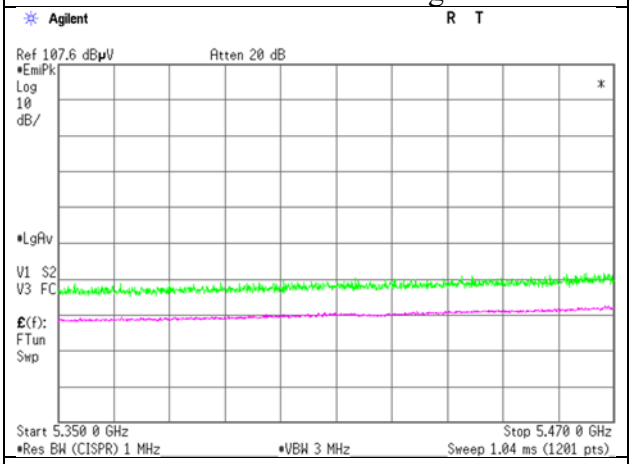
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (484-tone RU)

RU Index 65

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	49.6	38.4	31.8	6.6	31.9	0.4	56.0	45.2	68.2	53.9	12.2	8.7	*1)
Hori.	5470.0	52.5	-	31.8	6.6	31.9	-	58.9	-	68.2	-	9.3	-	
Vert.	5460.0	48.7	38.3	31.8	6.6	31.9	0.4	55.1	45.1	68.2	53.9	13.1	8.8	*1)
Vert.	5470.0	52.6	-	31.8	6.6	31.9	-	59.0	-	68.2	-	9.2	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

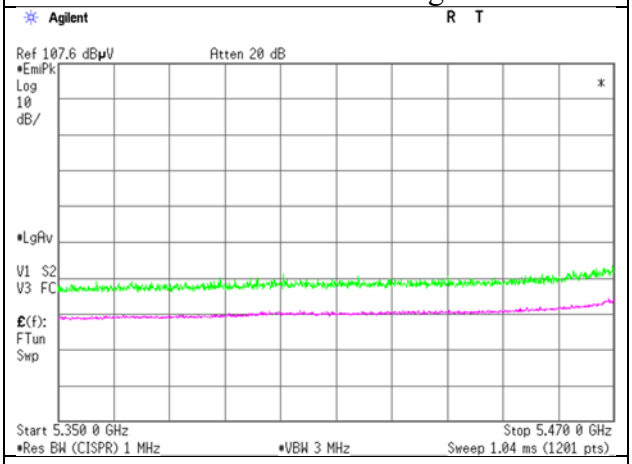
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (484-tone RU)

RU Index 65

Horizontal

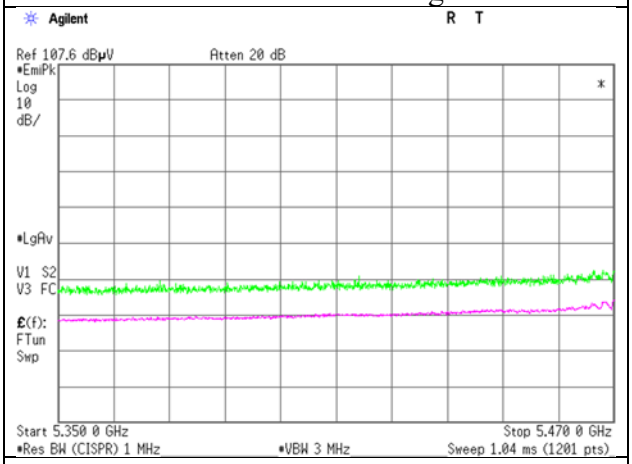
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (26-tone RU)

RU Index 17

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	42.1	-	31.9	6.7	32.0	-	48.7	-	68.2	-	19.5	-	
Vert.	5725.0	42.6	-	31.9	6.7	32.0	-	49.3	-	68.2	-	18.9	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB

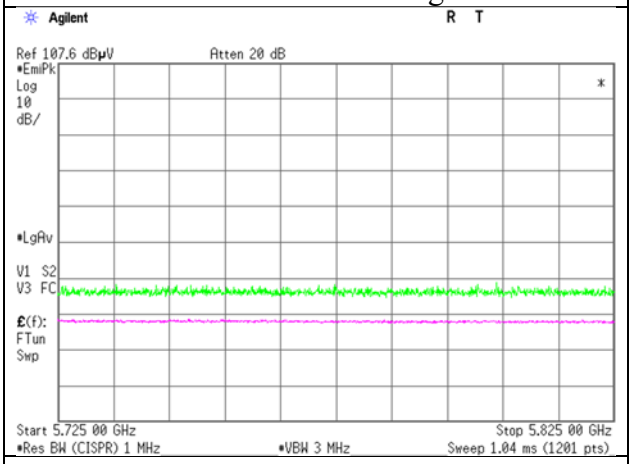
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (26-tone RU)

RU Index 17

Horizontal

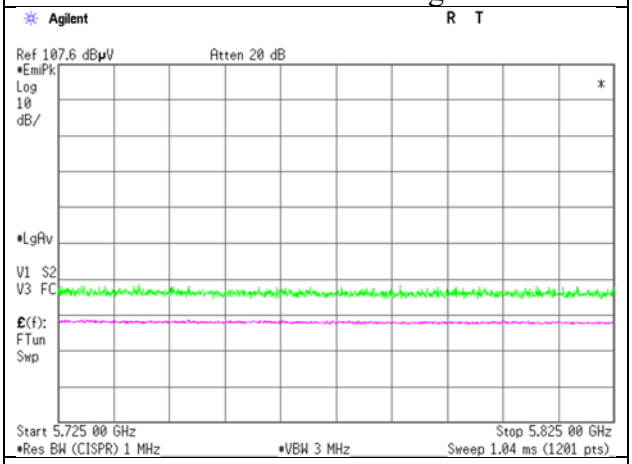
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	January 10, 2023
Temperature / Humidity	20 deg. C / 31 % RH
Engineer	Sayaka Hara
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (52-tone RU)

RU Index 44

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	43.8	-	31.9	6.7	32.0	-	50.5	-	68.2	-	17.7	-	
Vert.	5725.0	44.4	-	31.9	6.7	32.0	-	51.0	-	68.2	-	17.2	-	

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: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB