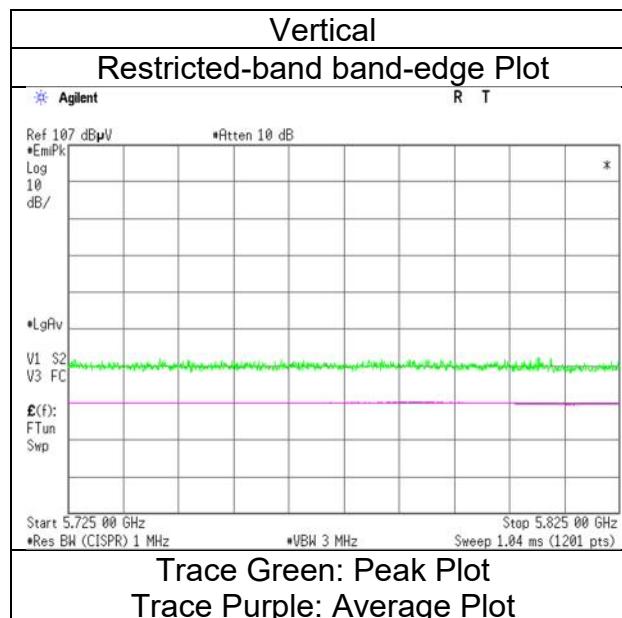
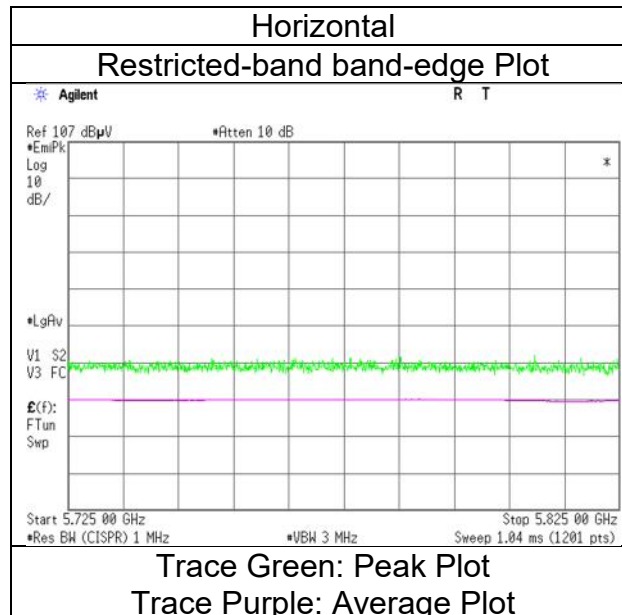


Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Shiro Kobayashi
Mode	Tx 11n-40, 5670 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 30 %RH
Engineer Shiro Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5755 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.72	32.44	17.50	43.44	2.49	57.71	-37.52	-27.0	10.5	145	46	-
Hori.	5700.000	PK	49.22	32.56	17.52	43.43	2.49	58.36	-36.87	10.0	46.8	145	46	-
Hori.	5720.000	PK	49.37	32.61	17.53	43.42	2.49	58.58	-36.65	15.6	52.2	145	46	-
Hori.	5725.000	PK	49.08	32.63	17.53	43.42	2.49	58.31	-36.92	27.0	63.9	145	46	-
Vert.	5650.000	PK	48.79	32.44	17.50	43.44	2.49	57.78	-37.45	-27.0	10.4	217	234	-
Vert.	5700.000	PK	48.43	32.56	17.52	43.43	2.49	57.57	-37.66	10.0	47.6	217	234	-
Vert.	5720.000	PK	48.60	32.61	17.53	43.42	2.49	57.81	-37.42	15.6	53.0	217	234	-
Vert.	5725.000	PK	48.93	32.63	17.53	43.42	2.49	58.16	-37.07	27.0	64.0	217	234	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

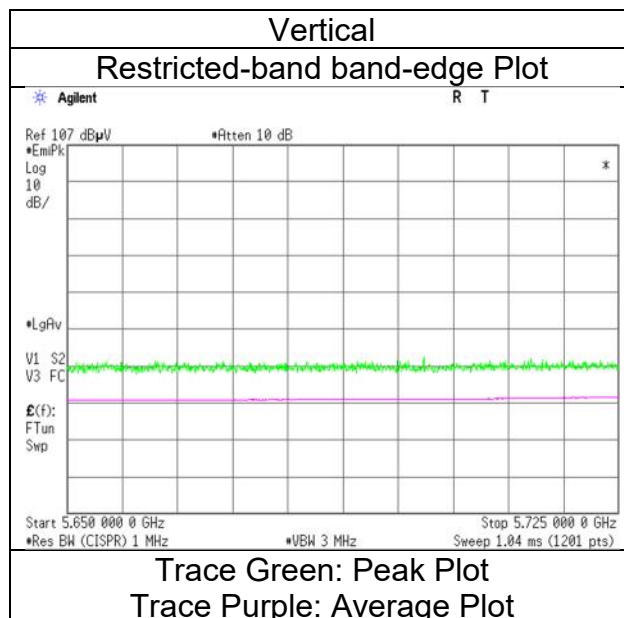
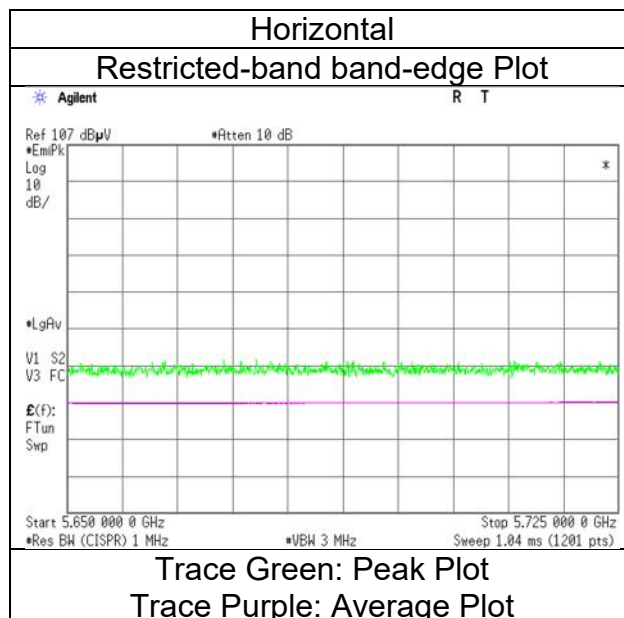
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 30 %RH
Shiro Kobayashi
Tx 11n-40, 5755 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 30 %RH
Engineer Shiro Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5795 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.59	32.94	17.61	43.39	2.49	59.24	-35.99	27.0	62.9	113	46	-
Hori.	5855.000	PK	49.35	32.95	17.61	43.39	2.49	59.01	-36.22	15.6	51.8	113	46	-
Hori.	5875.000	PK	49.92	32.98	17.64	43.39	2.49	59.64	-35.59	10.0	45.5	113	46	-
Hori.	5925.000	PK	49.30	33.06	17.66	43.38	2.49	59.13	-36.10	-27.0	9.1	113	46	-
Vert.	5850.000	PK	48.23	32.94	17.61	43.39	2.49	57.88	-37.35	27.0	64.3	198	253	-
Vert.	5855.000	PK	49.47	32.95	17.61	43.39	2.49	59.13	-36.10	15.6	51.7	198	253	-
Vert.	5875.000	PK	48.80	32.98	17.64	43.39	2.49	58.52	-36.71	10.0	46.7	198	253	-
Vert.	5925.000	PK	48.44	33.06	17.66	43.38	2.49	58.27	-36.96	-27.0	9.9	198	253	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

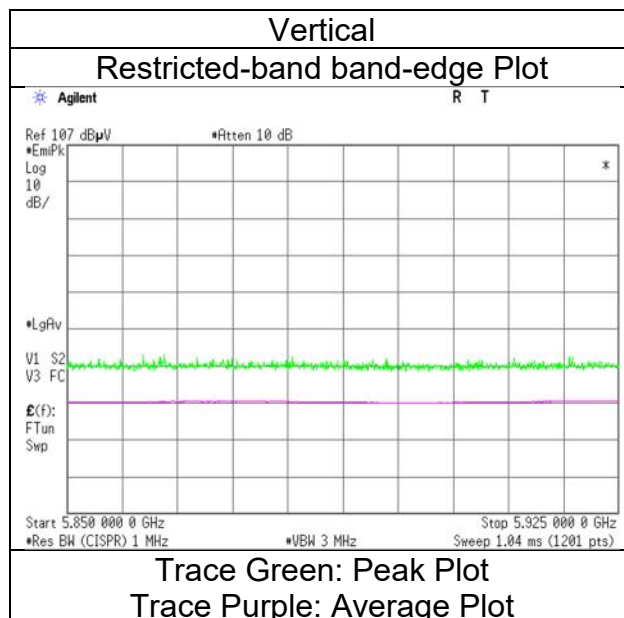
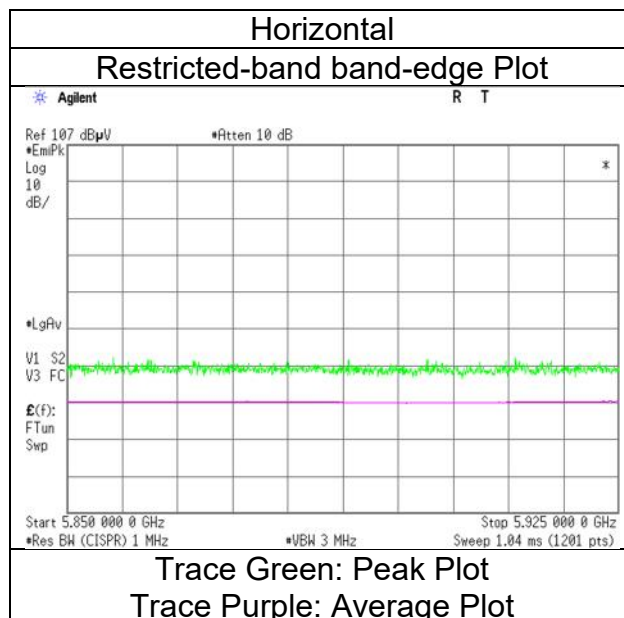
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Shiro Kobayashi
Mode	Tx 11n-40, 5795 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5190 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.97	32.16	17.18	43.07	2.49	57.73	73.9	16.1	276	46	-
Hori.	5150.000	AV	36.41	32.16	17.18	43.07	2.49	45.17	53.9	8.7	276	46	VBW:10 Hz
Vert.	5150.000	PK	49.08	32.16	17.18	43.07	2.49	57.84	73.9	16.0	162	122	-
Vert.	5150.000	AV	36.83	32.16	17.18	43.07	2.49	45.59	53.9	8.3	162	122	VBW:10 Hz

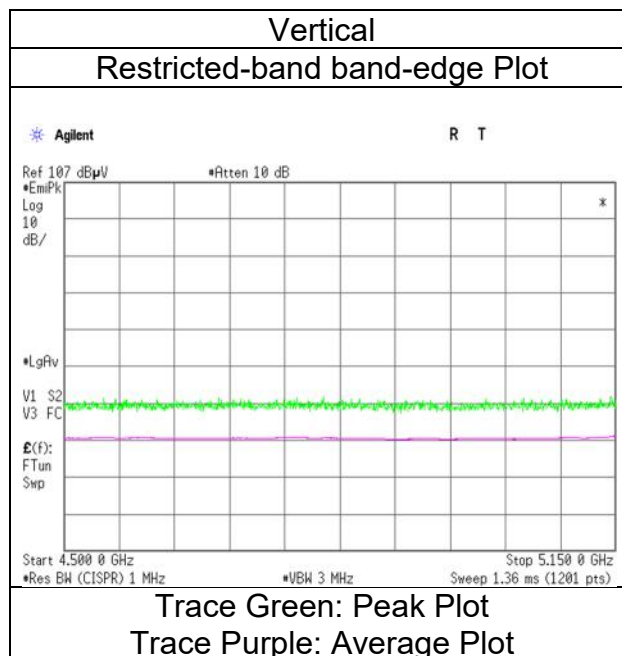
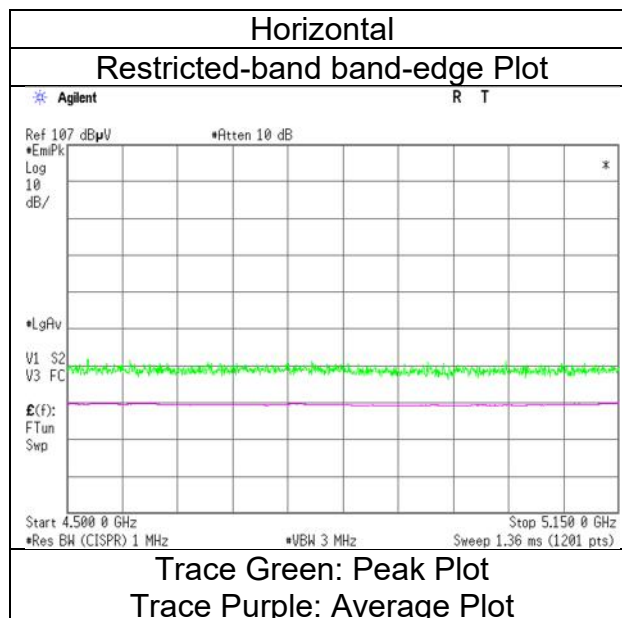
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 37 %RH
Engineer	Akihiro Oda
Mode	Tx 11ac-40, 5190 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5310 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.45	31.98	17.30	43.30	2.49	57.92	73.9	15.9	281	48	-
Hori.	5350.000	AV	36.82	31.98	17.30	43.30	2.49	45.29	53.9	8.6	281	48	VBW:10 Hz
Vert.	5350.000	PK	49.41	31.98	17.30	43.30	2.49	57.88	73.9	16.0	177	124	-
Vert.	5350.000	AV	37.30	31.98	17.30	43.30	2.49	45.77	53.9	8.1	177	124	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

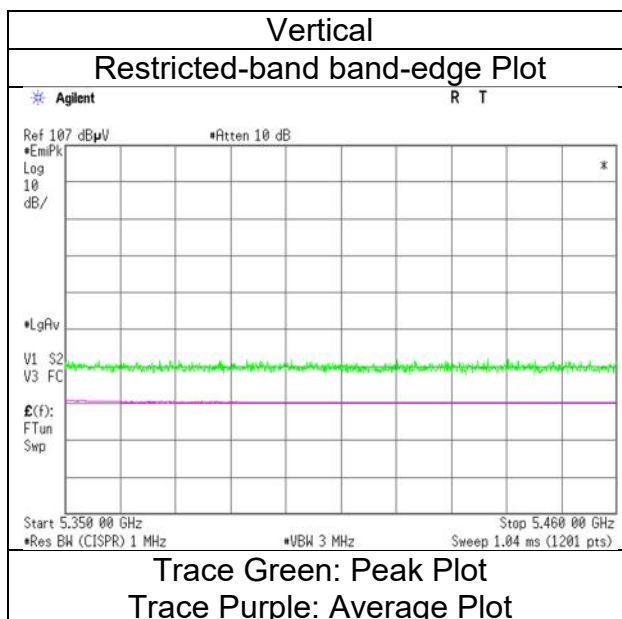
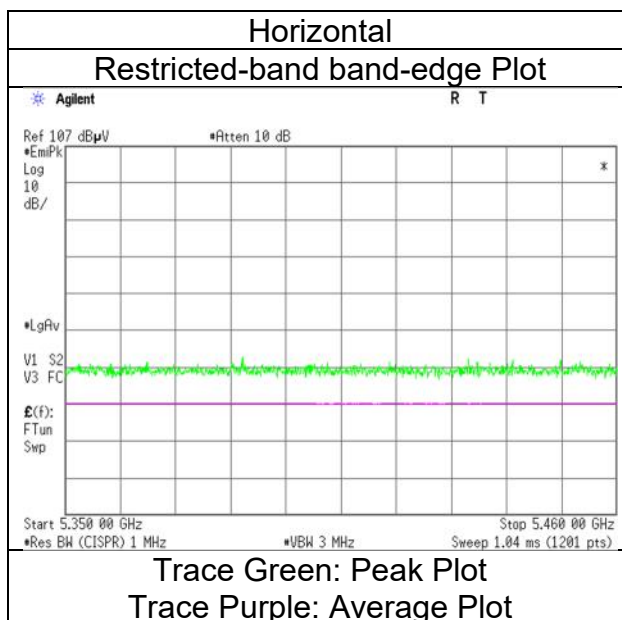
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 37 %RH
Akihiro Oda
Tx 11ac-40, 5310 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5510 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.54	32.24	17.38	43.42	2.49	58.23	73.9	15.6	244	321	-
Hori.	5460.000	AV	37.14	32.24	17.38	43.42	2.49	45.83	53.9	8.0	244	321	VBW:10 Hz
Vert.	5460.000	PK	49.28	32.24	17.38	43.42	2.49	57.97	73.9	15.9	180	121	-
Vert.	5460.000	AV	37.67	32.24	17.38	43.42	2.49	46.36	53.9	7.5	180	121	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.29	32.25	17.39	43.44	2.49	58.98	-36.25	-27.0	9.2	244	321	-
Vert.	5470.000	PK	50.77	32.25	17.39	43.44	2.49	59.46	-35.77	-27.0	8.7	180	121	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

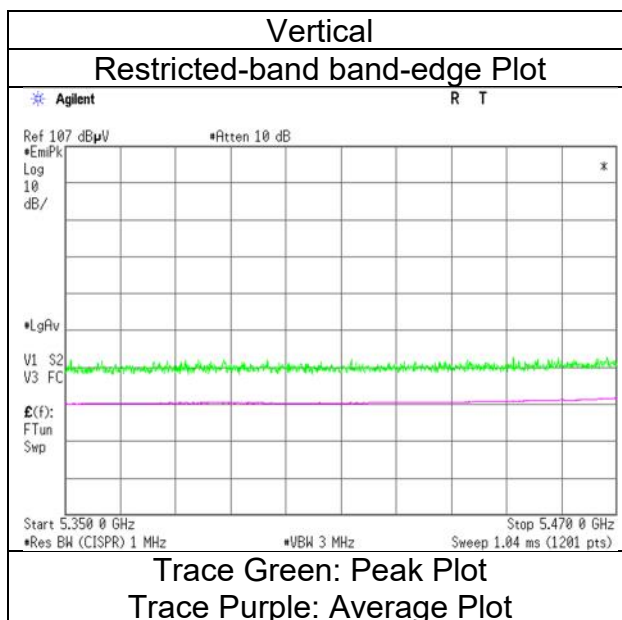
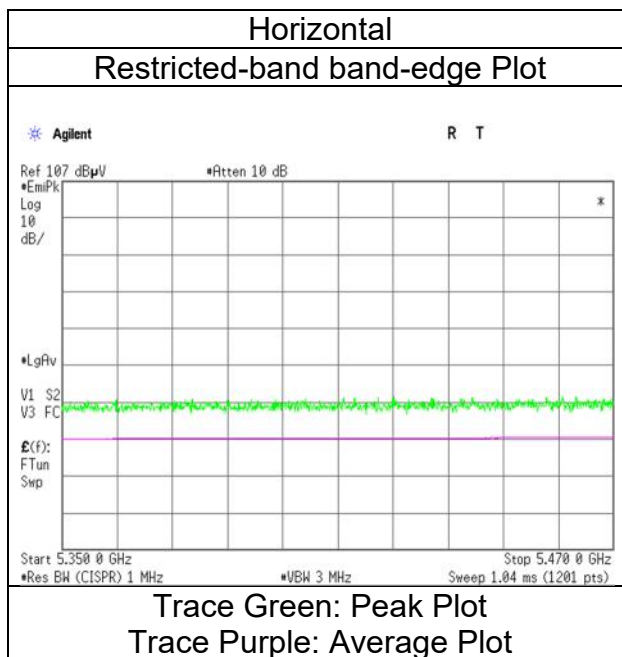
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 37 %RH
Engineer	Akihiro Oda
Mode	Tx 11ac-40, 5510 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5670 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.88	32.63	17.53	43.42	2.49	58.11	-37.12	-27.0	10.1	181	46	-
Vert.	5725.000	PK	48.91	32.63	17.53	43.42	2.49	58.14	-37.09	-27.0	10.0	186	118	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

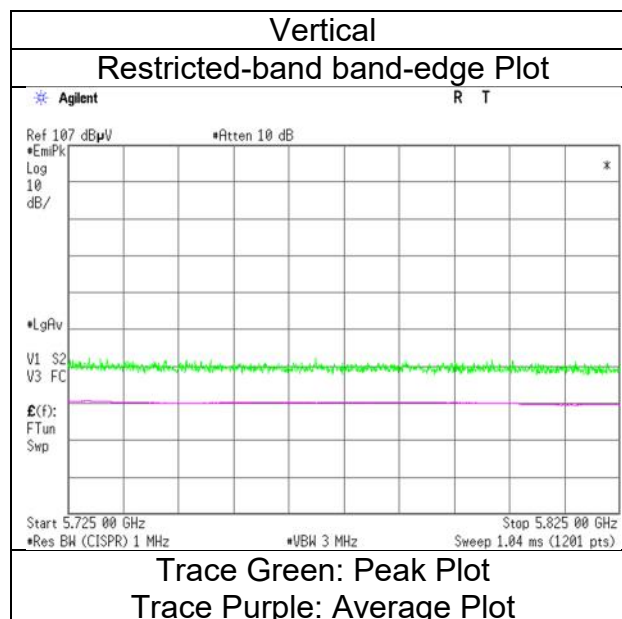
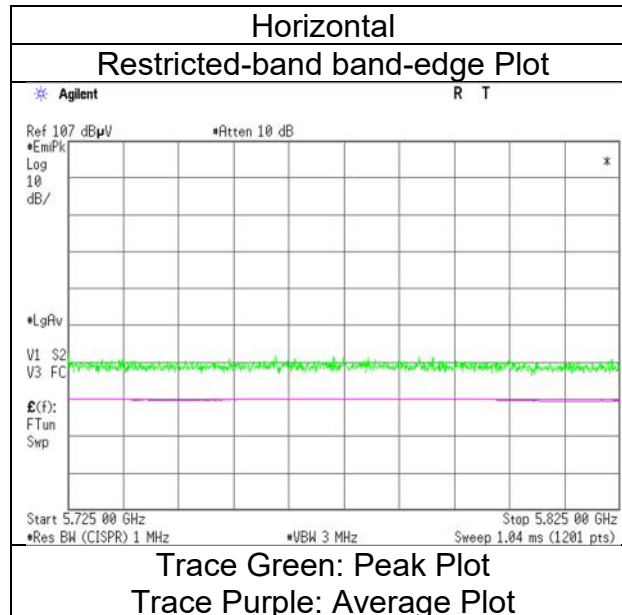
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 37 %RH
Akihiro Oda
Tx 11ac-40, 5670 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5755 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.69	32.44	17.50	43.44	2.49	57.68	-37.55	-27.0	10.5	115	46	-
Hori.	5700.000	PK	48.99	32.56	17.52	43.43	2.49	58.13	-37.10	10.0	47.1	115	46	-
Hori.	5720.000	PK	49.95	32.61	17.53	43.42	2.49	59.16	-36.07	15.6	51.6	115	46	-
Hori.	5725.000	PK	50.61	32.63	17.53	43.42	2.49	59.84	-35.39	27.0	62.3	115	46	-
Vert.	5650.000	PK	48.68	32.44	17.50	43.44	2.49	57.67	-37.56	-27.0	10.5	192	121	-
Vert.	5700.000	PK	48.97	32.56	17.52	43.43	2.49	58.11	-37.12	10.0	47.1	192	121	-
Vert.	5720.000	PK	50.35	32.61	17.53	43.42	2.49	59.56	-35.67	15.6	51.2	192	121	-
Vert.	5725.000	PK	50.29	32.63	17.53	43.42	2.49	59.52	-35.71	27.0	62.7	192	121	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

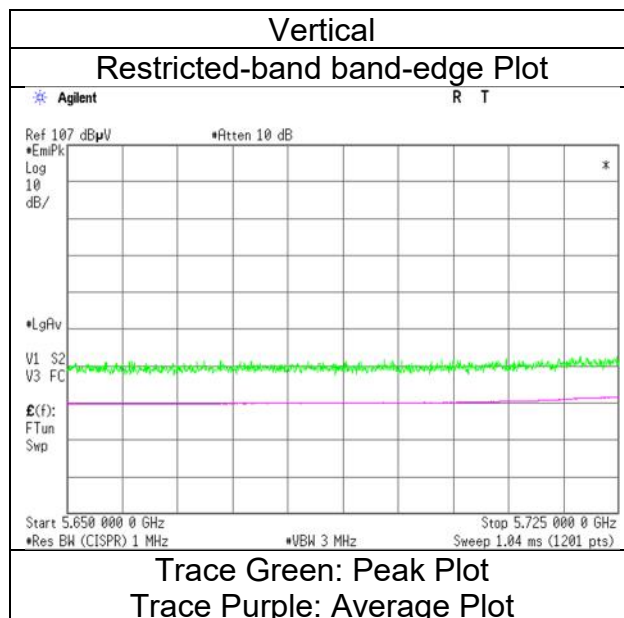
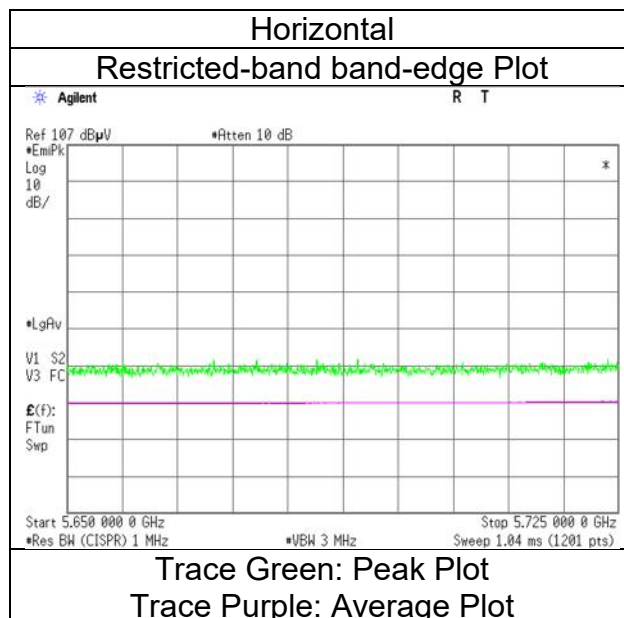
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 37 %RH
Engineer	Akihiro Oda
Mode	Tx 11ac-40, 5755 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz - 6.4 GHz)
Mode Tx 11ac-40, 5795 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.18	32.94	17.61	43.39	2.49	58.83	-36.40	27.0	63.4	109	45	-
Hori.	5855.000	PK	49.25	32.95	17.61	43.39	2.49	58.91	-36.32	15.6	51.9	109	45	-
Hori.	5875.000	PK	49.26	32.98	17.64	43.39	2.49	58.98	-36.25	10.0	46.2	109	45	-
Hori.	5925.000	PK	50.02	33.06	17.66	43.38	2.49	59.85	-35.38	-27.0	8.3	109	45	-
Vert.	5850.000	PK	48.01	32.94	17.61	43.39	2.49	57.66	-37.57	27.0	64.5	196	116	-
Vert.	5855.000	PK	48.15	32.95	17.61	43.39	2.49	57.81	-37.42	15.6	53.0	196	116	-
Vert.	5875.000	PK	48.58	32.98	17.64	43.39	2.49	58.30	-36.93	10.0	46.9	196	116	-
Vert.	5925.000	PK	49.13	33.06	17.66	43.38	2.49	58.96	-36.27	-27.0	9.2	196	116	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

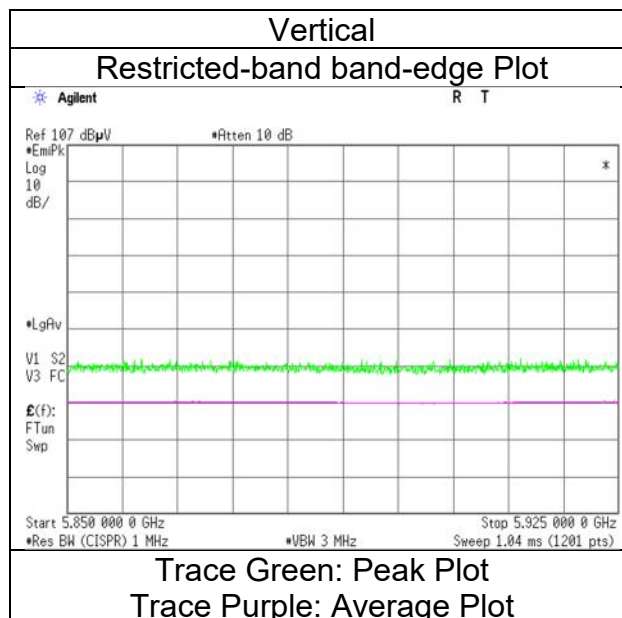
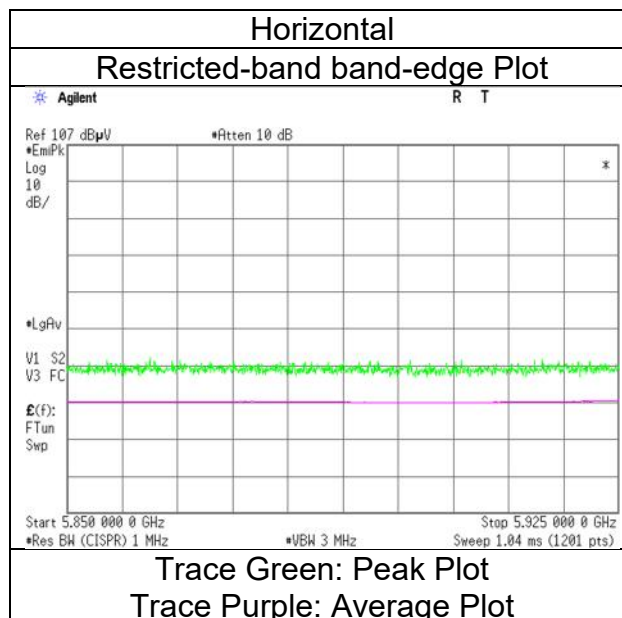
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 37 %RH
Engineer	Akihiro Oda
Mode	Tx 11ac-40, 5795 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 5, 2023
Temperature / Humidity 22 deg.C, 32 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDM), 5190 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.66	32.16	17.18	43.07	2.49	57.42	73.9	16.4	188	120	-
Hori.	5150.000	AV	36.86	32.16	17.18	43.07	2.49	45.62	53.9	8.2	188	120	VBW:10 Hz
Vert.	5150.000	PK	48.10	32.16	17.18	43.07	2.49	56.86	73.9	17.0	152	228	-
Vert.	5150.000	AV	36.58	32.16	17.18	43.07	2.49	45.34	53.9	8.5	152	228	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

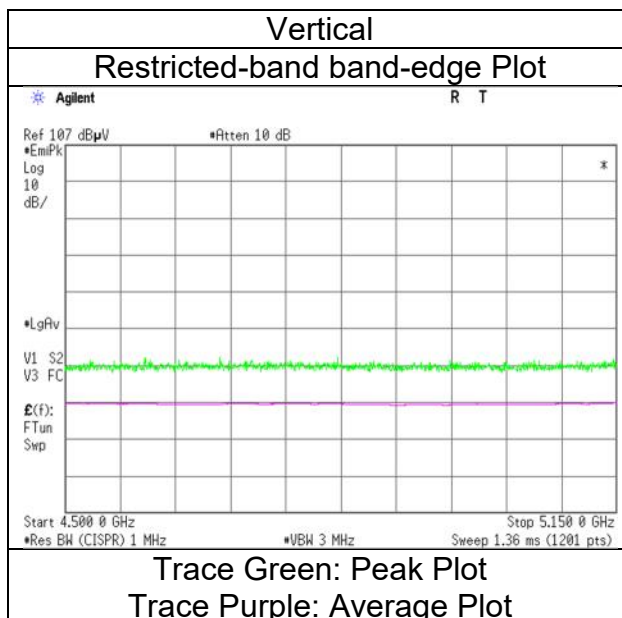
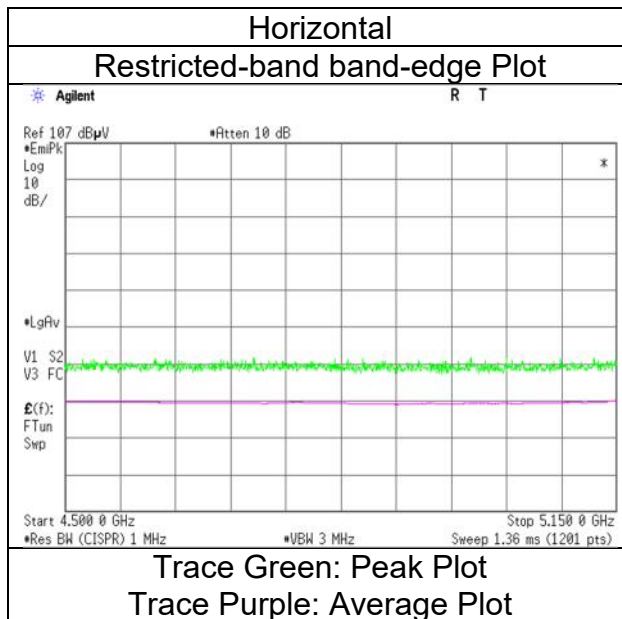
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 5, 2023
22 deg.C, 32 %RH
Akihiro Oda
Tx 11ax-40 (OFDM), 5190 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 5, 2023
Temperature / Humidity 22 deg.C, 32 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDM), 5310 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.19	31.98	17.30	43.30	2.49	57.66	73.9	16.2	192	127	-
Hori.	5350.000	AV	37.60	31.98	17.30	43.30	2.49	46.07	53.9	7.8	192	127	VBW:10 Hz
Vert.	5350.000	PK	49.08	31.98	17.30	43.30	2.49	57.55	73.9	16.3	197	242	-
Vert.	5350.000	AV	37.23	31.98	17.30	43.30	2.49	45.70	53.9	8.2	197	242	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

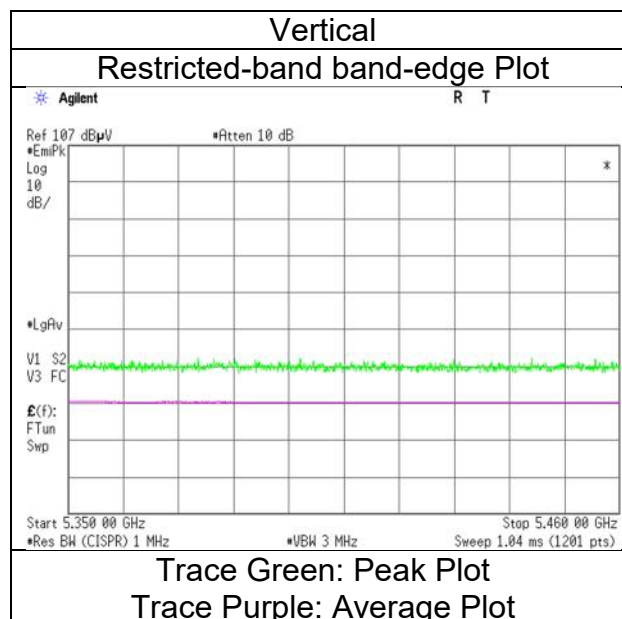
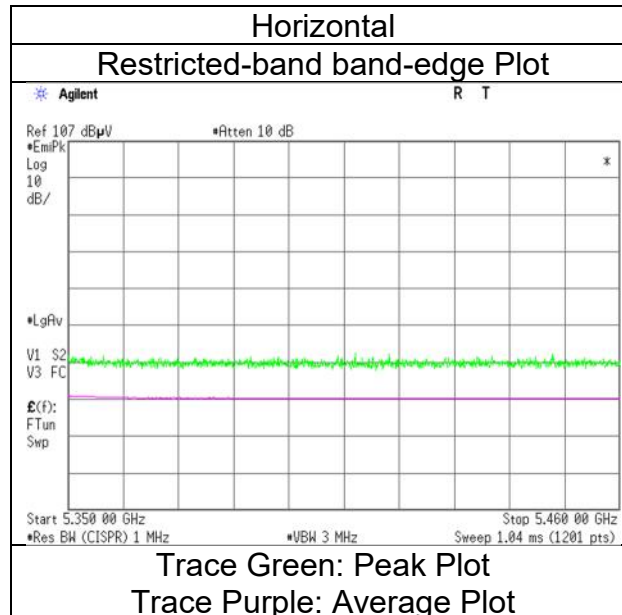
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 5, 2023
22 deg.C, 32 %RH
Akihiro Oda
Tx 11ax-40 (OFDM), 5310 MHz with DH5 Hopping



* 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	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	January 24, 2024	December 5, 2023	January 23, 2024	January 10, 2024
Temperature / Humidity	21 deg.C, 24 %RH	22 deg.C, 22 %RH	23 deg.C, 30 %RH	23 deg.C, 24 %RH
Engineer	Yosuke Murakami	AKihiro Oda	Kouki Yamada	Takayuki Kobayashi
	(30 MHz -1 GHz)	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz, 18 GHz -26.5 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-40 (OFDM), 5510 MHz with DH5 Hopping			

(below 1 GHz and above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	30.043	QP	22.40	18.99	6.48	32.20	0.00	15.67	40.0	24.3	100	0	-
Hori.	787.809	QP	21.20	20.67	10.59	31.68	0.00	20.78	46.0	25.2	100	0	-
Hori.	841.801	QP	21.00	21.28	10.77	31.41	0.00	21.64	46.0	24.3	100	0	-
Hori.	870.007	QP	21.10	21.99	10.86	31.24	0.00	22.71	46.0	23.2	100	0	-
Hori.	954.160	QP	20.50	21.97	11.13	30.68	0.00	22.92	46.0	23.0	100	0	-
Hori.	5460.000	PK	49.65	32.24	17.38	43.42	2.49	58.34	73.9	15.5	192	124	-
Hori.	11020.000	PK	52.06	37.59	9.60	42.89	-9.54	46.82	73.9	27.0	100	304	-
Hori.	5460.000	AV	37.90	32.24	17.38	43.42	2.49	46.59	53.9	7.3	192	124	VBW:10 Hz
Hori.	11020.000	AV	38.66	37.59	9.60	42.89	-9.54	33.42	53.9	20.4	100	304	VBW:10 Hz
Vert.	32.146	QP	21.90	18.21	6.52	32.20	0.00	14.43	40.0	25.5	100	0	-
Vert.	922.999	QP	20.60	22.11	11.03	30.91	0.00	22.83	46.0	23.1	100	0	-
Vert.	936.215	QP	20.60	22.07	11.08	30.82	0.00	22.93	46.0	23.0	100	0	-
Vert.	5460.000	PK	49.56	32.24	17.38	43.42	2.49	58.25	73.9	15.6	183	239	-
Vert.	11020.000	PK	48.22	37.59	9.60	42.89	-9.54	42.98	73.9	30.9	100	219	-
Vert.	5460.000	AV	37.48	32.24	17.38	43.42	2.49	46.17	53.9	7.7	183	239	VBW:10 Hz
Vert.	11020.000	AV	36.34	37.59	9.60	42.89	-9.54	31.10	53.9	22.8	100	219	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.28	32.25	17.39	43.44	2.49	58.97	-36.26	-27.0	9.2	192	124	-
Hori.	16530.000	PK	50.66	40.11	12.30	40.64	-9.54	52.89	-42.34	-27.0	15.3	100	157	-
Vert.	5470.000	PK	50.88	32.25	17.39	43.44	2.49	59.57	-35.66	-27.0	8.6	183	239	-
Vert.	16530.000	PK	50.50	40.11	12.30	40.64	-9.54	52.73	-42.50	-27.0	15.5	100	240	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

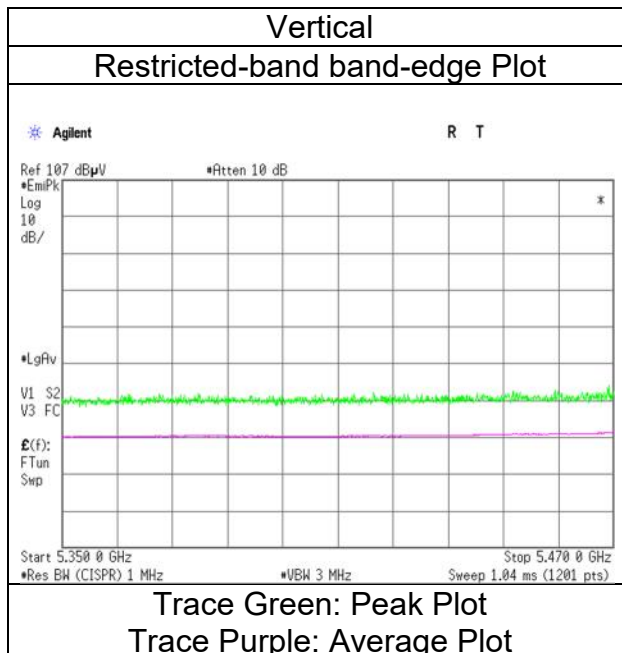
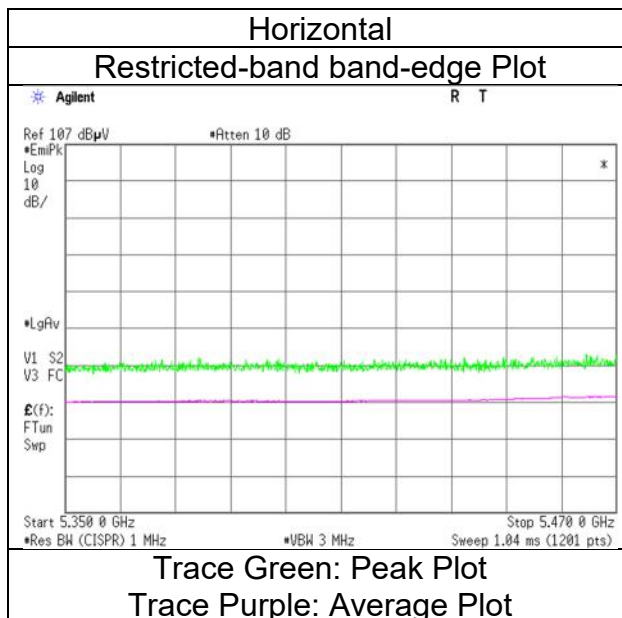
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 5, 2023
22 deg.C, 32 %RH
Akihiro Oda
Tx 11ax-40 (OFDM), 5510 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 5, 2023
Temperature / Humidity 22 deg.C, 32 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDM), 5670 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.49	32.63	17.53	43.42	2.49	57.72	-37.51	-27.0	10.5	186	123	-
Vert.	5725.000	PK	49.09	32.63	17.53	43.42	2.49	58.32	-36.91	-27.0	9.9	189	236	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

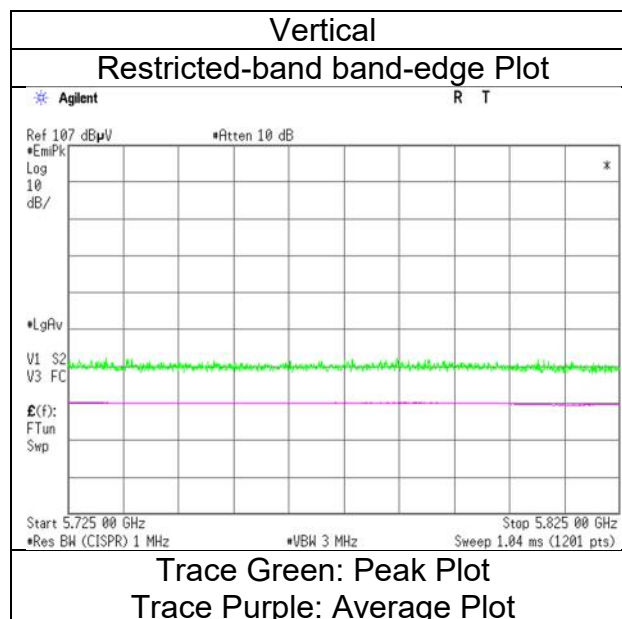
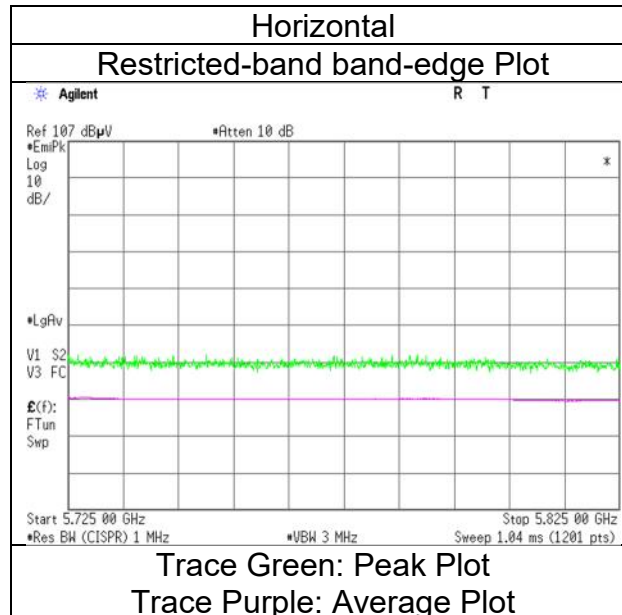
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 5, 2023
22 deg.C, 32 %RH
Akihiro Oda
Tx 11ax-40 (OFDM), 5670 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 5, 2023
Temperature / Humidity 22 deg.C, 32 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDM), 5755 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.68	32.44	17.50	43.44	2.49	57.67	-37.56	-27.0	10.5	193	122	-
Hori.	5700.000	PK	47.73	32.56	17.52	43.43	2.49	56.87	-38.36	10.0	48.3	193	122	-
Hori.	5720.000	PK	48.51	32.61	17.53	43.42	2.49	57.72	-37.51	15.6	53.1	193	122	-
Hori.	5725.000	PK	49.33	32.63	17.53	43.42	2.49	58.56	-36.67	27.0	63.6	193	122	-
Vert.	5650.000	PK	48.78	32.44	17.50	43.44	2.49	57.77	-37.46	-27.0	10.4	188	232	-
Vert.	5700.000	PK	48.64	32.56	17.52	43.43	2.49	57.78	-37.45	10.0	47.4	188	232	-
Vert.	5720.000	PK	48.50	32.61	17.53	43.42	2.49	57.71	-37.52	15.6	53.1	188	232	-
Vert.	5725.000	PK	48.69	32.63	17.53	43.42	2.49	57.92	-37.31	27.0	64.3	188	232	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

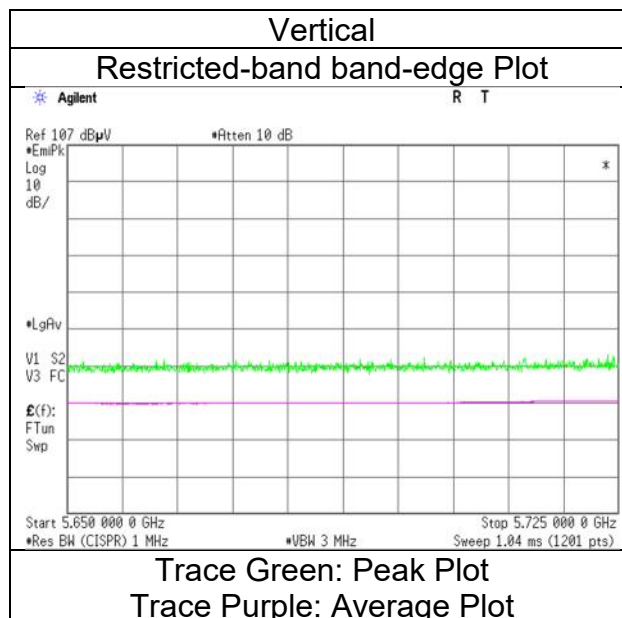
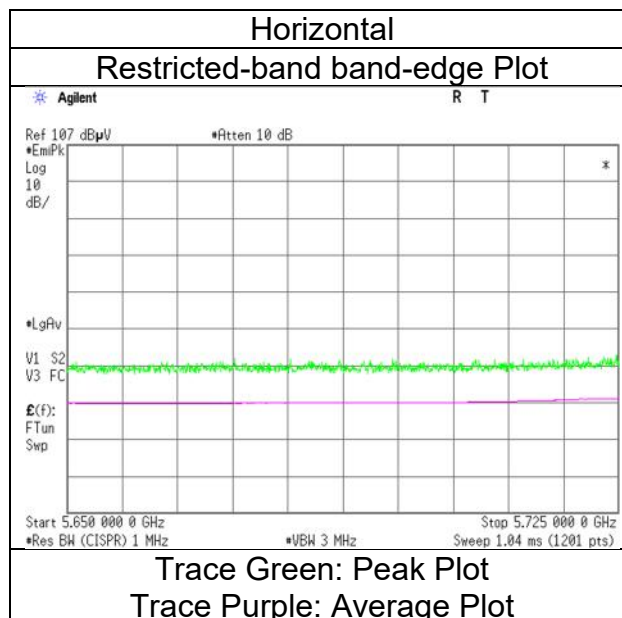
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 5, 2023
22 deg.C, 32 %RH
Akihiro Oda
Tx 11ax-40 (OFDM), 5755 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 5, 2023
Temperature / Humidity 22 deg.C, 32 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDM), 5795 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.18	32.94	17.61	43.39	2.49	58.83	-36.40	27.0	63.4	191	123	-
Hori.	5855.000	PK	48.86	32.95	17.61	43.39	2.49	58.52	-36.71	15.6	52.3	191	123	-
Hori.	5875.000	PK	48.78	32.98	17.64	43.39	2.49	58.50	-36.73	10.0	46.7	191	123	-
Hori.	5925.000	PK	49.01	33.06	17.66	43.38	2.49	58.84	-36.39	-27.0	9.3	191	123	-
Vert.	5850.000	PK	48.97	32.94	17.61	43.39	2.49	58.62	-36.61	27.0	63.6	185	231	-
Vert.	5855.000	PK	47.84	32.95	17.61	43.39	2.49	57.50	-37.73	15.6	53.3	185	231	-
Vert.	5875.000	PK	48.52	32.98	17.64	43.39	2.49	58.24	-36.99	10.0	46.9	185	231	-
Vert.	5925.000	PK	48.79	33.06	17.66	43.38	2.49	58.62	-36.61	-27.0	9.6	185	231	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

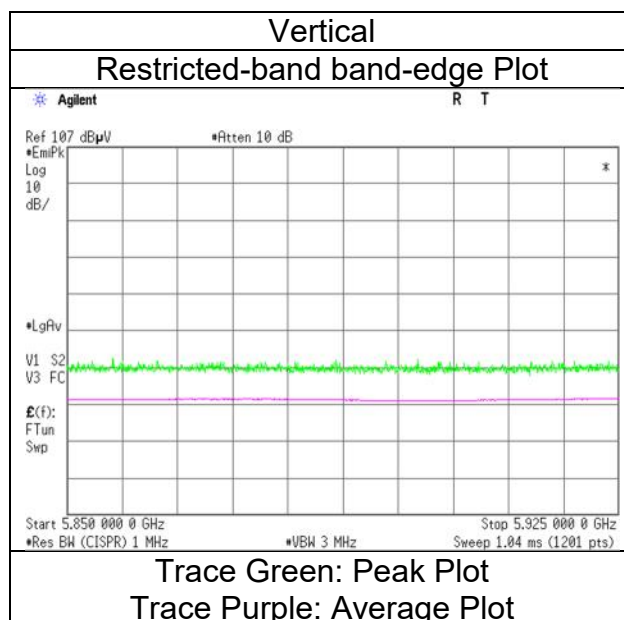
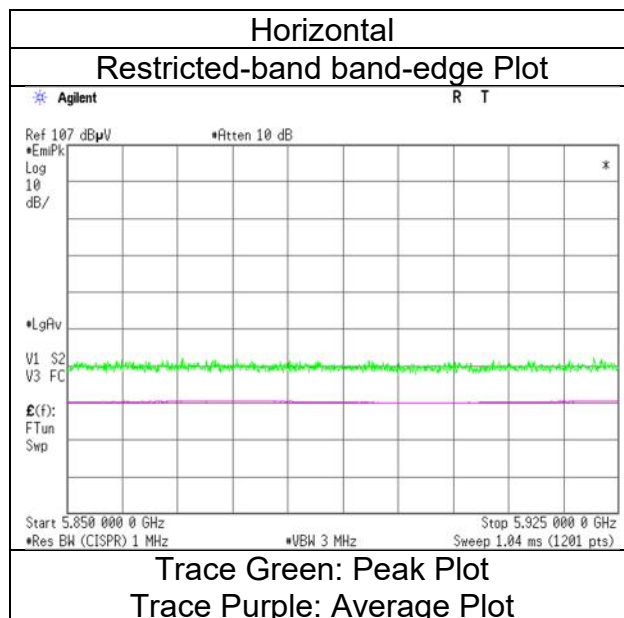
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 5, 2023
22 deg.C, 32 %RH
Akihiro Oda
Tx 11ax-40 (OFDM), 5795 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-80, 5210 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.66	32.16	17.18	43.07	2.49	58.42	73.9	15.4	192	115	-
Hori.	5150.000	AV	37.13	32.16	17.18	43.07	2.49	45.89	53.9	8.0	192	115	VBW:1.3 kHz
Vert.	5150.000	PK	49.04	32.16	17.18	43.07	2.49	57.80	73.9	16.1	218	154	-
Vert.	5150.000	AV	37.51	32.16	17.18	43.07	2.49	46.27	53.9	7.6	218	154	VBW:1.3 kHz

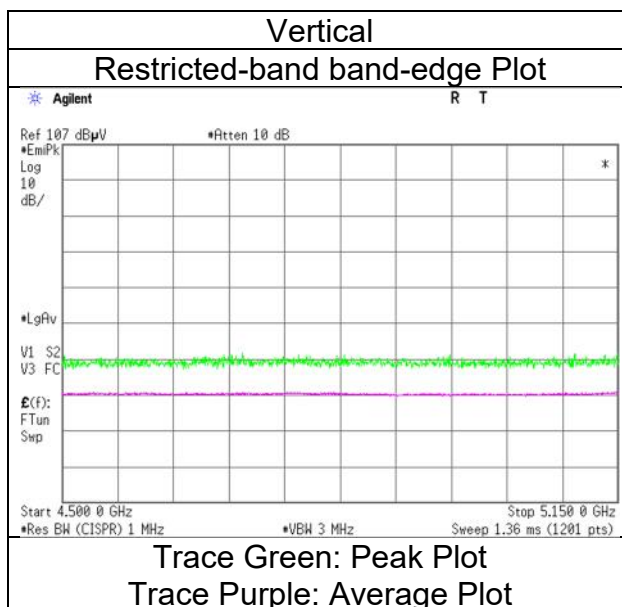
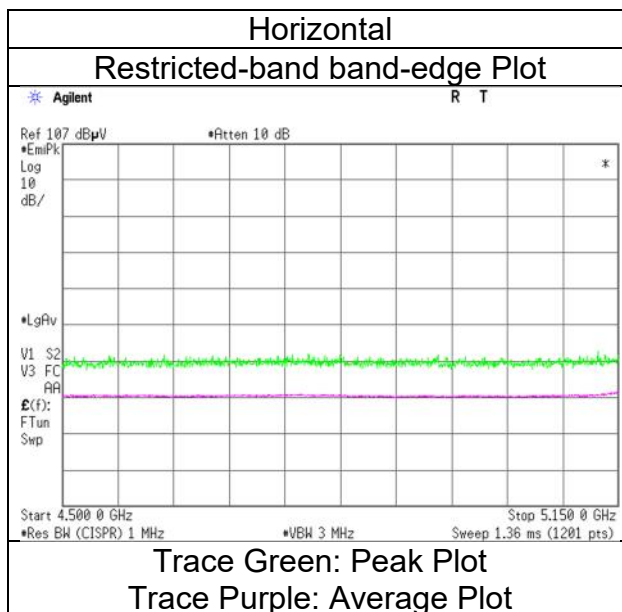
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 37 %RH
Engineer	Akihiro Oda
Mode	Tx 11ac-80, 5210 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-80, 5290 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.30	31.98	17.30	43.30	2.49	57.77	73.9	16.1	198	119	-
Hori.	5350.000	AV	39.22	31.98	17.30	43.30	2.49	47.69	53.9	6.2	198	119	VBW: 1.3 kHz
Vert.	5350.000	PK	48.94	31.98	17.30	43.30	2.49	57.41	73.9	16.4	193	246	-
Vert.	5350.000	AV	38.40	31.98	17.30	43.30	2.49	46.87	53.9	7.0	193	246	VBW: 1.3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

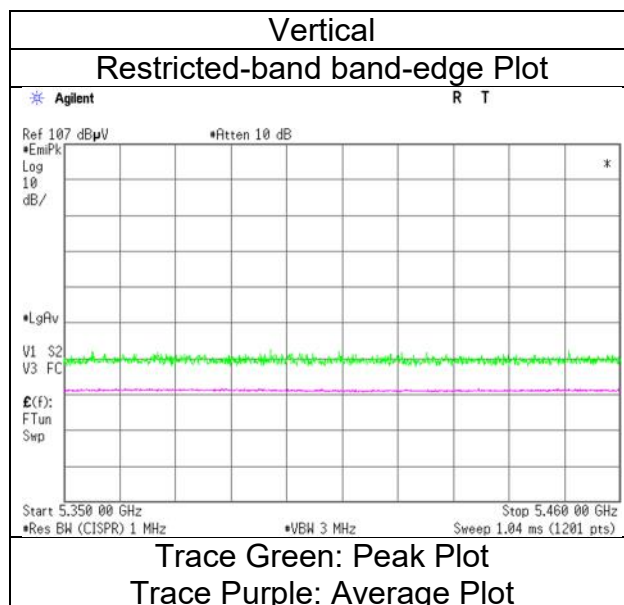
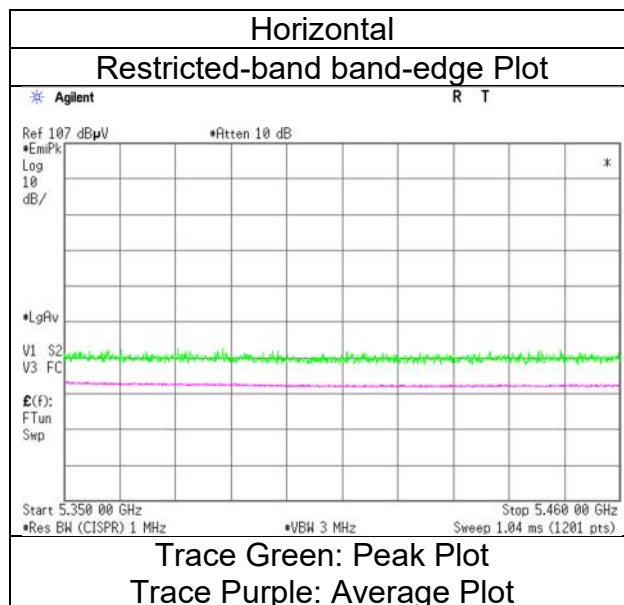
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 37 %RH
Engineer	Akihiro Oda
Mode	Tx 11ac-80, 5290 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-80, 5530 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.97	32.24	17.38	43.42	2.49	59.66	73.9	14.2	215	122	-
Hori.	5460.000	AV	39.11	32.24	17.38	43.42	2.49	47.80	53.9	6.1	215	122	VBW:1.3 kHz
Vert.	5460.000	PK	50.45	32.24	17.38	43.42	2.49	59.14	73.9	14.7	183	239	-
Vert.	5460.000	AV	38.93	32.24	17.38	43.42	2.49	47.62	53.9	6.2	183	239	VBW:1.3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.66	32.25	17.39	43.44	2.49	59.35	-35.88	-27.0	8.8	215	122	-
Vert.	5470.000	PK	49.93	32.25	17.39	43.44	2.49	58.62	-36.61	-27.0	9.6	183	239	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (ERP [dBm]) = $10 * \text{LOG} ((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6) * \text{Distance : 3 [m]})^2 / 30 * 10^{\wedge}3)$

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

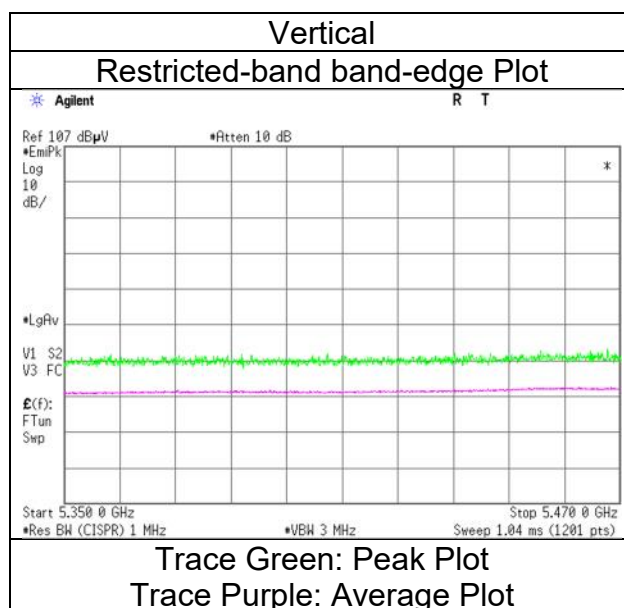
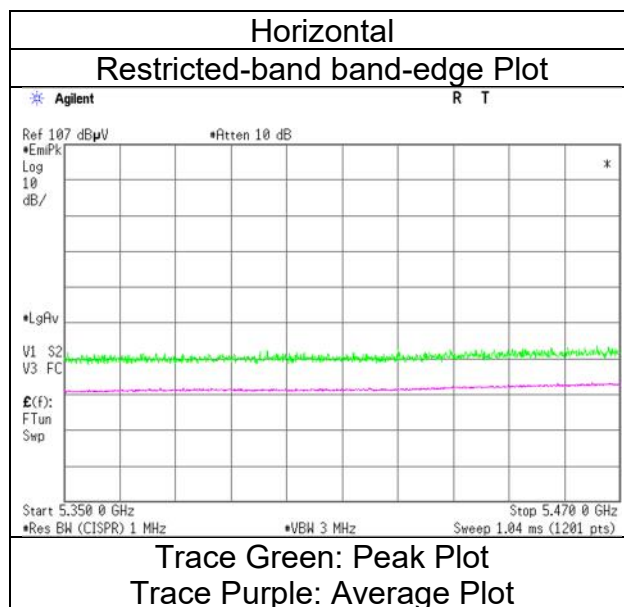
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 37 %RH
Akihiro Oda
Tx 11ac-80, 5530 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-80, 5610 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.97	32.63	17.53	43.42	2.49	58.20	-37.03	-27.0	10.0	202	113	-
Vert.	5725.000	PK	47.99	32.63	17.53	43.42	2.49	57.22	-38.01	-27.0	11.0	186	231	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

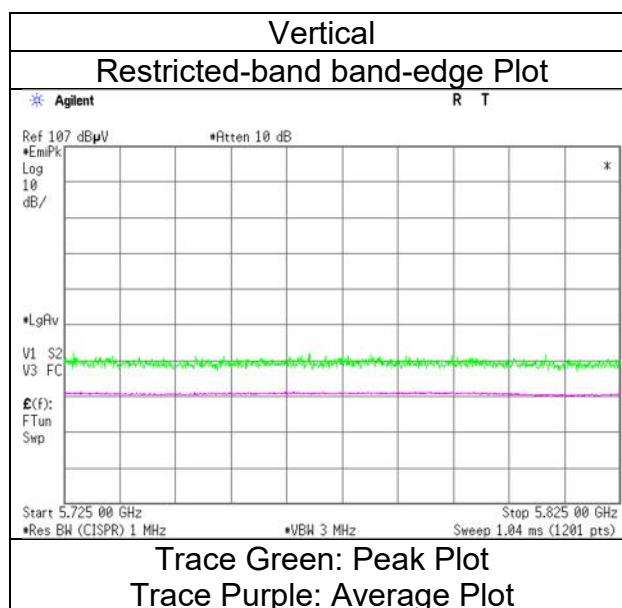
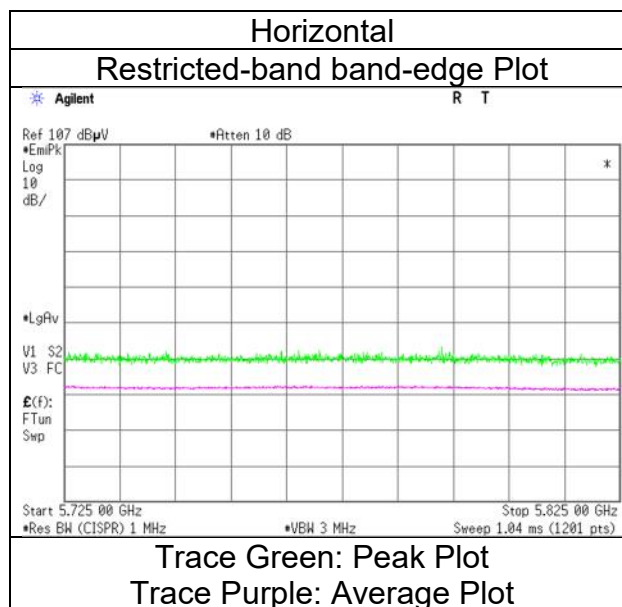
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 37 %RH
Akihiro Oda
Tx 11ac-80, 5610 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 37 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ac-80, 5775 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.77	32.44	17.50	43.44	2.49	57.76	-37.47	-27.0	10.4	189	121	-
Hori.	5700.000	PK	48.90	32.56	17.52	43.43	2.49	58.04	-37.19	10.0	47.1	189	121	-
Hori.	5720.000	PK	49.27	32.61	17.53	43.42	2.49	58.48	-36.75	15.6	52.3	189	121	-
Hori.	5725.000	PK	49.04	32.63	17.53	43.42	2.49	58.27	-36.96	27.0	63.9	189	121	-
Hori.	5850.000	PK	48.58	32.94	17.61	43.39	2.49	58.23	-37.00	27.0	64.0	189	121	-
Hori.	5855.000	PK	48.47	32.95	17.61	43.39	2.49	58.13	-37.10	15.6	52.7	189	121	-
Hori.	5875.000	PK	47.71	32.98	17.64	43.39	2.49	57.43	-37.80	10.0	47.8	189	121	-
Hori.	5925.000	PK	49.81	33.06	17.66	43.38	2.49	59.64	-35.59	-27.0	8.5	189	121	-
Vert.	5650.000	PK	48.62	32.44	17.50	43.44	2.49	57.61	-37.62	-27.0	10.6	205	239	-
Vert.	5700.000	PK	48.67	32.56	17.52	43.43	2.49	57.81	-37.42	10.0	47.4	205	239	-
Vert.	5720.000	PK	48.92	32.61	17.53	43.42	2.49	58.13	-37.10	15.6	52.7	205	239	-
Vert.	5725.000	PK	48.10	32.63	17.53	43.42	2.49	57.33	-37.90	27.0	64.9	205	239	-
Vert.	5850.000	PK	48.55	32.94	17.61	43.39	2.49	58.20	-37.03	27.0	64.0	205	239	-
Vert.	5855.000	PK	49.15	32.95	17.61	43.39	2.49	58.81	-36.42	15.6	52.0	205	239	-
Vert.	5875.000	PK	48.92	32.98	17.64	43.39	2.49	58.64	-36.59	10.0	46.5	205	239	-
Vert.	5925.000	PK	49.35	33.06	17.66	43.38	2.49	59.18	-36.05	-27.0	9.0	205	239	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

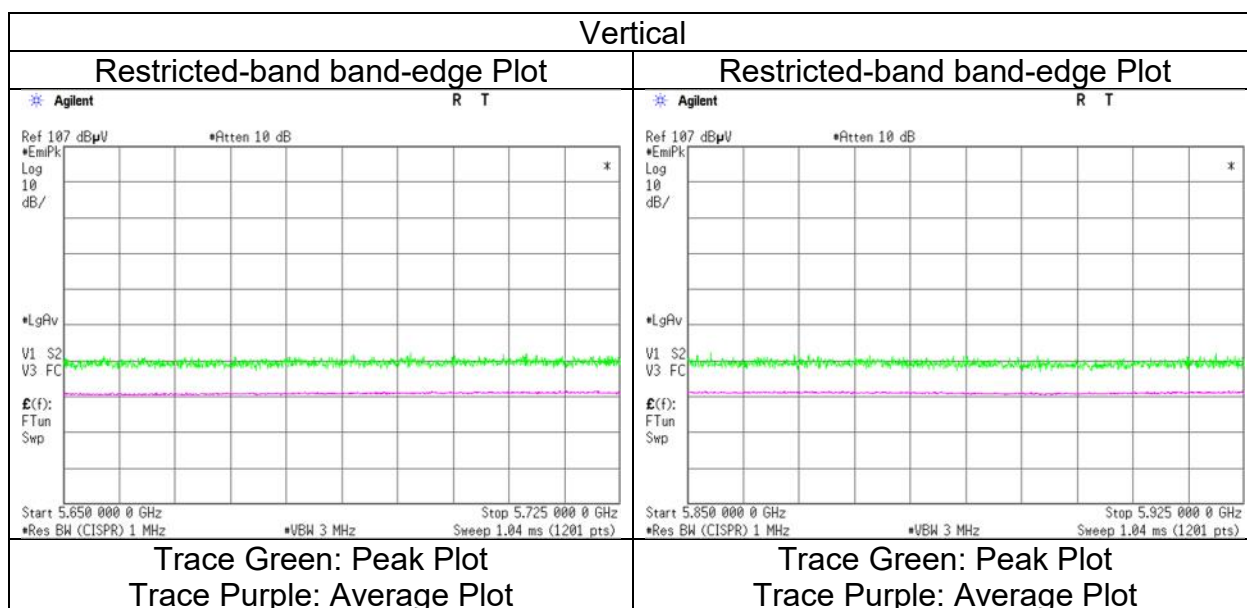
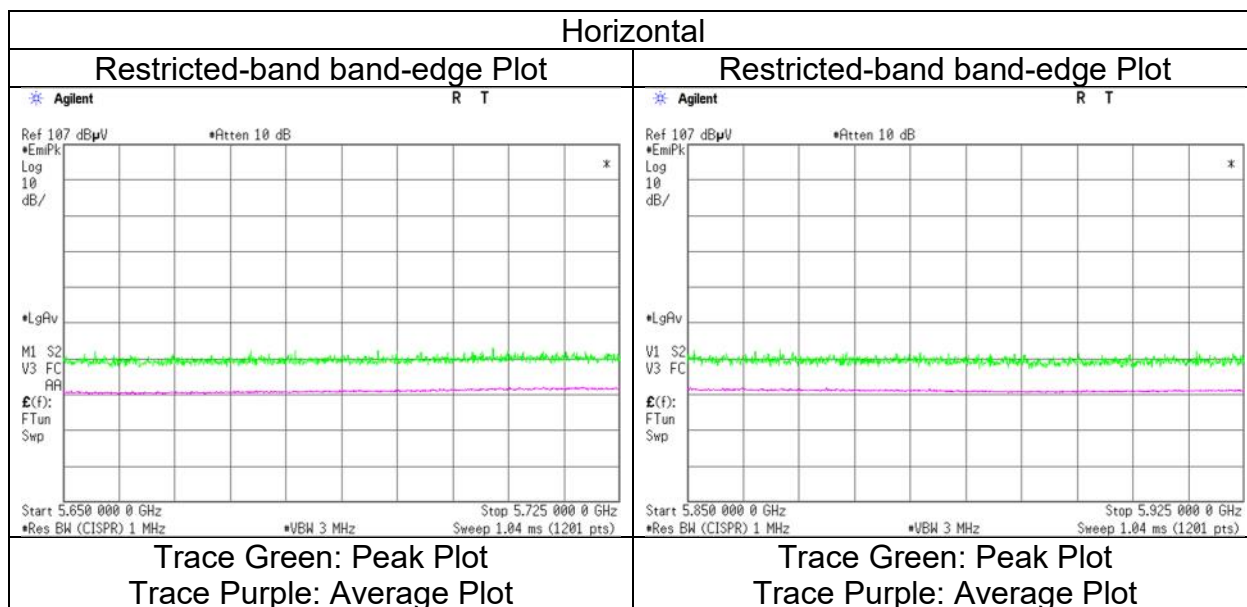
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 37 %RH
Engineer	Akihiro Oda
Mode	Tx 11ac-80, 5775 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 30 %RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDM), 5210 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.25	32.16	17.18	43.07	2.49	60.01	73.9	13.8	202	118	-
Hori.	5150.000	AV	38.52	32.16	17.18	43.07	2.49	47.28	53.9	6.6	202	118	VBW:1.3 kHz
Vert.	5150.000	PK	51.36	32.16	17.18	43.07	2.49	60.12	73.9	13.7	167	152	-
Vert.	5150.000	AV	38.40	32.16	17.18	43.07	2.49	47.16	53.9	6.7	167	152	VBW:1.3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

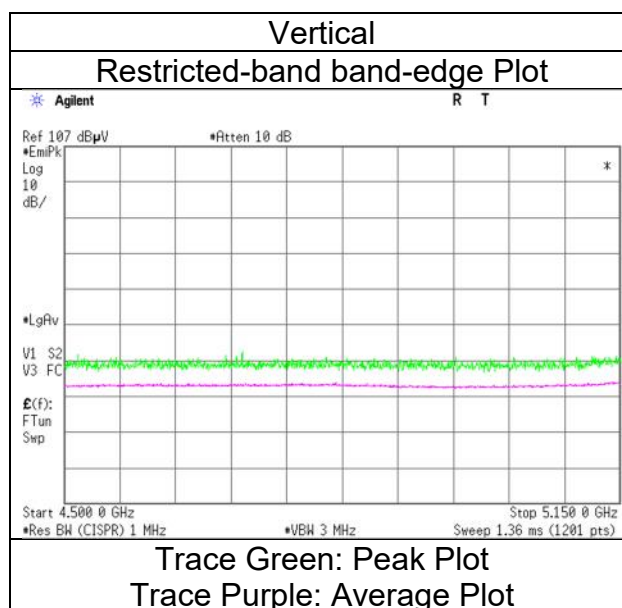
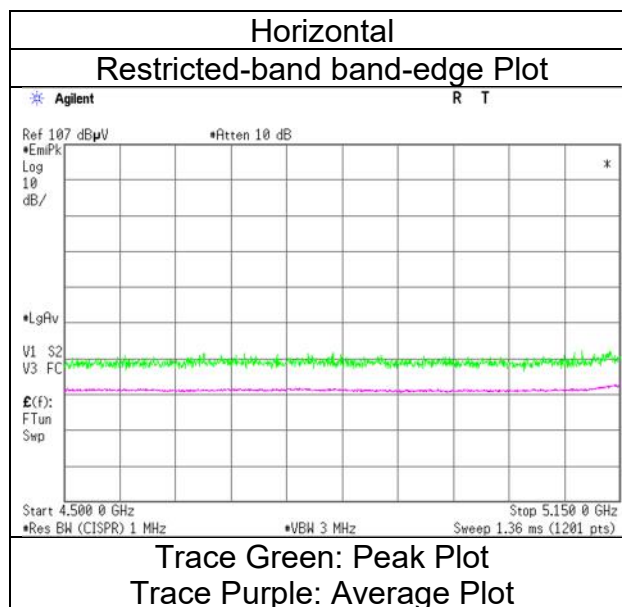
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 30 %RH
Takahiro Suzuki
Tx 11ax-80 (OFDM), 5210 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 30 %RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDM), 5290 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.74	31.98	17.30	43.30	2.49	60.21	73.9	13.6	209	115	-
Hori.	5350.000	AV	38.99	31.98	17.30	43.30	2.49	47.46	53.9	6.4	209	115	VBW: 1.3 kHz
Vert.	5350.000	PK	51.05	31.98	17.30	43.30	2.49	59.52	73.9	14.3	166	149	-
Vert.	5350.000	AV	38.23	31.98	17.30	43.30	2.49	46.70	53.9	7.2	166	149	VBW: 1.3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

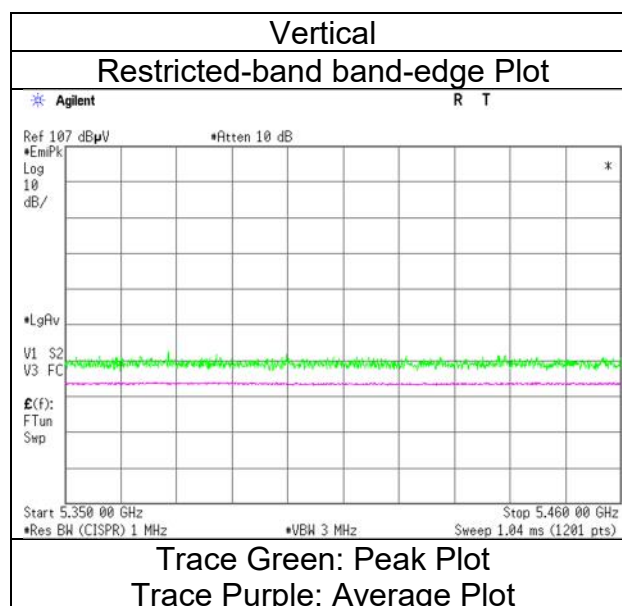
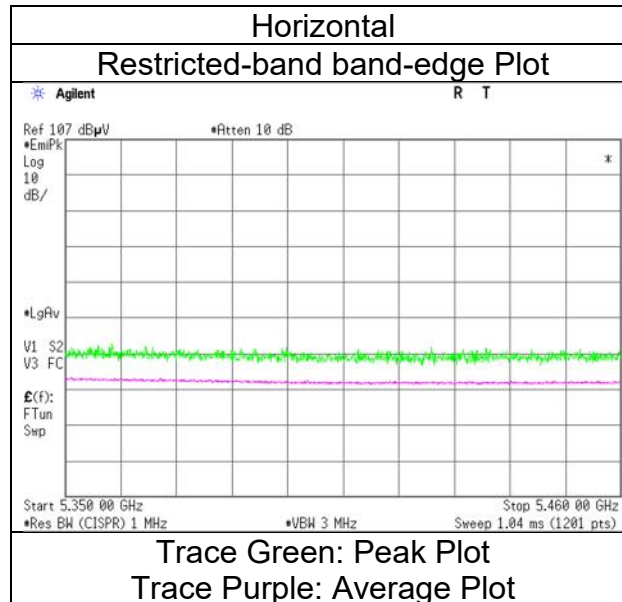
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 30 %RH
Takahiro Suzuki
Tx 11ax-80 (OFDM), 5290 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 30 %RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDM), 5530 MHz with DH5 Hopping

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	52.43	32.24	17.38	43.42	2.49	61.12	73.9	12.7	209	116	-
Hori.	5460.000	AV	39.87	32.24	17.38	43.42	2.49	48.56	53.9	5.3	209	116	VBW:1.3 kHz
Vert.	5460.000	PK	52.22	32.24	17.38	43.42	2.49	60.91	73.9	12.9	167	55	-
Vert.	5460.000	AV	38.99	32.24	17.38	43.42	2.49	47.68	53.9	6.2	167	55	VBW:1.3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.01	32.25	17.39	43.44	2.49	59.70	-35.53	-27.0	8.5	209	116	-
Vert.	5470.000	PK	52.01	32.25	17.39	43.44	2.49	60.70	-34.53	-27.0	7.5	167	55	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (ERP [dBm]) = $10 * \text{LOG} ((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6)) * \text{Distance} : 3 [\text{m}])^{\wedge}2 / 30 * 10^{\wedge}3)$

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

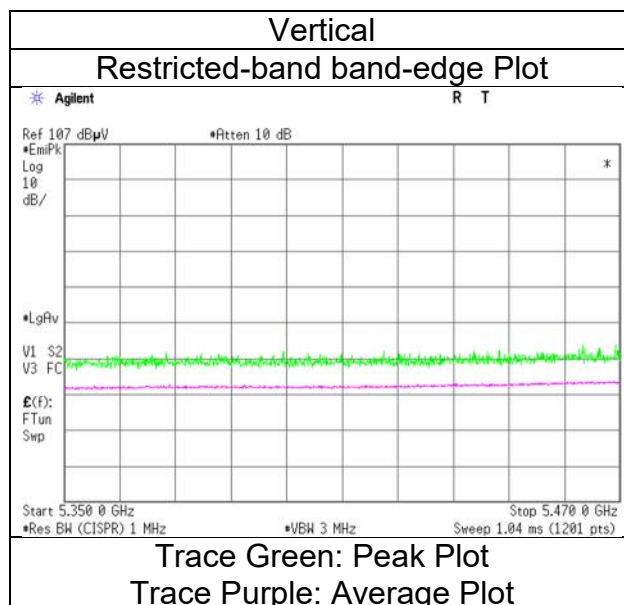
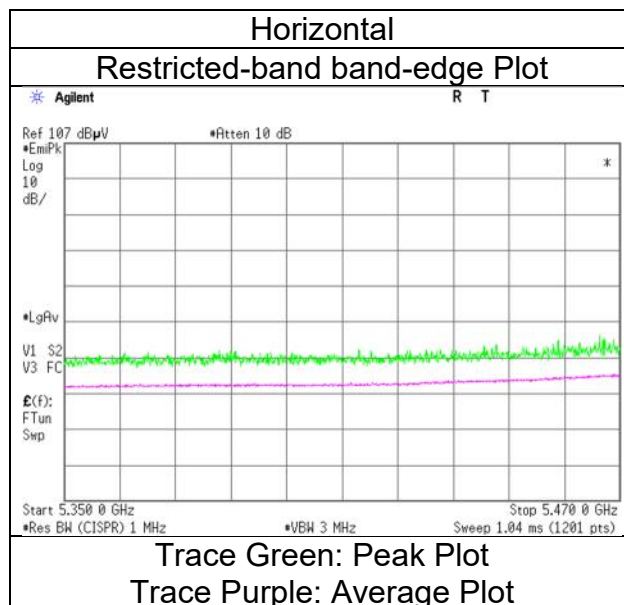
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 30 %RH
Takahiro Suzuki
Tx 11ax-80 (OFDM), 5530 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 30 %RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDM), 5610 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.55	32.63	17.53	43.42	2.49	57.78	-37.45	-27.0	10.4	207	110	-
Vert.	5725.000	PK	50.77	32.63	17.53	43.42	2.49	60.00	-35.23	-27.0	8.2	235	243	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

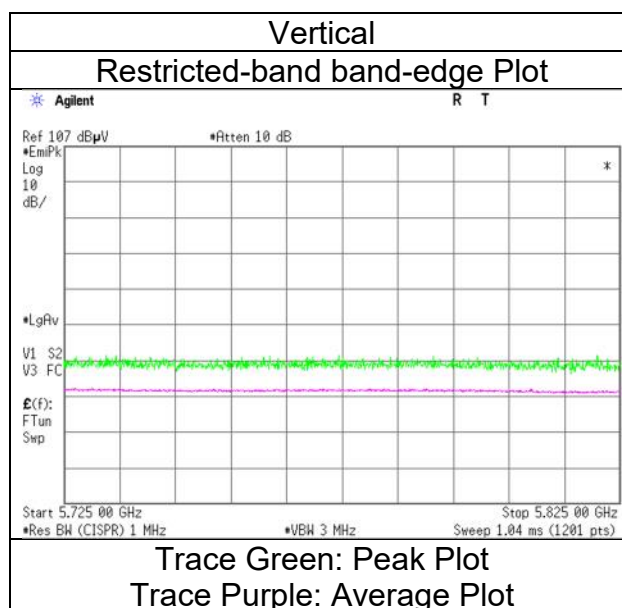
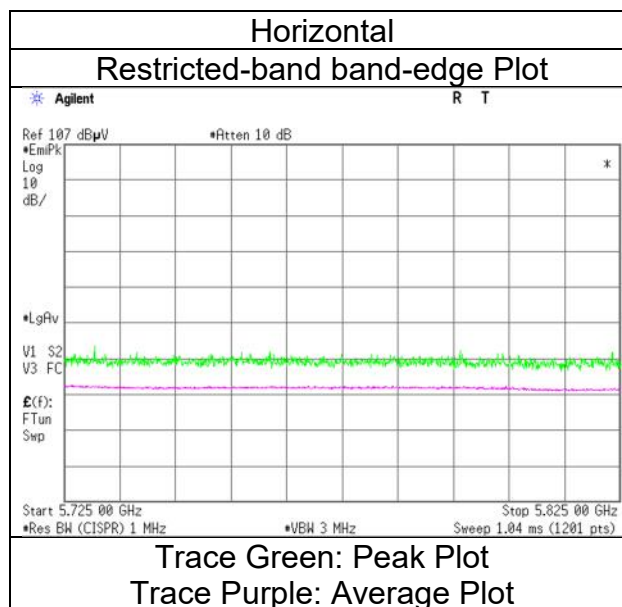
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 6, 2023
22 deg.C, 30 %RH
Takahiro Suzuki
Tx 11ax-80 (OFDM), 5610 MHz with DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 6, 2023
Temperature / Humidity 22 deg.C, 30 %RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ac-80, 5775 MHz with DH5 Hopping

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.66	32.44	17.50	43.44	2.49	58.65	-36.58	-27.0	9.5	195	122	-
Hori.	5700.000	PK	50.17	32.56	17.52	43.43	2.49	59.31	-35.92	10.0	45.9	195	122	-
Hori.	5720.000	PK	51.99	32.61	17.53	43.42	2.49	61.20	-34.03	15.6	49.6	195	122	-
Hori.	5725.000	PK	51.08	32.63	17.53	43.42	2.49	60.31	-34.92	27.0	61.9	195	122	-
Hori.	5850.000	PK	50.57	32.94	17.61	43.39	2.49	60.22	-35.01	27.0	62.0	195	122	-
Hori.	5855.000	PK	52.02	32.95	17.61	43.39	2.49	61.68	-33.55	15.6	49.1	195	122	-
Hori.	5875.000	PK	50.04	32.98	17.64	43.39	2.49	59.76	-35.47	10.0	45.4	195	122	-
Hori.	5925.000	PK	49.95	33.06	17.66	43.38	2.49	59.78	-35.45	-27.0	8.4	195	122	-
Vert.	5650.000	PK	50.72	32.44	17.50	43.44	2.49	59.71	-35.52	-27.0	8.5	198	237	-
Vert.	5700.000	PK	50.93	32.56	17.52	43.43	2.49	60.07	-35.16	10.0	45.1	198	237	-
Vert.	5720.000	PK	50.94	32.61	17.53	43.42	2.49	60.15	-35.08	15.6	50.6	198	237	-
Vert.	5725.000	PK	50.97	32.63	17.53	43.42	2.49	60.20	-35.03	27.0	62.0	198	237	-
Vert.	5850.000	PK	50.97	32.94	17.61	43.39	2.49	60.62	-34.61	27.0	61.6	198	237	-
Vert.	5855.000	PK	50.74	32.95	17.61	43.39	2.49	60.40	-34.83	15.6	50.4	198	237	-
Vert.	5875.000	PK	51.02	32.98	17.64	43.39	2.49	60.74	-34.49	10.0	44.4	198	237	-
Vert.	5925.000	PK	50.88	33.06	17.66	43.38	2.49	60.71	-34.52	-27.0	7.5	198	237	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (ERP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

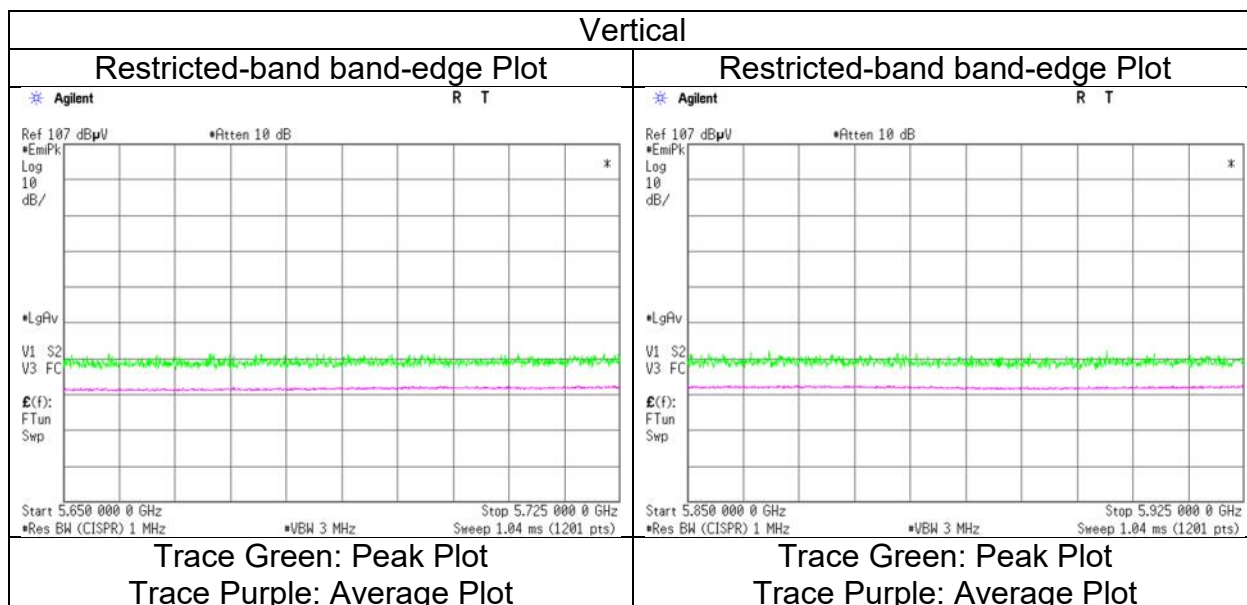
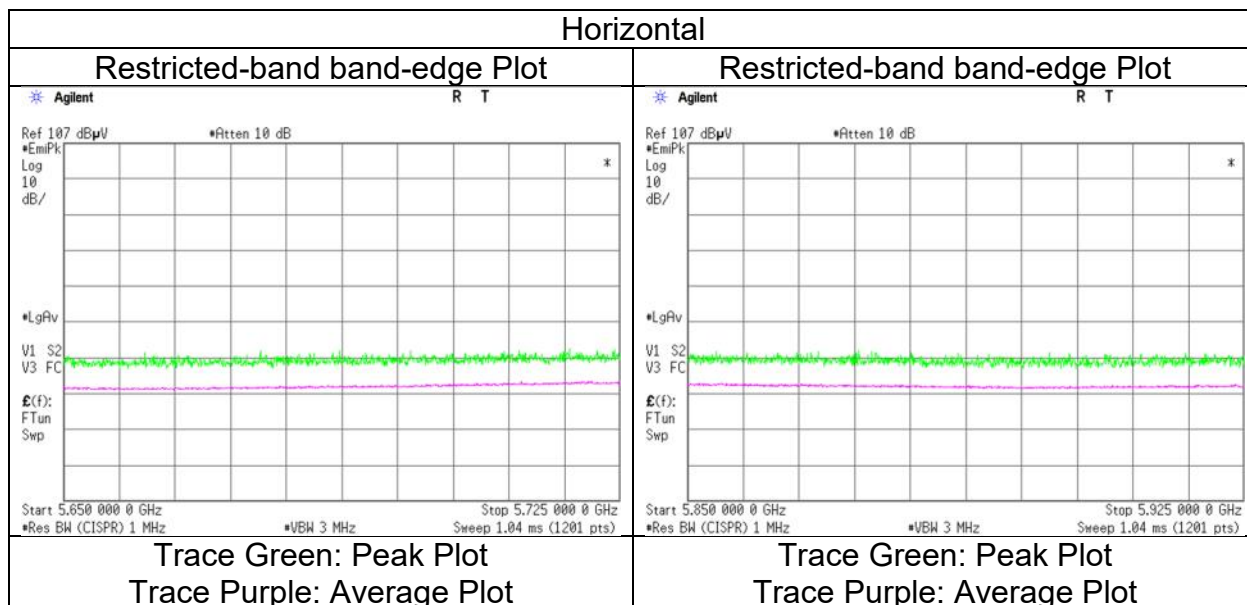
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

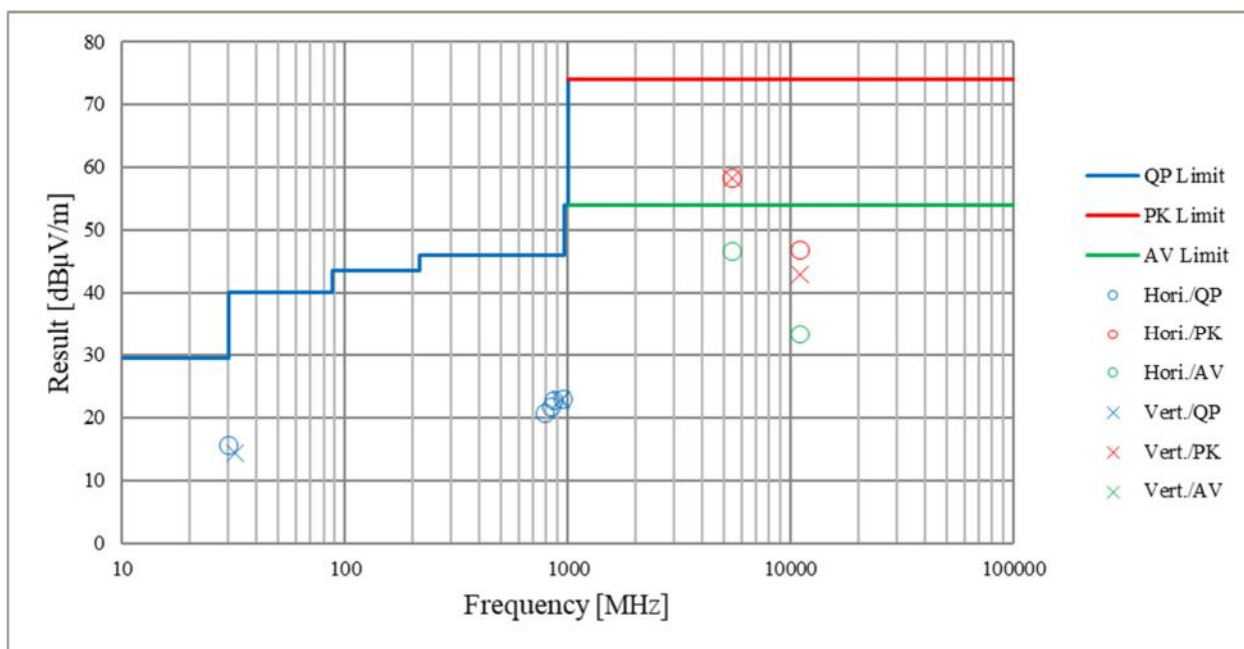
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 6, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ac-80, 5775 MHz with DH5 Hopping



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

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

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	3	3	3	3
Date	January 24, 2024	December 5, 2023	January 23, 2024	January 10, 2024
Temperature / Humidity	21 deg.C, 24 %RH	22 deg.C, 22 %RH	23 deg.C, 30 %RH	23 deg.C, 24 %RH
Engineer	Yosuke Murakami (30 MHz - 1 GHz)	AKihiro Oda (1 GHz - 6.4 GHz)	Kouki Yamada (6.4 GHz - 10 GHz, 18 GHz - 26.5 GHz)	Takayuki Kobayashi (10 GHz - 18 GHz)
Mode	Tx 11ax-40 (OFDM), 5510 MHz with DH5 Hopping			



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5180 MHz With DH5 Hopping

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.28	32.16	17.18	43.07	2.49	58.04	73.9	15.8	156	124	-
Hori.	5150.000	AV	36.30	32.16	17.18	43.07	2.49	45.06	53.9	8.8	156	124	VBW: 10 Hz
Vert.	5150.000	PK	49.07	32.16	17.18	43.07	2.49	57.83	73.9	16.0	225	149	-
Vert.	5150.000	AV	36.23	32.16	17.18	43.07	2.49	44.99	53.9	8.9	225	149	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

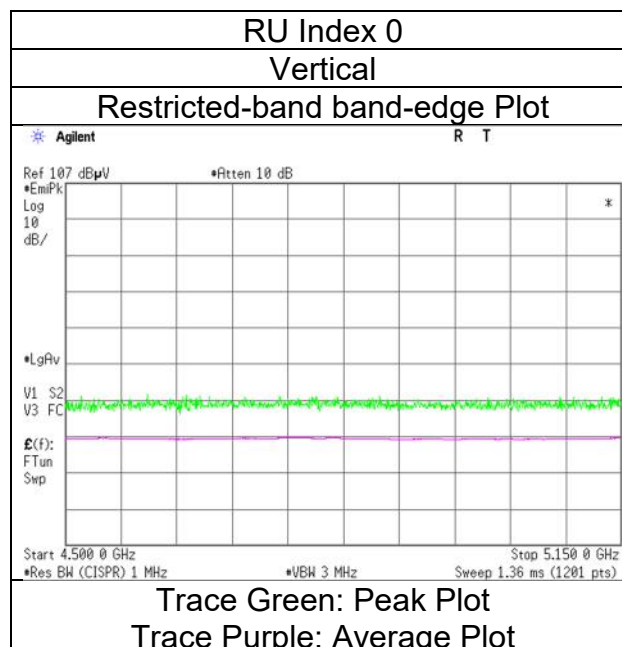
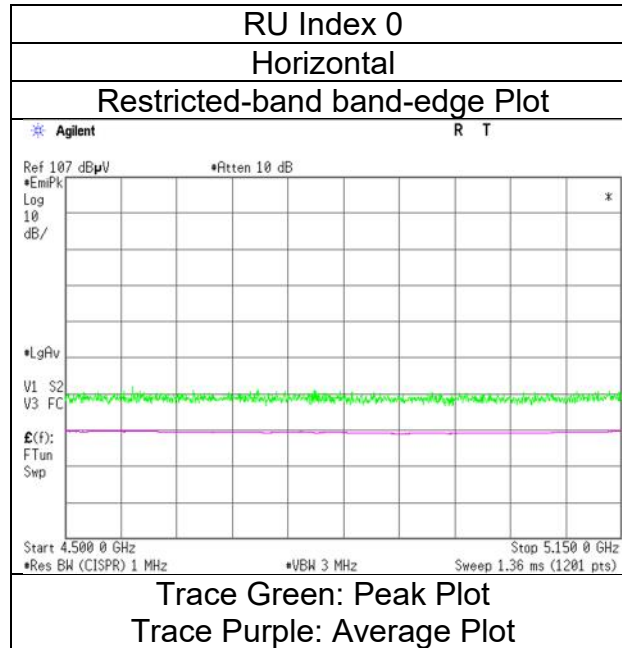
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 10, 2023
22 deg. C / 32 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU, 5180 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5180 MHz With DH5 Hopping

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.02	32.16	17.18	43.07	2.49	56.78	73.9	17.1	158	126	-
Hori.	5150.000	AV	36.20	32.16	17.18	43.07	2.49	44.96	53.9	8.9	158	126	VBW: 10 Hz
Vert.	5150.000	PK	48.45	32.16	17.18	43.07	2.49	57.21	73.9	16.6	225	151	-
Vert.	5150.000	AV	36.28	32.16	17.18	43.07	2.49	45.04	53.9	8.8	225	151	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

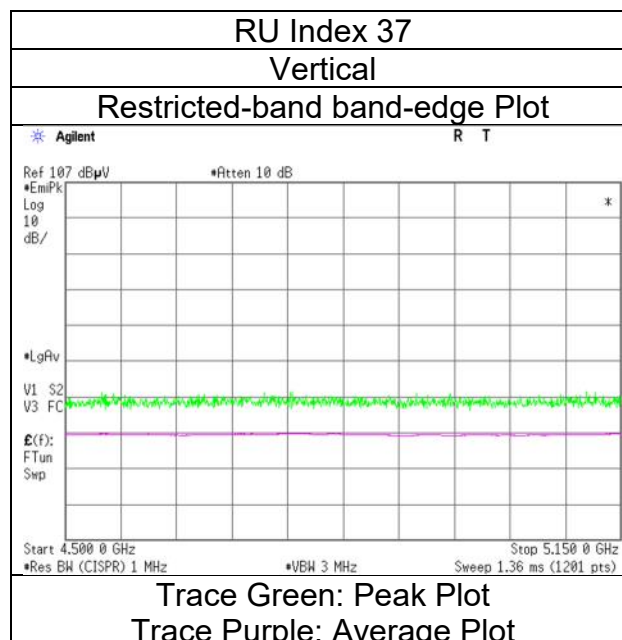
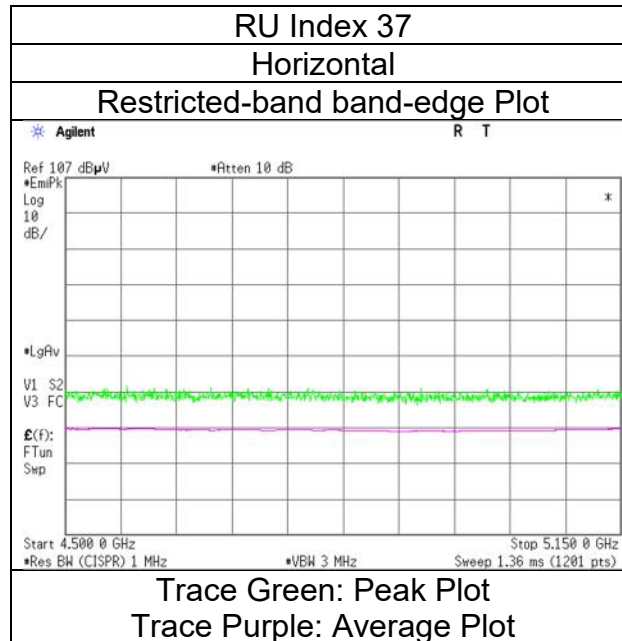
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 10, 2023
22 deg. C / 32 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU, 5180 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5180 MHz With DH5 Hopping

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.79	32.16	17.18	43.07	2.49	57.55	73.9	16.3	158	127	-
Hori.	5150.000	AV	36.28	32.16	17.18	43.07	2.49	45.04	53.9	8.8	158	127	VBW: 10 Hz
Vert.	5150.000	PK	48.80	32.16	17.18	43.07	2.49	57.56	73.9	16.3	230	148	-
Vert.	5150.000	AV	36.29	32.16	17.18	43.07	2.49	45.05	53.9	8.8	230	148	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

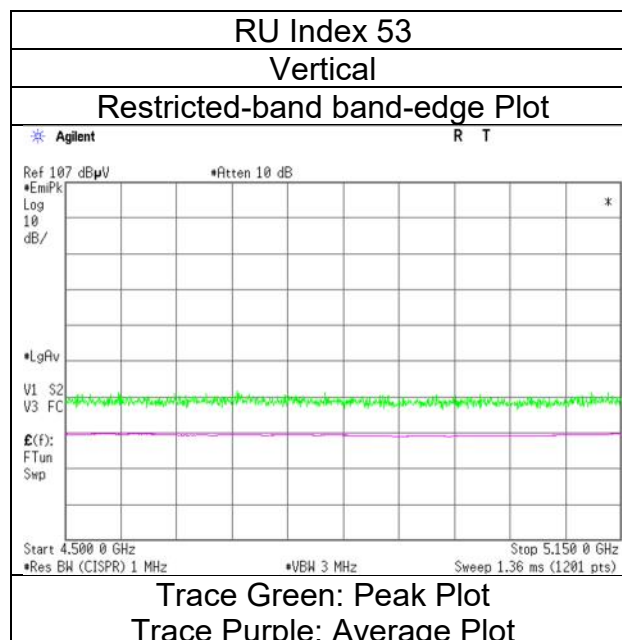
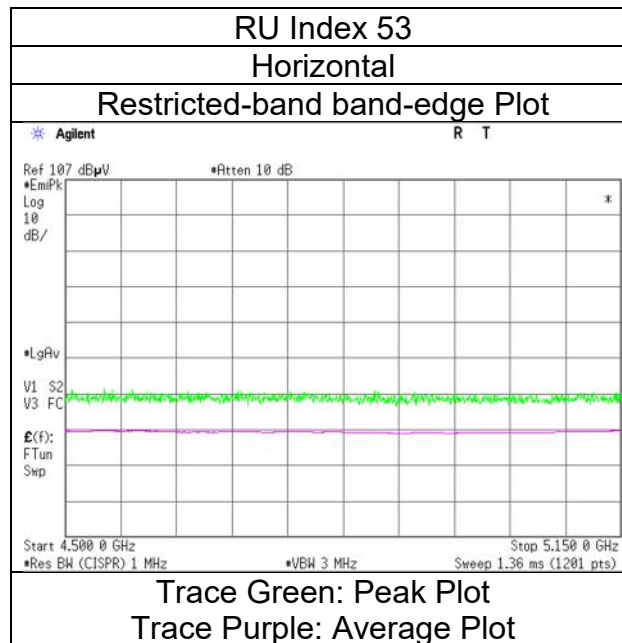
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 10, 2023
22 deg. C / 32 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU, 5180 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5180 MHz With DH5 Hopping

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.88	32.16	17.18	43.07	2.49	57.64	73.9	16.2	158	124	-
Hori.	5150.000	AV	36.42	32.16	17.18	43.07	2.49	45.18	53.9	8.7	158	124	VBW: 10 Hz
Vert.	5150.000	PK	48.98	32.16	17.18	43.07	2.49	57.74	73.9	16.1	224	151	-
Vert.	5150.000	AV	36.46	32.16	17.18	43.07	2.49	45.22	53.9	8.6	224	151	VBW: 10 Hz

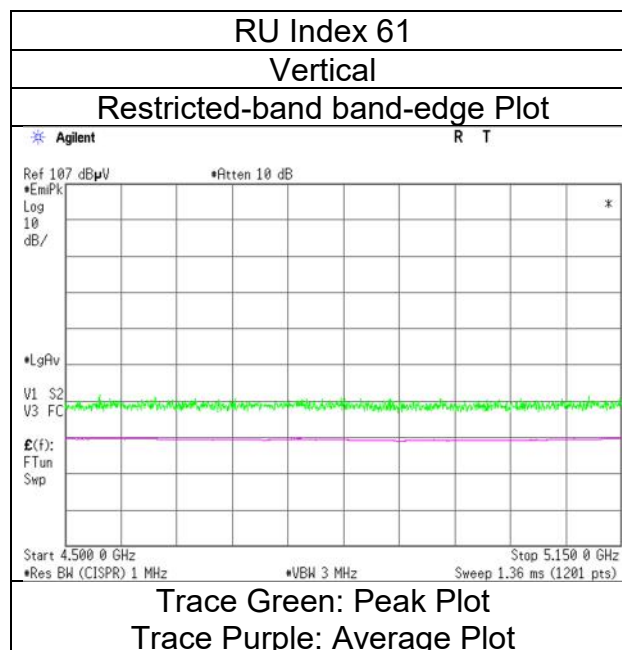
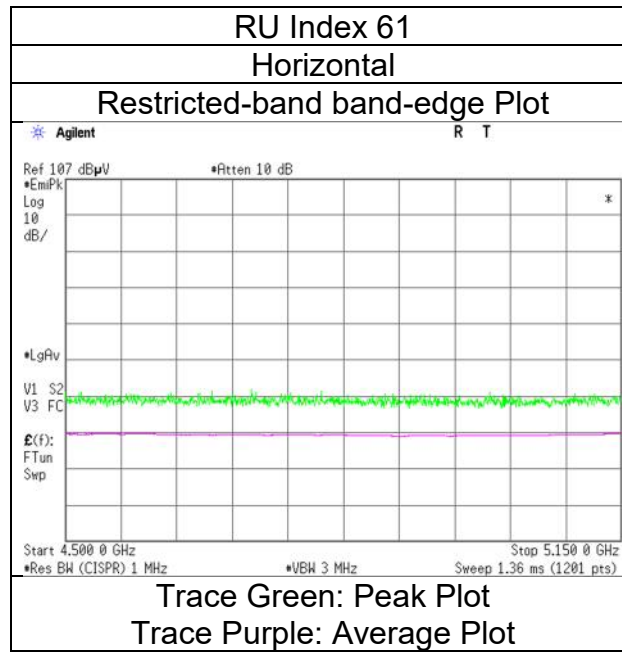
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5180 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5320 MHz With DH5 Hopping

RU Index 8

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.06	31.98	17.30	43.30	2.49	57.53	73.9	16.3	180	127	-
Hori.	5350.000	AV	36.65	31.98	17.30	43.30	2.49	45.12	53.9	8.7	180	127	VBW: 10 Hz
Vert.	5350.000	PK	48.86	31.98	17.30	43.30	2.49	57.33	73.9	16.5	138	299	-
Vert.	5350.000	AV	36.54	31.98	17.30	43.30	2.49	45.01	53.9	8.8	138	299	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

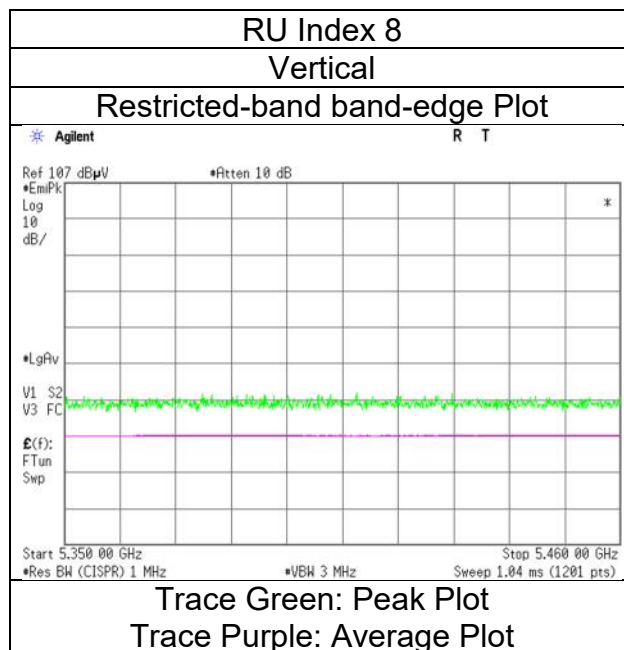
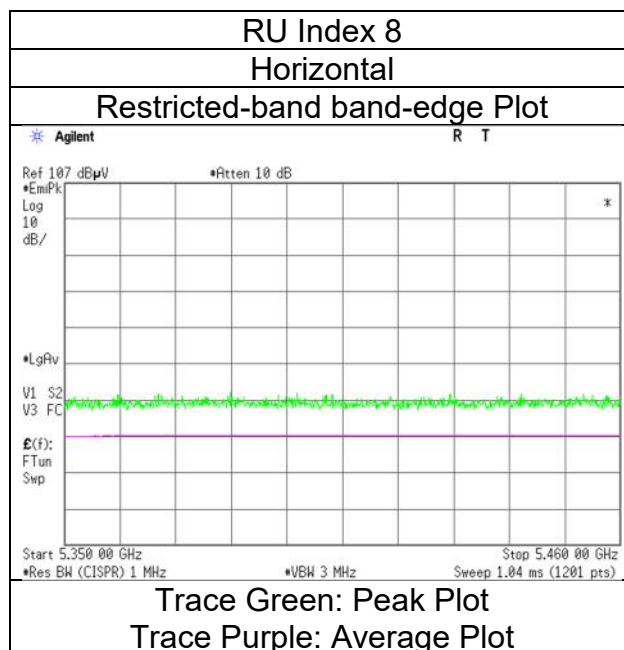
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 10, 2023
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5320 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5320 MHz With DH5 Hopping

RU Index 40

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.30	31.98	17.30	43.30	2.49	57.77	73.9	16.1	177	128	-
Hori.	5350.000	AV	36.62	31.98	17.30	43.30	2.49	45.09	53.9	8.8	177	128	VBW: 10 Hz
Vert.	5350.000	PK	49.36	31.98	17.30	43.30	2.49	57.83	73.9	16.0	133	298	-
Vert.	5350.000	AV	36.57	31.98	17.30	43.30	2.49	45.04	53.9	8.8	133	298	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

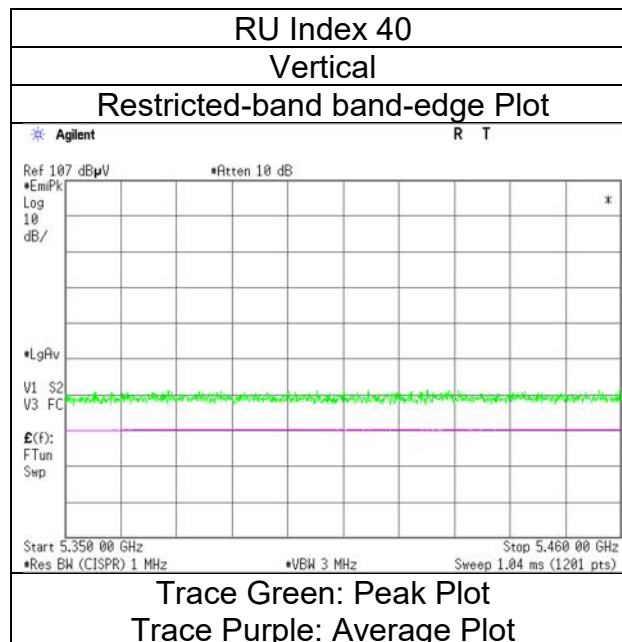
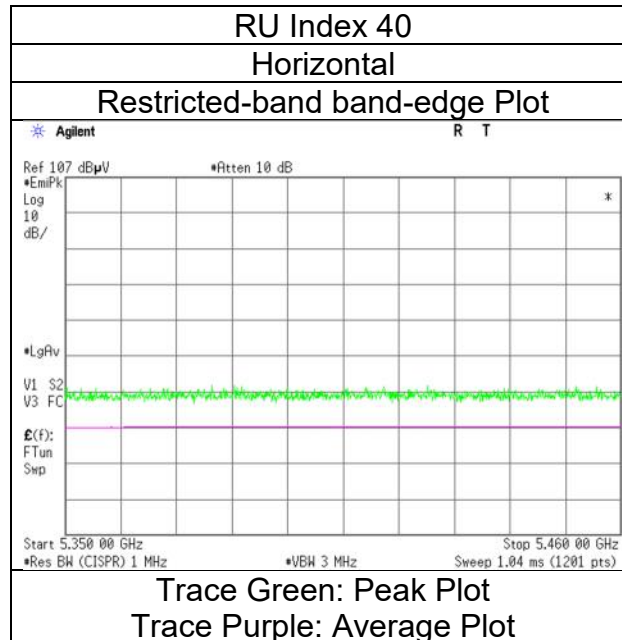
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 10, 2023
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5320 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5320 MHz With DH5 Hopping

RU Index 54

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.97	31.98	17.30	43.30	2.49	57.44	73.9	16.4	182	128	-
Hori.	5350.000	AV	36.67	31.98	17.30	43.30	2.49	45.14	53.9	8.7	182	128	VBW: 10 Hz
Vert.	5350.000	PK	49.17	31.98	17.30	43.30	2.49	57.64	73.9	16.2	140	298	-
Vert.	5350.000	AV	36.63	31.98	17.30	43.30	2.49	45.10	53.9	8.8	140	298	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

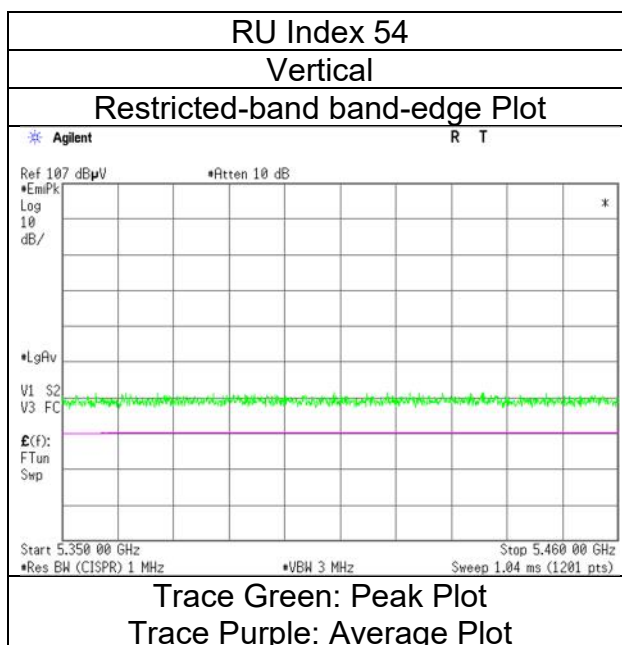
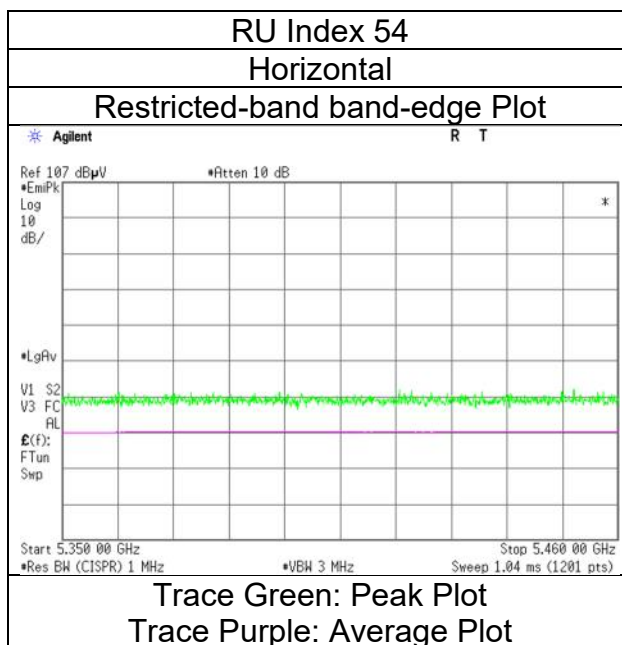
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 10, 2023
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5320 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 10, 2023
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Yosuke Murakami
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5320 MHz With DH5 Hopping

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.44	31.98	17.30	43.30	2.49	57.91	73.9	15.9	182	130	-
Hori.	5350.000	AV	37.05	31.98	17.30	43.30	2.49	45.52	53.9	8.3	182	130	VBW: 10 Hz
Vert.	5350.000	PK	49.27	31.98	17.30	43.30	2.49	57.74	73.9	16.1	138	299	-
Vert.	5350.000	AV	36.93	31.98	17.30	43.30	2.49	45.40	53.9	8.5	138	299	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

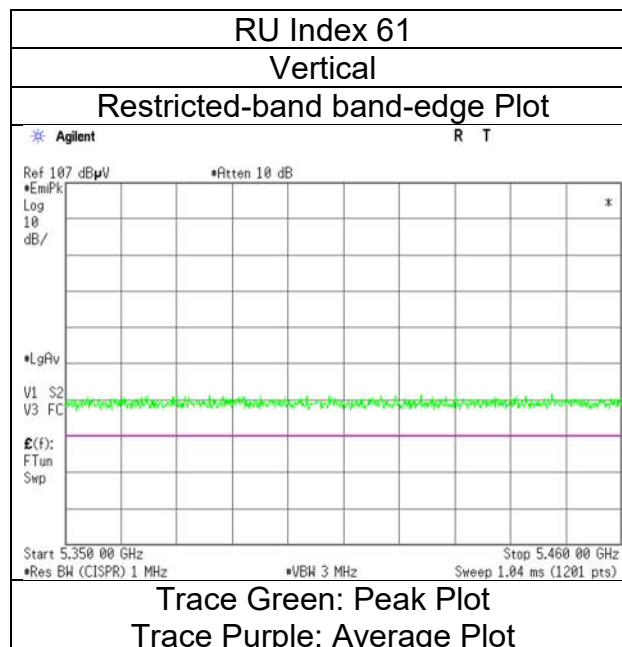
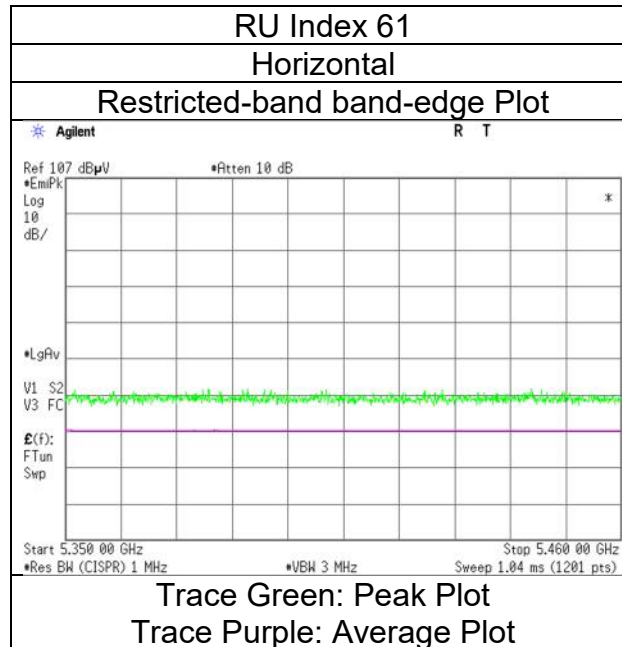
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 10, 2023
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5320 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5500 MHz With DH5 Hopping

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.63	32.24	16.82	44.29	2.49	57.89	73.9	16.0	139	117	-
Hori.	5460.000	AV	39.13	32.24	16.82	44.29	2.49	46.39	53.9	7.5	139	117	VBW:10 Hz
Vert.	5460.000	PK	51.76	32.24	16.82	44.29	2.49	59.02	73.9	14.8	100	62	-
Vert.	5460.000	AV	39.13	32.24	16.82	44.29	2.49	46.39	53.9	7.5	100	62	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.52	32.25	16.83	44.30	2.49	57.79	-37.44	-27.0	10.4	139	117	-
Vert.	5470.000	PK	51.32	32.25	16.83	44.30	2.49	58.59	-36.64	-27.0	9.6	100	62	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge} (\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge} (-6) * \text{Distance : 3 [m]})^2 / 30 * 10^{\wedge} 3)$

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

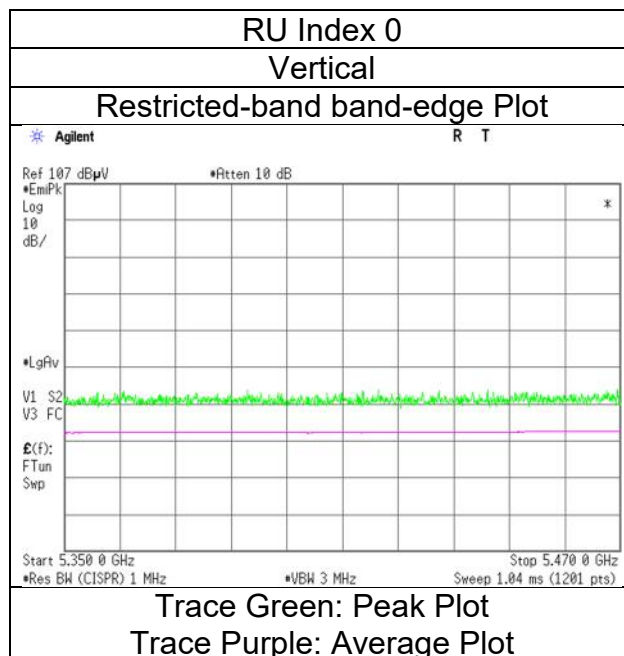
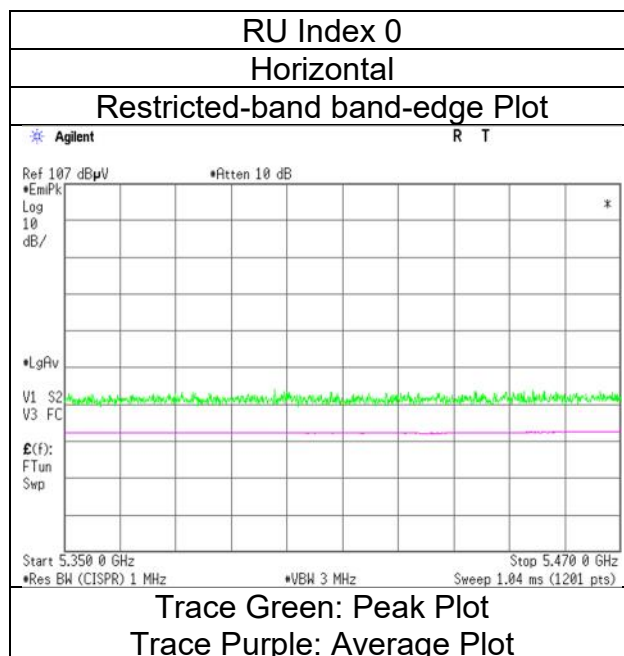
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-20 (OFDMA) 26-tone RU, 5500 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5500 MHz With DH5 Hopping

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.96	32.24	16.82	44.29	2.49	58.22	73.9	15.6	162	89	-
Hori.	5460.000	AV	39.34	32.24	16.82	44.29	2.49	46.60	53.9	7.3	162	89	VBW:10 Hz
Vert.	5460.000	PK	54.08	32.24	16.82	44.29	2.49	61.34	73.9	12.5	193	241	-
Vert.	5460.000	AV	39.19	32.24	16.82	44.29	2.49	46.45	53.9	7.4	193	241	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.06	32.25	16.83	44.30	2.49	58.33	-36.90	-27.0	9.9	162	89	-
Vert.	5470.000	PK	52.13	32.25	16.83	44.30	2.49	59.40	-35.83	-27.0	8.8	193	241	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge} (\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge} (-6) * \text{Distance} : 3\text{ [m]})^2 / 30 * 10^{\wedge} 3)$

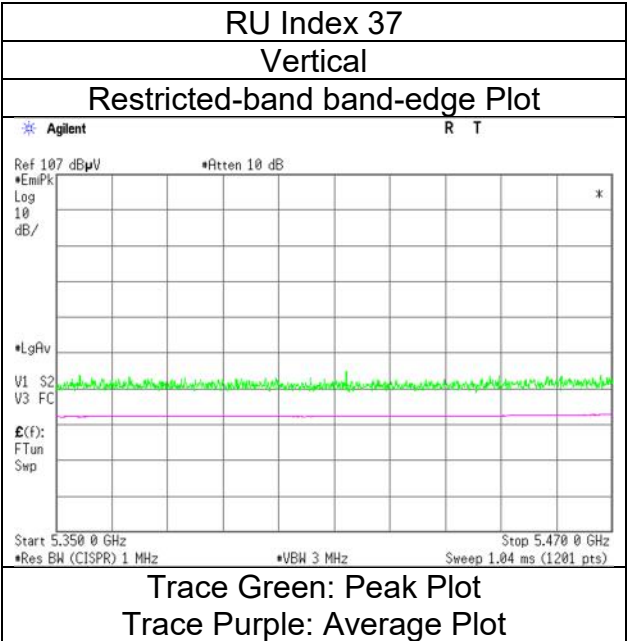
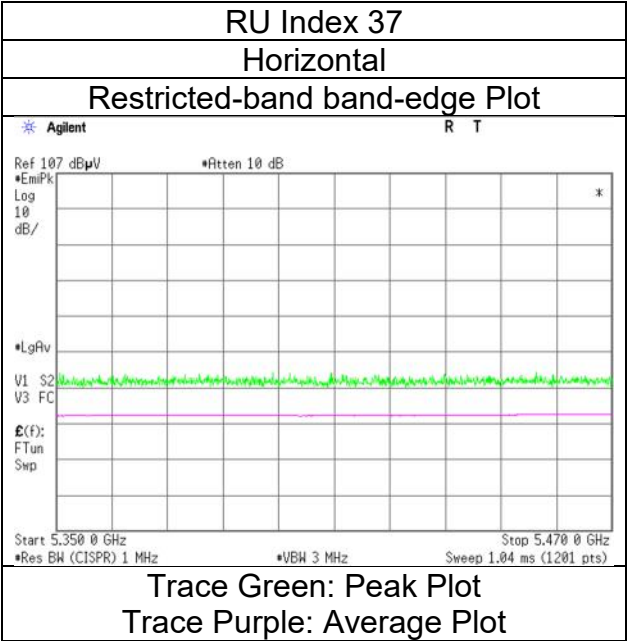
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5500 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5500 MHz With DH5 Hopping

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.13	32.24	16.82	44.29	2.49	58.39	73.9	15.5	120	122	-
Hori.	5460.000	AV	39.19	32.24	16.82	44.29	2.49	46.45	53.9	7.4	120	122	VBW:10 Hz
Vert.	5460.000	PK	52.11	32.24	16.82	44.29	2.49	59.37	73.9	14.5	228	232	-
Vert.	5460.000	AV	39.11	32.24	16.82	44.29	2.49	46.37	53.9	7.5	228	232	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.86	32.25	16.83	44.30	2.49	58.13	-37.10	-27.0	10.1	120	122	-
Vert.	5470.000	PK	51.34	32.25	16.83	44.30	2.49	58.61	-36.62	-27.0	9.6	228	232	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge} (\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge} (-6) * \text{Distance} : 3\text{ [m]})^2 / 30 * 10^{\wedge} 3)$

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

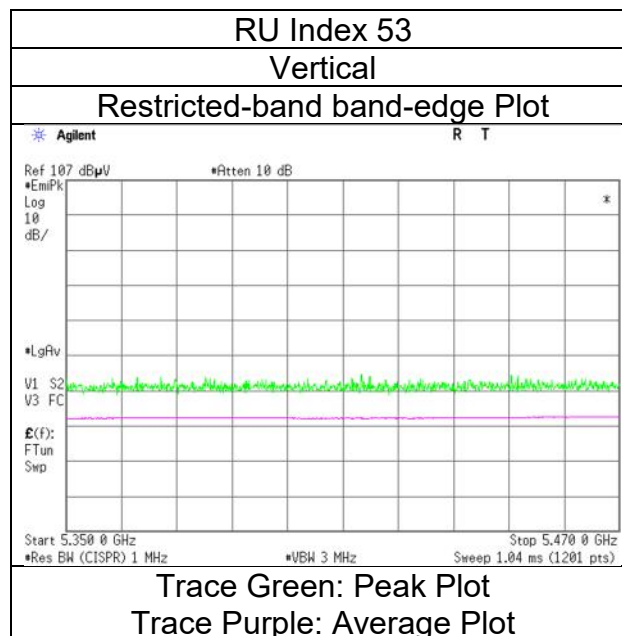
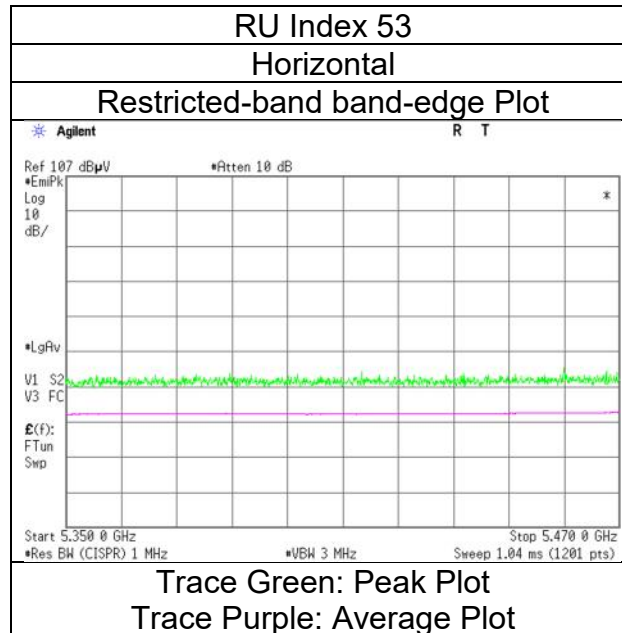
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-20 (OFDMA) 106-tone RU, 5500 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5500 MHz With DH5 Hopping

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.36	32.24	16.82	44.29	2.49	57.62	73.9	16.2	157	93	-
Hori.	5460.000	AV	39.24	32.24	16.82	44.29	2.49	46.50	53.9	7.4	157	93	VBW:10 Hz
Vert.	5460.000	PK	51.41	32.24	16.82	44.29	2.49	58.67	73.9	15.2	238	235	-
Vert.	5460.000	AV	39.24	32.24	16.82	44.29	2.49	46.50	53.9	7.4	238	235	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.49	32.25	16.83	44.30	2.49	58.76	-36.47	-27.0	9.4	157	93	-
Vert.	5470.000	PK	51.80	32.25	16.83	44.30	2.49	59.07	-36.16	-27.0	9.1	238	235	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge} (\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge} (-6) * \text{Distance} : 3 [\text{m}])^2 / 30 * 10^{\wedge} 3)$

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

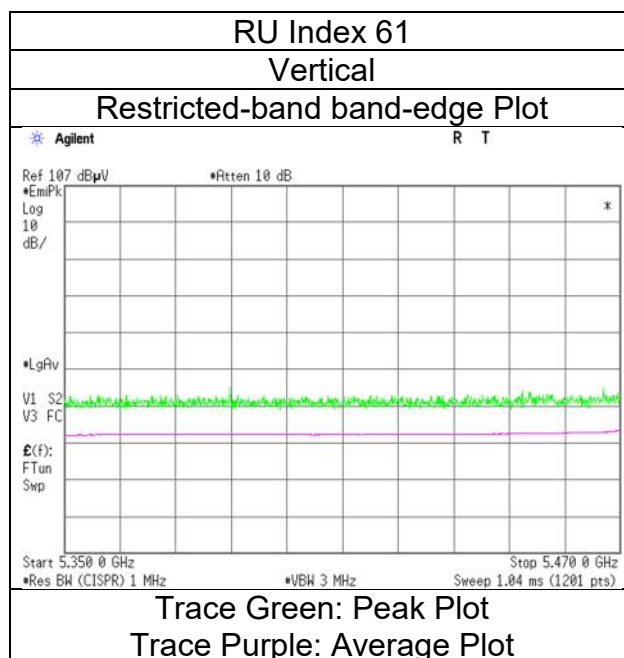
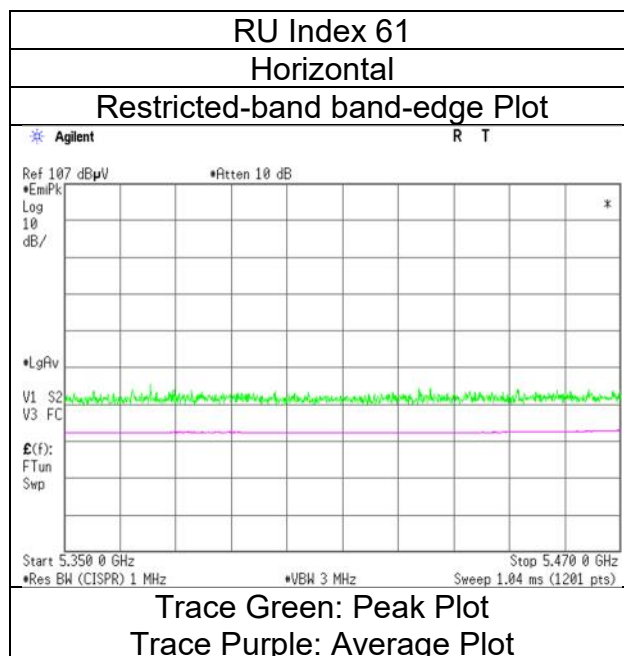
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-20 (OFDMA) 242-tone RU, 5500 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5700 MHz With DH5 Hopping

RU Index 8

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.25	32.63	16.97	44.33	2.49	58.01	-37.22	-27.0	10.2	166	118	-
Vert.	5725.000	PK	50.53	32.63	16.97	44.33	2.49	58.29	-36.94	-27.0	9.9	119	282	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

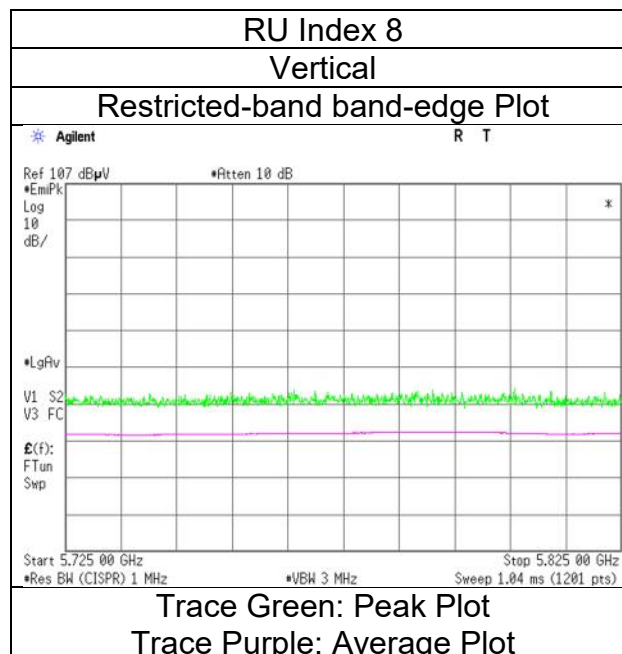
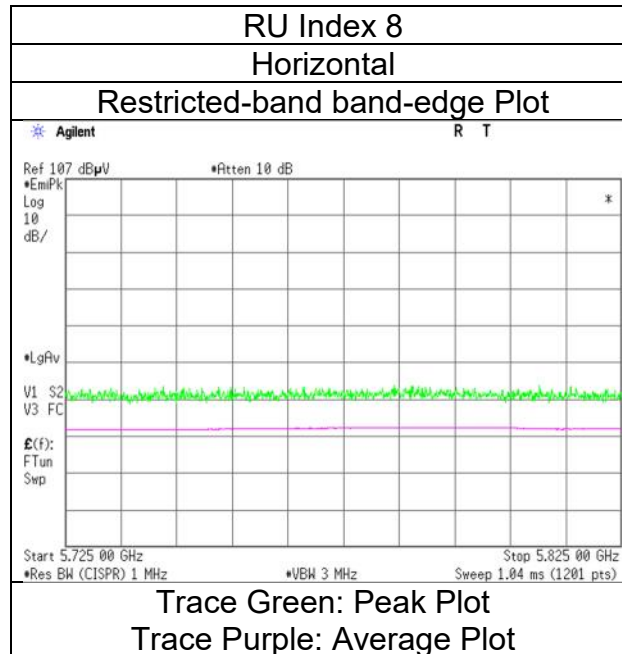
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5700 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5700 MHz With DH5 Hopping

RU Index 40

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.69	32.63	16.97	44.33	2.49	58.45	-36.78	-27.0	9.7	149	120	-
Vert.	5725.000	PK	50.18	32.63	16.97	44.33	2.49	57.94	-37.29	-27.0	10.2	186	274	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

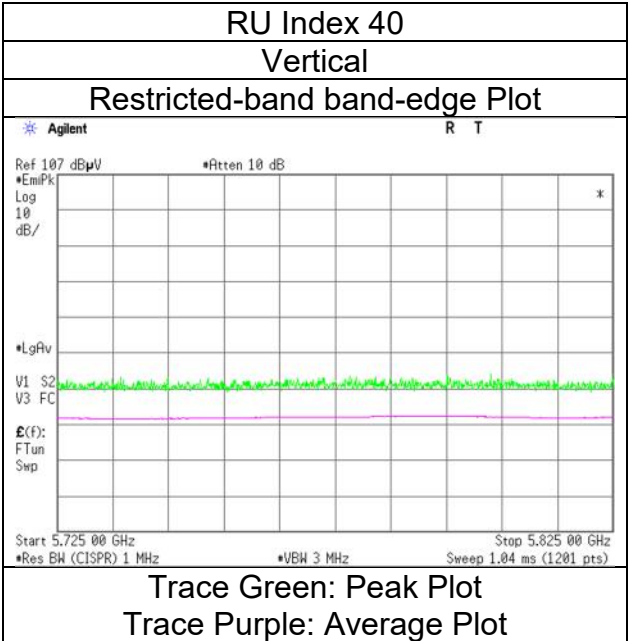
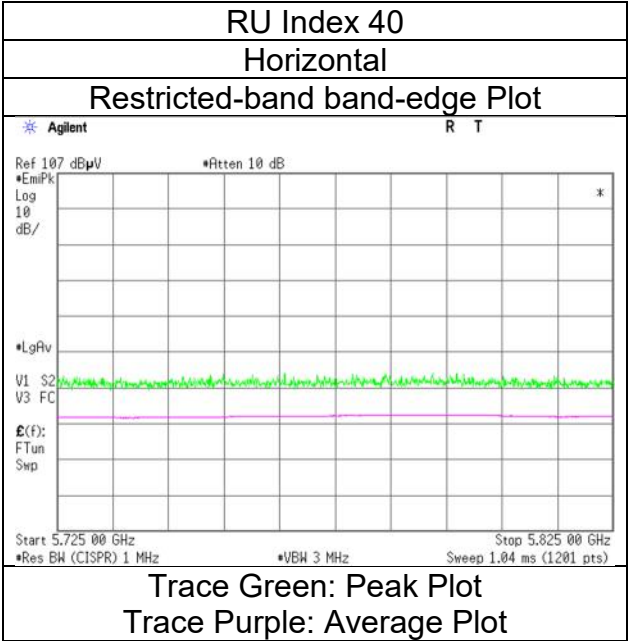
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5700 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5700 MHz With DH5 Hopping

RU Index 54

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.81	32.63	16.97	44.33	2.49	58.57	-36.66	-27.0	9.6	161	121	-
Vert.	5725.000	PK	51.39	32.63	16.97	44.33	2.49	59.15	-36.08	-27.0	9.0	219	236	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

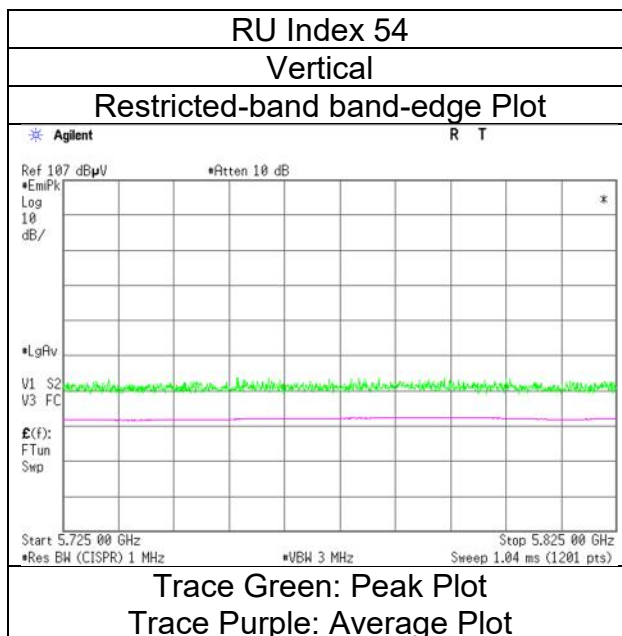
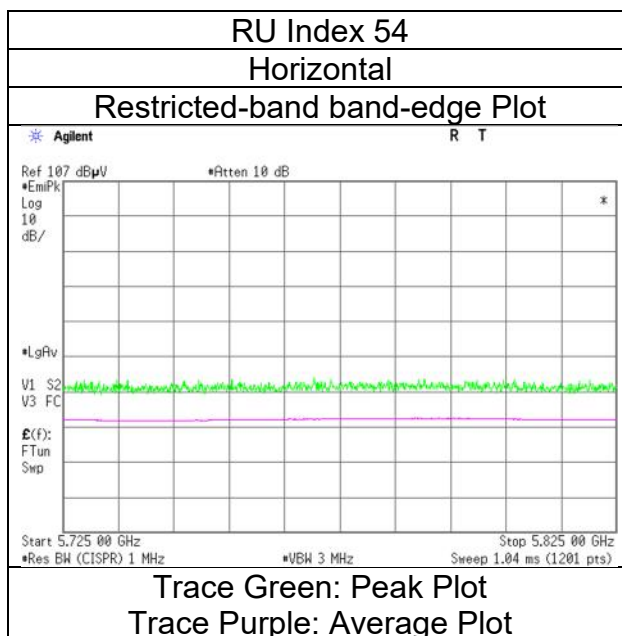
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5700 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5700 MHz With DH5 Hopping

RU Index 61

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.21	32.63	16.97	44.33	2.49	57.97	-37.26	-27.0	10.2	133	122	-
Vert.	5725.000	PK	51.16	32.63	16.97	44.33	2.49	58.92	-36.31	-27.0	9.3	208	236	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

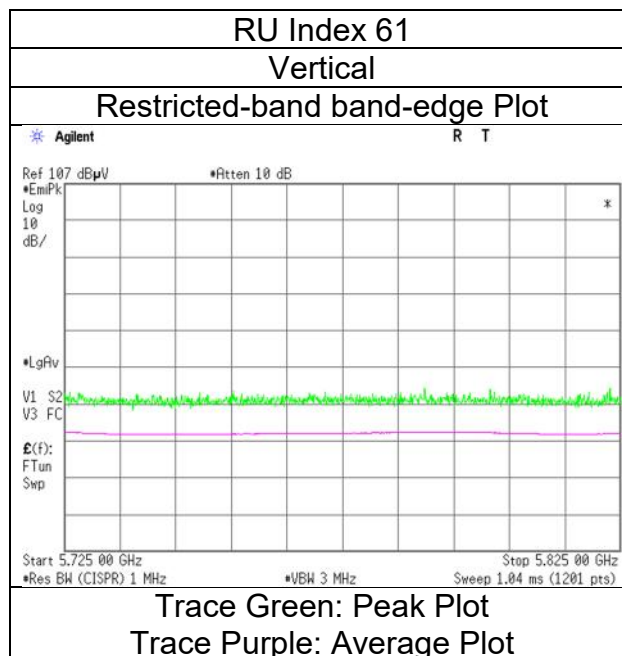
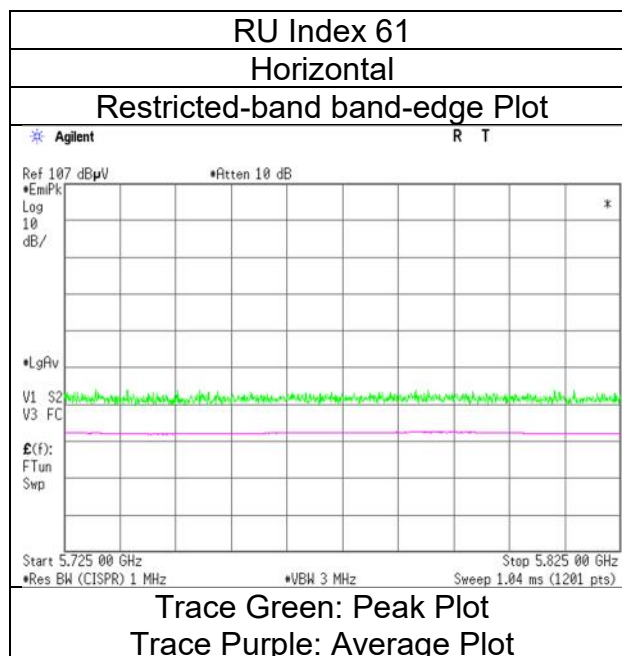
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5700 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 15, 2023
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5745 MHz With DH5 Hopping

RU Index 0

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.86	32.44	17.50	43.44	2.49	57.85	-37.38	-27.0	10.3	182	119	-
Hori.	5700.000	PK	48.38	32.56	17.52	43.43	2.49	57.52	-37.71	10.0	47.7	182	119	-
Hori.	5720.000	PK	48.53	32.61	17.53	43.42	2.49	57.74	-37.49	15.6	53.0	182	119	-
Hori.	5725.000	PK	48.41	32.63	17.53	43.42	2.49	57.64	-37.59	27.0	64.5	182	119	-
Vert.	5650.000	PK	48.89	32.44	17.50	43.44	2.49	57.88	-37.35	-27.0	10.3	102	298	-
Vert.	5700.000	PK	48.94	32.56	17.52	43.43	2.49	58.08	-37.15	10.0	47.1	102	298	-
Vert.	5720.000	PK	48.37	32.61	17.53	43.42	2.49	57.58	-37.65	15.6	53.2	102	298	-
Vert.	5725.000	PK	48.32	32.63	17.53	43.42	2.49	57.55	-37.68	27.0	64.6	102	298	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

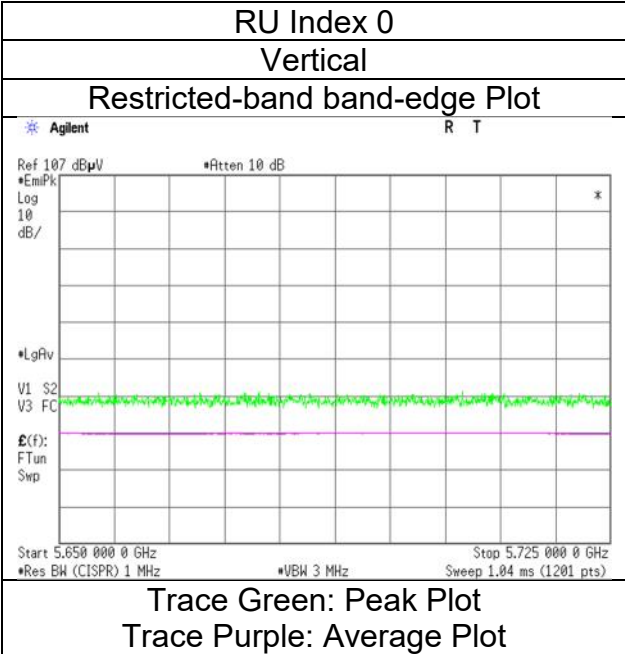
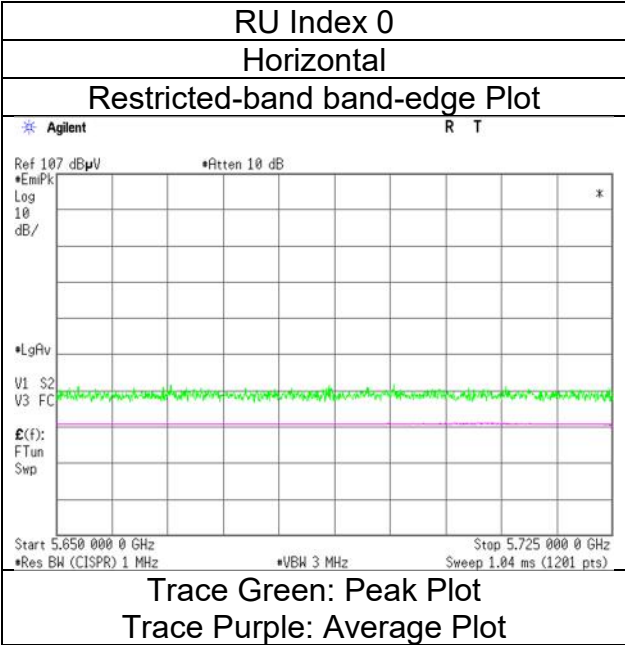
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg. C / 30 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5745 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 15, 2023
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5745 MHz With DH5 Hopping

RU Index 37

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.20	32.44	17.50	43.44	2.49	57.19	-38.04	-27.0	11.0	160	117	-
Hori.	5700.000	PK	50.10	32.56	17.52	43.43	2.49	59.24	-35.99	10.0	45.9	160	117	-
Hori.	5720.000	PK	48.67	32.61	17.53	43.42	2.49	57.88	-37.35	15.6	52.9	160	117	-
Hori.	5725.000	PK	49.17	32.63	17.53	43.42	2.49	58.40	-36.83	27.0	63.8	160	117	-
Vert.	5650.000	PK	48.02	32.44	17.50	43.44	2.49	57.01	-38.22	-27.0	11.2	103	301	-
Vert.	5700.000	PK	48.86	32.56	17.52	43.43	2.49	58.00	-37.23	10.0	47.2	103	301	-
Vert.	5720.000	PK	47.82	32.61	17.53	43.42	2.49	57.03	-38.20	15.6	53.8	103	301	-
Vert.	5725.000	PK	48.64	32.63	17.53	43.42	2.49	57.87	-37.36	27.0	64.3	103	301	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

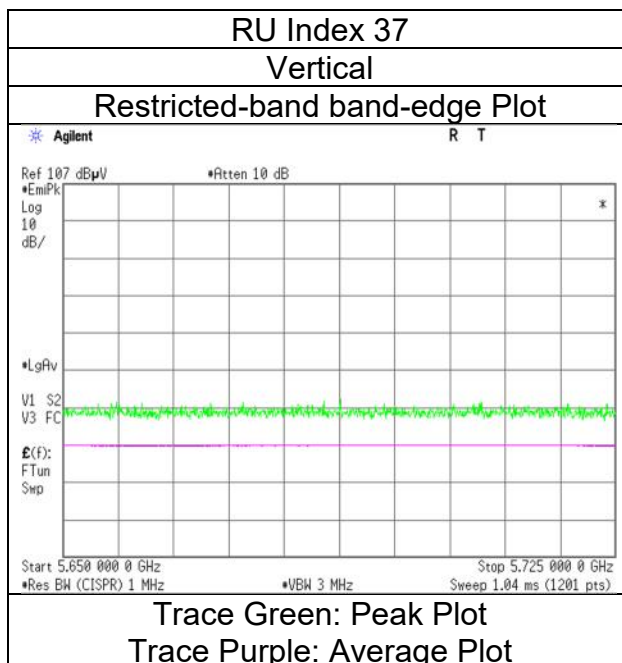
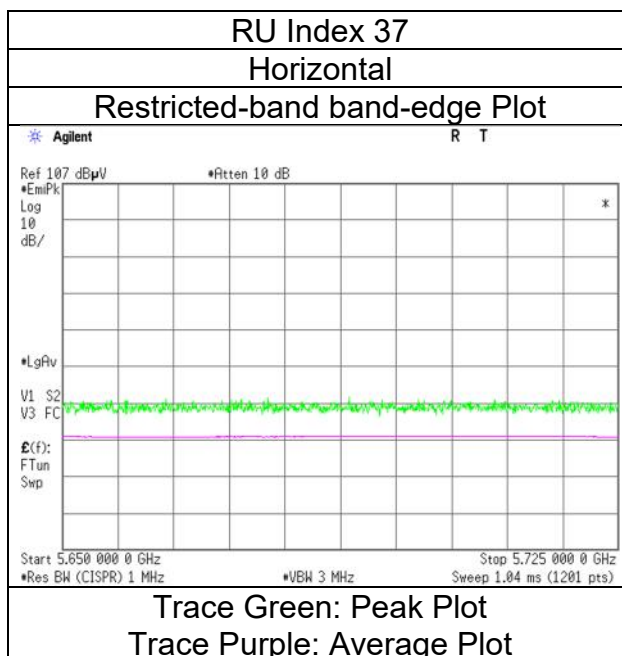
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg. C / 30 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5745 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5745 MHz With DH5 Hopping

RU Index 53

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.30	32.44	17.50	43.44	2.49	57.29	-37.94	-27.0	10.9	151	129	-
Hori.	5700.000	PK	48.54	32.56	17.52	43.43	2.49	57.68	-37.55	10.0	47.5	151	129	-
Hori.	5720.000	PK	48.63	32.61	17.53	43.42	2.49	57.84	-37.39	15.6	52.9	151	129	-
Hori.	5725.000	PK	48.82	32.63	17.53	43.42	2.49	58.05	-37.18	27.0	64.1	151	129	-
Vert.	5650.000	PK	48.48	32.44	17.50	43.44	2.49	57.47	-37.76	-27.0	10.7	242	257	-
Vert.	5700.000	PK	48.62	32.56	17.52	43.43	2.49	57.76	-37.47	10.0	47.4	242	257	-
Vert.	5720.000	PK	48.63	32.61	17.53	43.42	2.49	57.84	-37.39	15.6	52.9	242	257	-
Vert.	5725.000	PK	48.63	32.63	17.53	43.42	2.49	57.86	-37.37	27.0	64.3	242	257	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

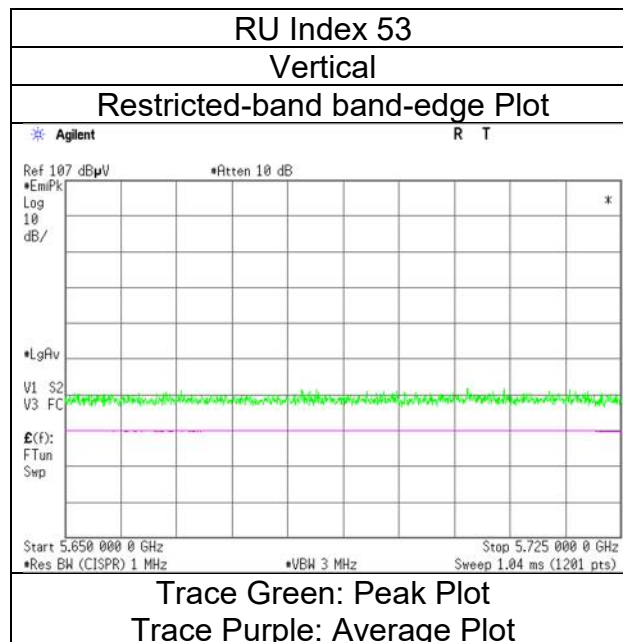
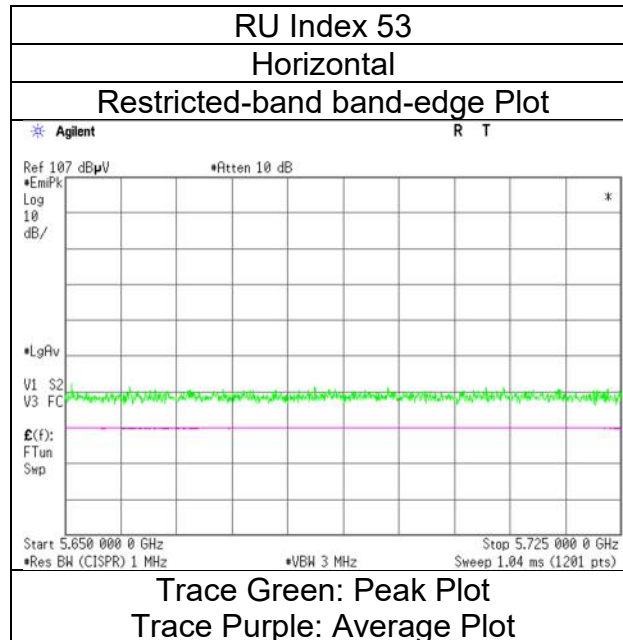
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 17, 2023
Temperature / Humidity	22 deg. C / 36 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5745 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5745 MHz With DH5 Hopping

RU Index 61

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.13	32.44	17.50	43.44	2.49	58.12	-37.11	-27.0	10.1	151	128	-
Hori.	5700.000	PK	48.90	32.56	17.52	43.43	2.49	58.04	-37.19	10.0	47.1	151	128	-
Hori.	5720.000	PK	49.89	32.61	17.53	43.42	2.49	59.10	-36.13	15.6	51.7	151	128	-
Hori.	5725.000	PK	49.36	32.63	17.53	43.42	2.49	58.59	-36.64	27.0	63.6	151	128	-
Vert.	5650.000	PK	47.99	32.44	17.50	43.44	2.49	56.98	-38.25	-27.0	11.2	212	254	-
Vert.	5700.000	PK	48.87	32.56	17.52	43.43	2.49	58.01	-37.22	10.0	47.2	212	254	-
Vert.	5720.000	PK	49.36	32.61	17.53	43.42	2.49	58.57	-36.66	15.6	52.2	212	254	-
Vert.	5725.000	PK	49.25	32.63	17.53	43.42	2.49	58.48	-36.75	27.0	63.7	212	254	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

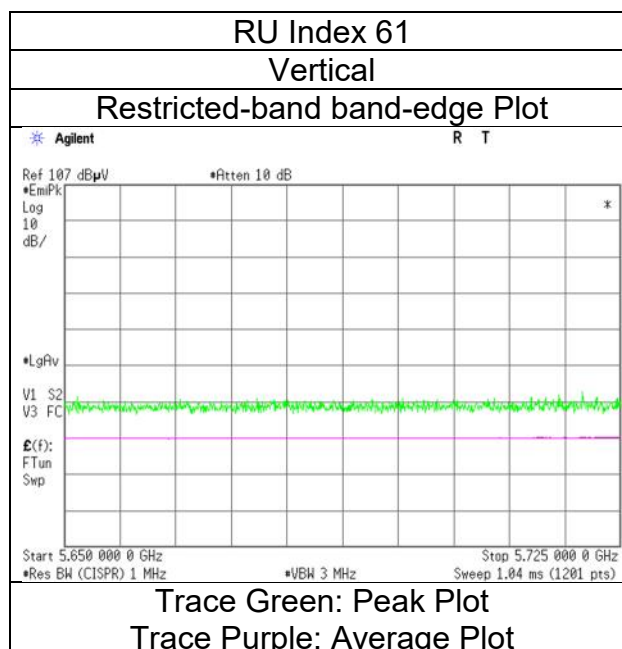
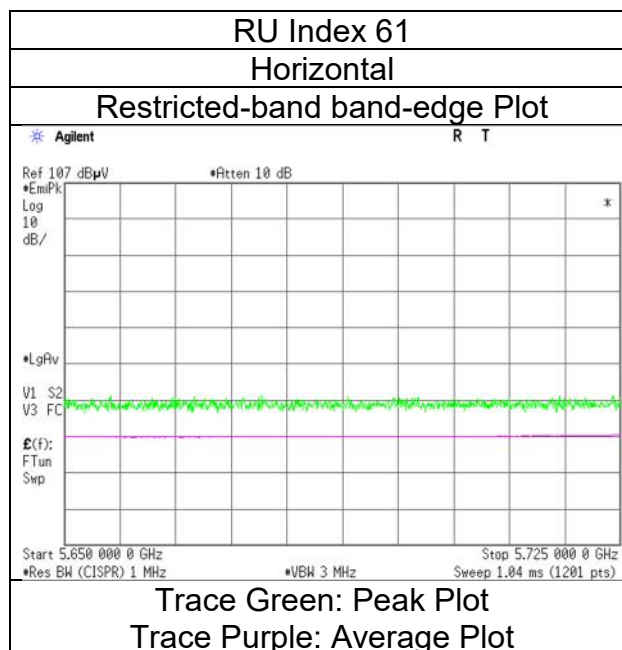
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 17, 2023
Temperature / Humidity	22 deg. C / 36 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5745 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 15, 2023
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5825 MHz With DH5 Hopping

RU Index 8

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.65	32.94	17.61	43.39	2.49	58.30	-36.93	27.0	63.9	149	239	-
Hori.	5855.000	PK	48.48	32.95	17.61	43.39	2.49	58.14	-37.09	15.6	52.6	149	239	-
Hori.	5875.000	PK	49.42	32.98	17.64	43.39	2.49	59.14	-36.09	10.0	46.0	149	239	-
Hori.	5925.000	PK	48.82	33.06	17.66	43.38	2.49	58.65	-36.58	-27.0	9.5	149	239	-
Vert.	5850.000	PK	48.96	32.94	17.61	43.39	2.49	58.61	-36.62	27.0	63.6	165	258	-
Vert.	5855.000	PK	48.82	32.95	17.61	43.39	2.49	58.48	-36.75	15.6	52.3	165	258	-
Vert.	5875.000	PK	48.43	32.98	17.64	43.39	2.49	58.15	-37.08	10.0	47.0	165	258	-
Vert.	5925.000	PK	48.66	33.06	17.66	43.38	2.49	58.49	-36.74	-27.0	9.7	165	258	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

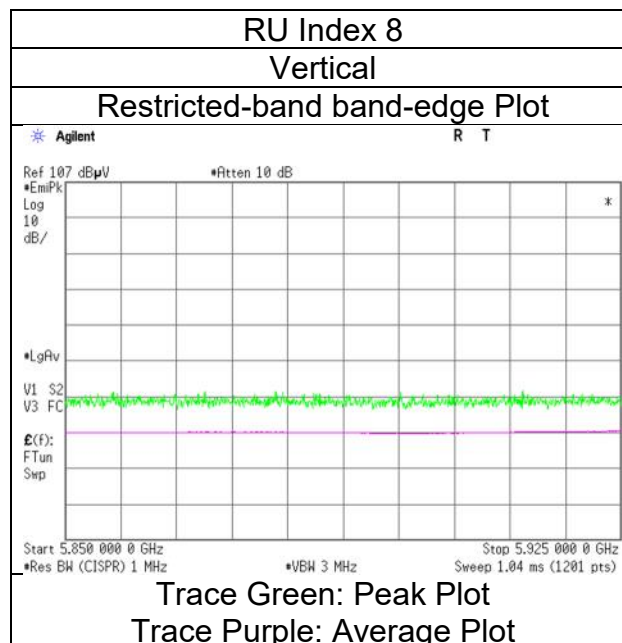
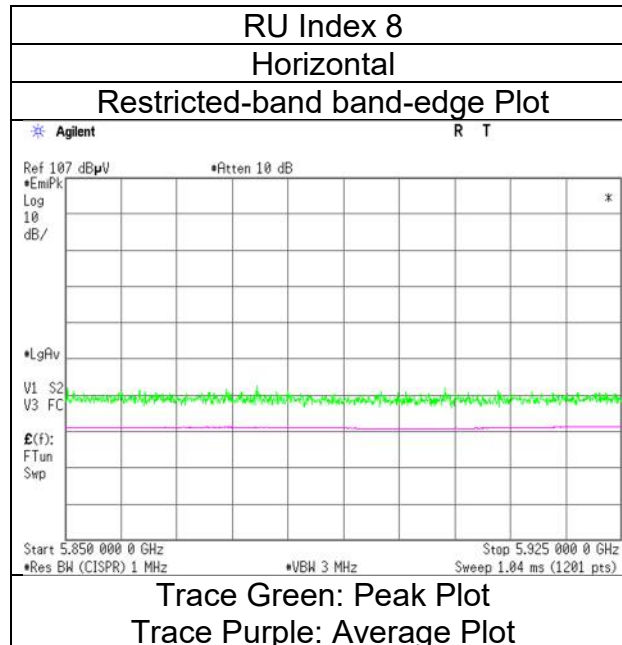
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg. C / 30 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5825 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5825 MHz With DH5 Hopping

RU Index 40

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.47	32.94	17.61	43.39	2.49	59.12	-36.11	27.0	63.1	176	127	-
Hori.	5855.000	PK	49.21	32.95	17.61	43.39	2.49	58.87	-36.36	15.6	51.9	176	127	-
Hori.	5875.000	PK	49.01	32.98	17.64	43.39	2.49	58.73	-36.50	10.0	46.5	176	127	-
Hori.	5925.000	PK	49.07	33.06	17.66	43.38	2.49	58.90	-36.33	-27.0	9.3	176	127	-
Vert.	5850.000	PK	48.80	32.94	17.61	43.39	2.49	58.45	-36.78	27.0	63.7	112	296	-
Vert.	5855.000	PK	48.83	32.95	17.61	43.39	2.49	58.49	-36.74	15.6	52.3	112	296	-
Vert.	5875.000	PK	48.68	32.98	17.64	43.39	2.49	58.40	-36.83	10.0	46.8	112	296	-
Vert.	5925.000	PK	49.03	33.06	17.66	43.38	2.49	58.86	-36.37	-27.0	9.3	112	296	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

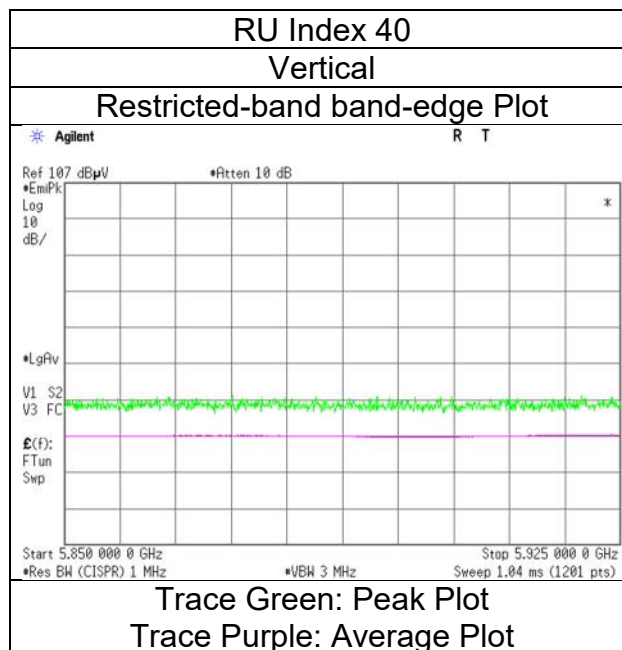
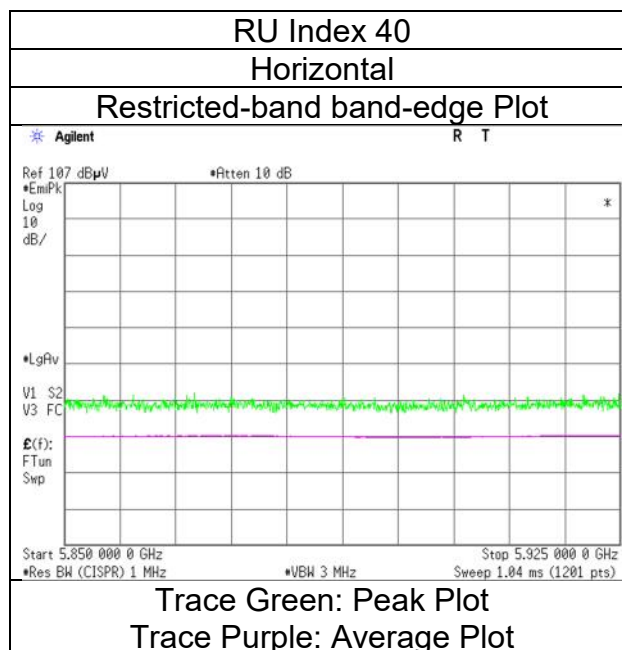
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 17, 2023
Temperature / Humidity	22 deg. C / 36 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5825 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5825 MHz With DH5 Hopping

RU Index 54

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.72	32.94	17.61	43.39	2.49	58.37	-36.86	27.0	63.8	176	129	-
Hori.	5855.000	PK	48.65	32.95	17.61	43.39	2.49	58.31	-36.92	15.6	52.5	176	129	-
Hori.	5875.000	PK	49.01	32.98	17.64	43.39	2.49	58.73	-36.50	10.0	46.5	176	129	-
Hori.	5925.000	PK	49.12	33.06	17.66	43.38	2.49	58.95	-36.28	-27.0	9.2	176	129	-
Vert.	5850.000	PK	48.61	32.94	17.61	43.39	2.49	58.26	-36.97	27.0	63.9	143	254	-
Vert.	5855.000	PK	49.19	32.95	17.61	43.39	2.49	58.85	-36.38	15.6	51.9	143	254	-
Vert.	5875.000	PK	49.02	32.98	17.64	43.39	2.49	58.74	-36.49	10.0	46.4	143	254	-
Vert.	5925.000	PK	48.85	33.06	17.66	43.38	2.49	58.68	-36.55	-27.0	9.5	143	254	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

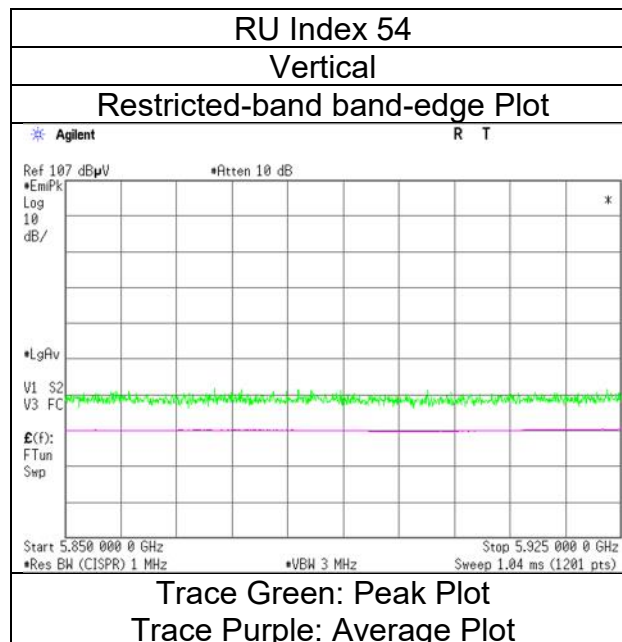
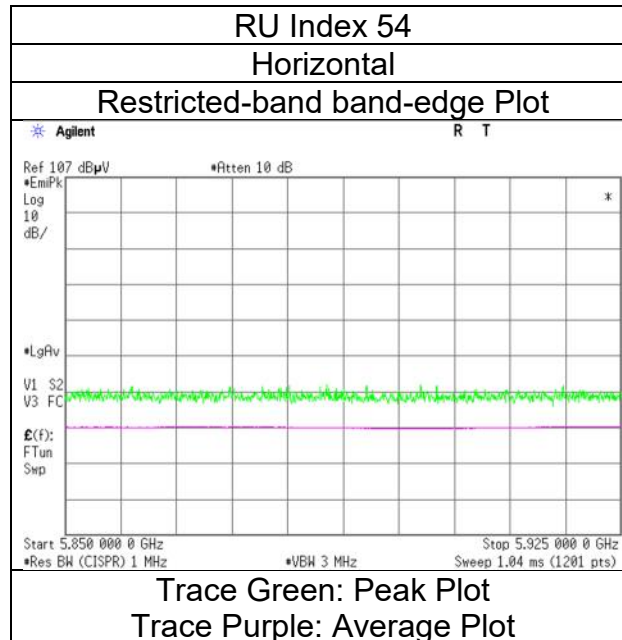
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 17, 2023
Temperature / Humidity	22 deg. C / 36 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5825 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5825 MHz With DH5 Hopping

RU Index 61

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.27	32.94	17.61	43.39	2.49	58.92	-36.31	27.0	63.3	164	129	-
Hori.	5855.000	PK	49.07	32.95	17.61	43.39	2.49	58.73	-36.50	15.6	52.1	164	129	-
Hori.	5875.000	PK	49.56	32.98	17.64	43.39	2.49	59.28	-35.95	10.0	45.9	164	129	-
Hori.	5925.000	PK	49.21	33.06	17.66	43.38	2.49	59.04	-36.19	-27.0	9.1	164	129	-
Vert.	5850.000	PK	49.54	32.94	17.61	43.39	2.49	59.19	-36.04	27.0	63.0	147	252	-
Vert.	5855.000	PK	49.77	32.95	17.61	43.39	2.49	59.43	-35.80	15.6	51.4	147	252	-
Vert.	5875.000	PK	49.62	32.98	17.64	43.39	2.49	59.34	-35.89	10.0	45.8	147	252	-
Vert.	5925.000	PK	49.07	33.06	17.66	43.38	2.49	58.90	-36.33	-27.0	9.3	147	252	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

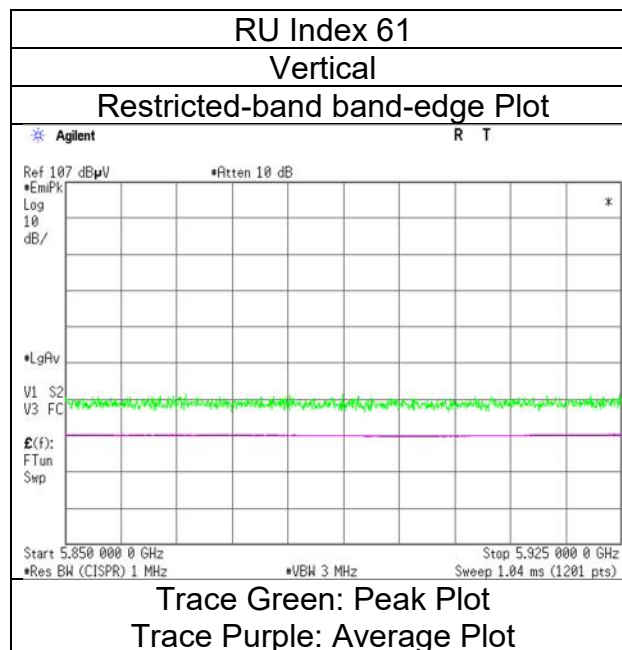
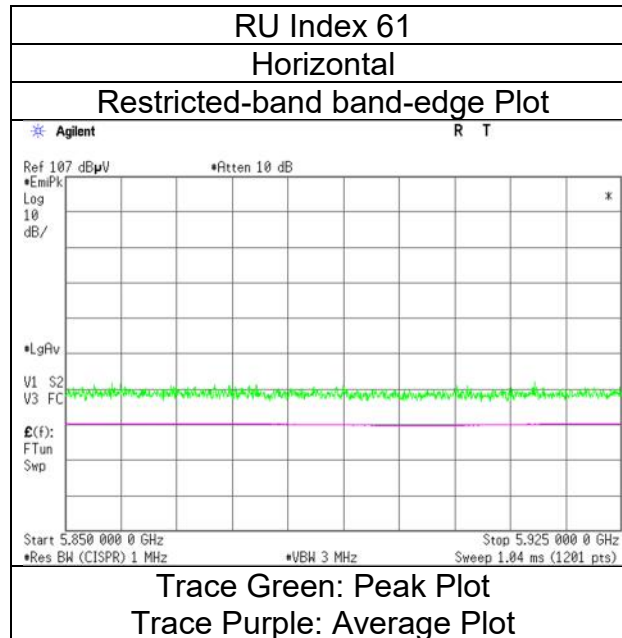
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 17, 2023
22 deg. C / 36 % RH
Yasumasa Owaki
Tx 11ax-20 (OFDMA) 242-tone RU, 5825 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5190 MHz With DH5 Hopping

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.72	32.16	17.18	43.07	2.49	57.48	73.9	16.4	185	93	-
Hori.	5150.000	AV	36.32	32.16	17.18	43.07	2.49	45.08	53.9	8.8	185	93	VBW: 10 Hz
Vert.	5150.000	PK	48.43	32.16	17.18	43.07	2.49	57.19	73.9	16.7	304	240	-
Vert.	5150.000	AV	36.33	32.16	17.18	43.07	2.49	45.09	53.9	8.8	304	240	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

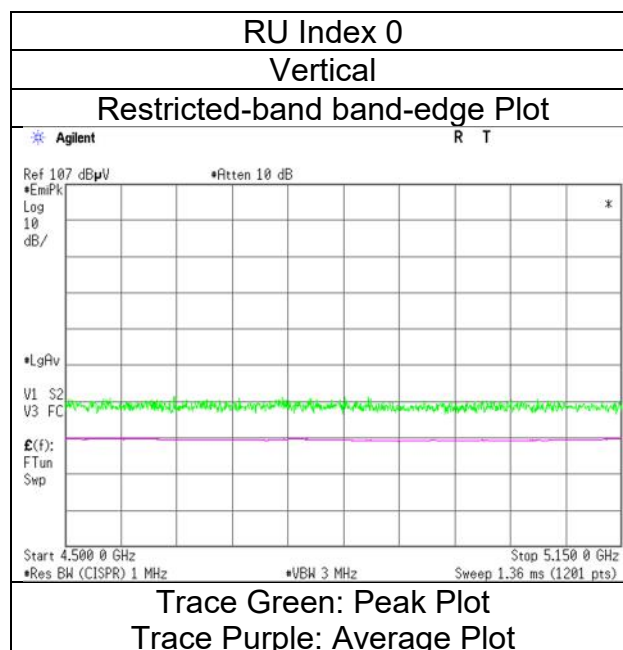
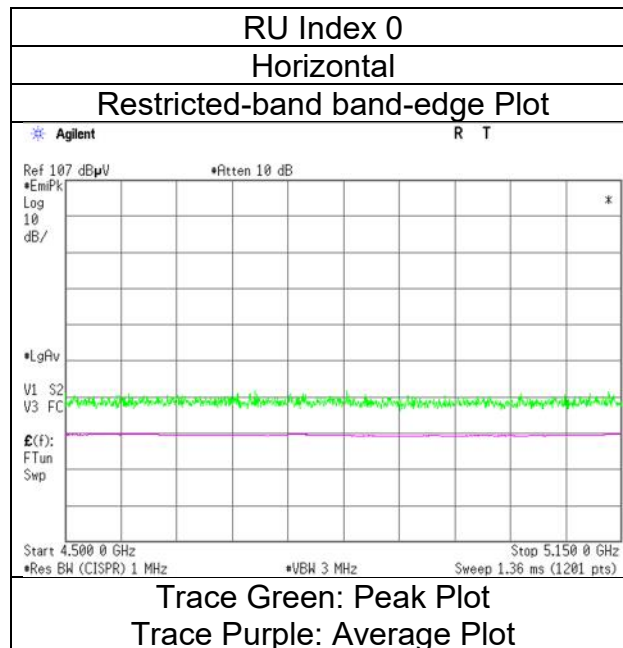
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 17, 2023
Temperature / Humidity	22 deg. C / 36 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5190 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5190 MHz With DH5 Hopping

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.46	32.16	17.18	43.07	2.39	57.12	73.9	16.7	184	93	-
Hori.	5150.000	AV	36.34	32.16	17.18	43.07	2.39	45.00	53.9	8.9	184	93	VBW: 10 Hz
Vert.	5150.000	PK	48.59	32.16	17.18	43.07	2.39	57.25	73.9	16.6	233	240	-
Vert.	5150.000	AV	36.36	32.16	17.18	43.07	2.39	45.02	53.9	8.8	233	240	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

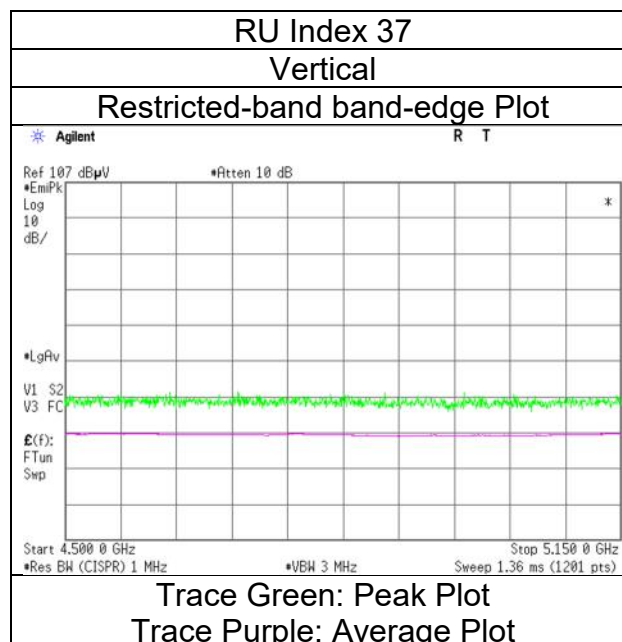
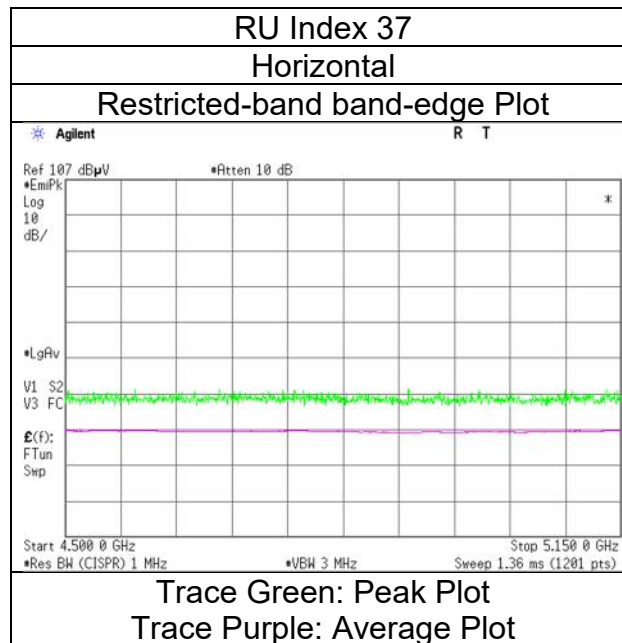
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 17, 2023
22 deg. C / 36 % RH
Yasumasa Owaki
Tx 11ax-40 (OFDMA) 52-tone RU, 5190 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5190 MHz With DH5 Hopping

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.77	32.16	17.18	43.07	2.49	57.53	73.9	16.3	298	241	-
Hori.	5150.000	AV	36.30	32.16	17.18	43.07	2.49	45.06	53.9	8.8	298	241	VBW: 10 Hz
Vert.	5150.000	PK	48.76	32.16	17.18	43.07	2.49	57.52	73.9	16.3	288	151	-
Vert.	5150.000	AV	36.30	32.16	17.18	43.07	2.49	45.06	53.9	8.8	288	151	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

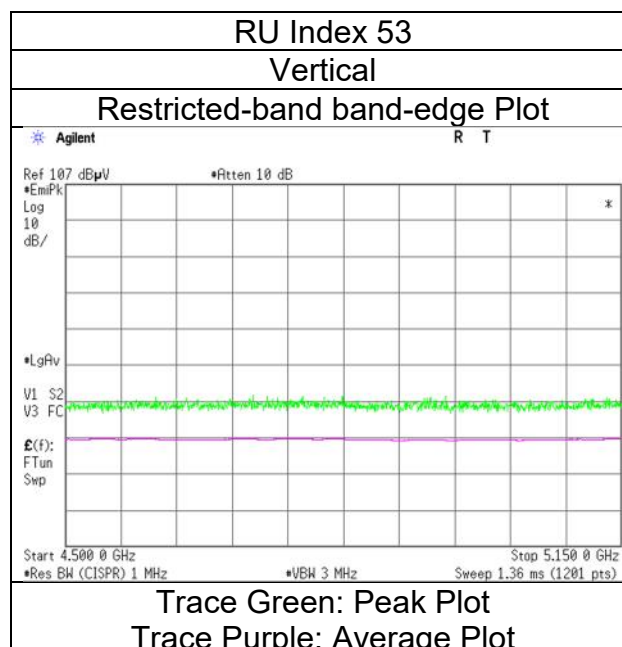
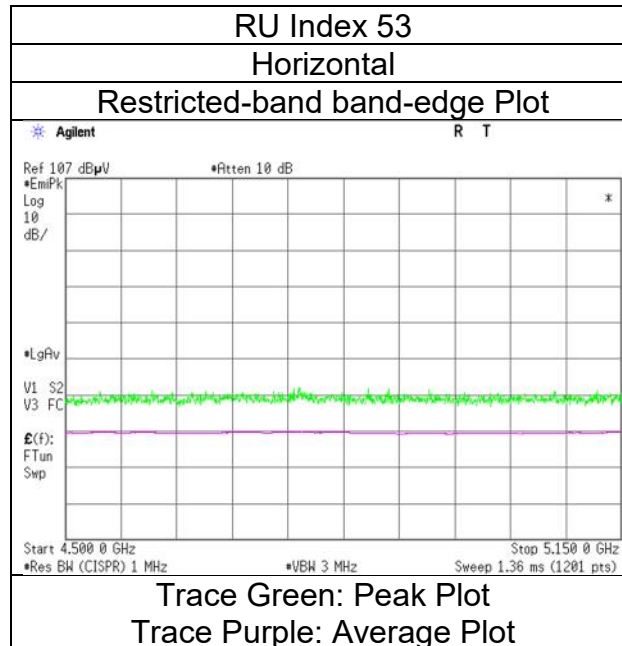
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 106 -tone RU, 5190 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5190 MHz With DH5 Hopping

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.61	32.16	17.18	43.07	2.49	56.37	73.9	17.5	114	45	-
Hori.	5150.000	AV	36.41	32.16	17.18	43.07	2.49	45.17	53.9	8.7	114	45	VBW: 10 Hz
Vert.	5150.000	PK	47.32	32.16	17.18	43.07	2.49	56.08	73.9	17.8	118	233	-
Vert.	5150.000	AV	36.39	32.16	17.18	43.07	2.49	45.15	53.9	8.7	118	233	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

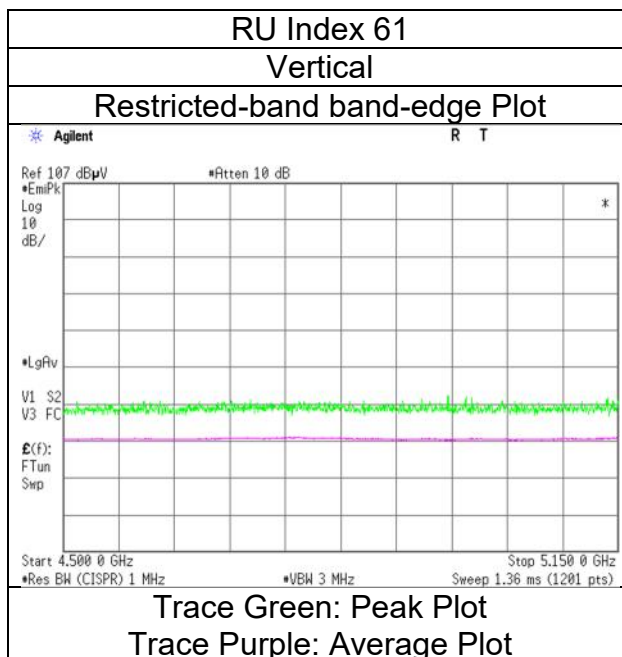
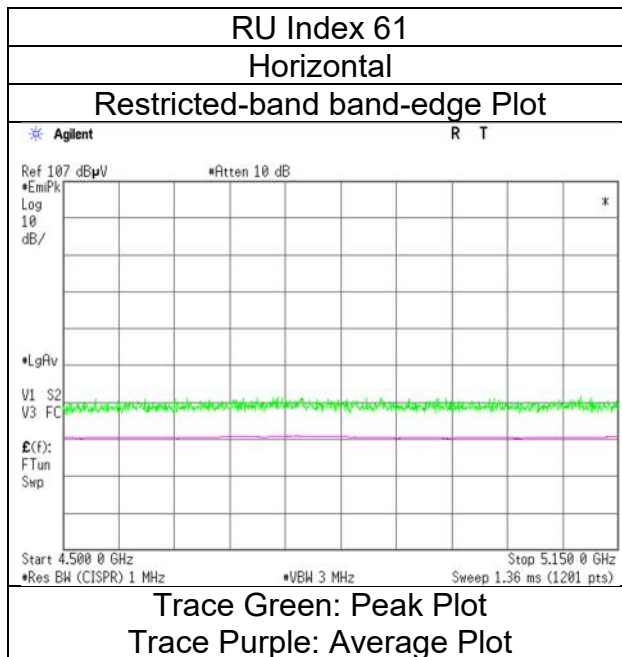
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 242-tone RU, 5190 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5190 MHz With DH5 Hopping

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.42	32.16	17.18	43.07	2.49	56.18	73.9	17.7	190	135	-
Hori.	5150.000	AV	36.59	32.16	17.18	43.07	2.49	45.35	53.9	8.5	190	135	VBW: 10 Hz
Vert.	5150.000	PK	48.54	32.16	17.18	43.07	2.49	57.30	73.9	16.6	100	236	-
Vert.	5150.000	AV	36.72	32.16	17.18	43.07	2.49	45.48	53.9	8.4	100	236	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

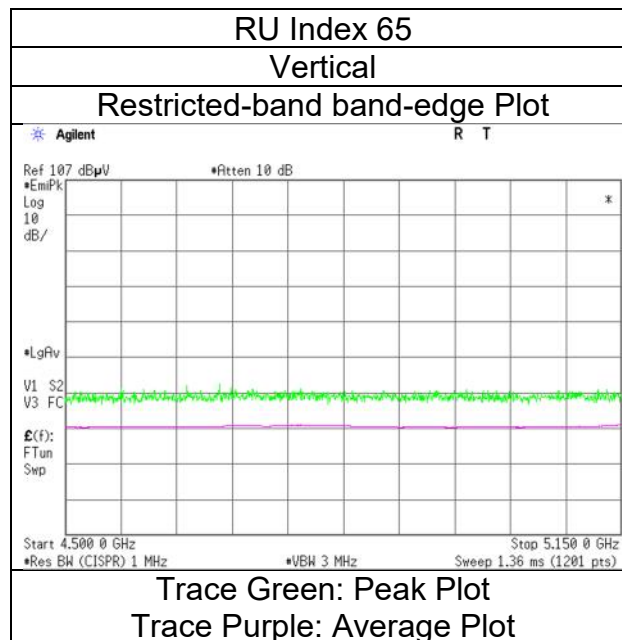
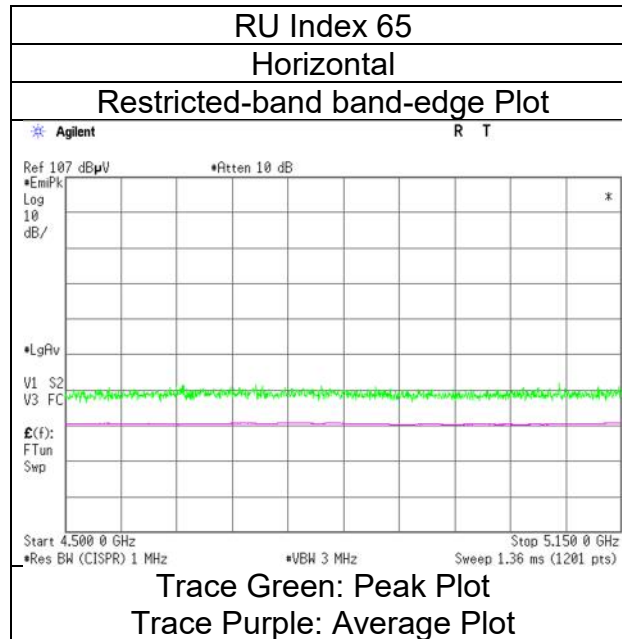
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 484-tone RU, 5190 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5310 MHz With DH5 Hopping

RU Index 17

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.76	31.98	17.30	43.30	2.49	57.23	73.9	16.6	154	135	-
Hori.	5350.000	AV	36.57	31.98	17.30	43.30	2.49	45.04	53.9	8.8	154	135	VBW: 10 Hz
Vert.	5350.000	PK	48.84	31.98	17.30	43.30	2.49	57.31	73.9	16.5	282	242	-
Vert.	5350.000	AV	36.56	31.98	17.30	43.30	2.49	45.03	53.9	8.8	282	242	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

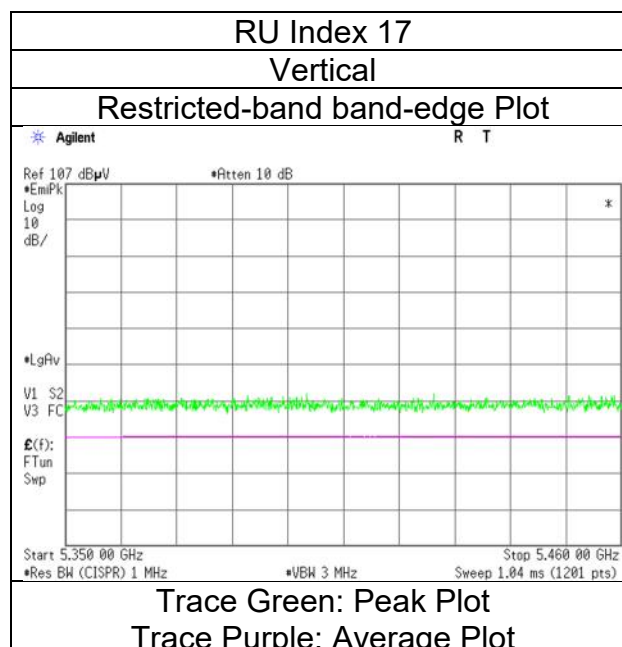
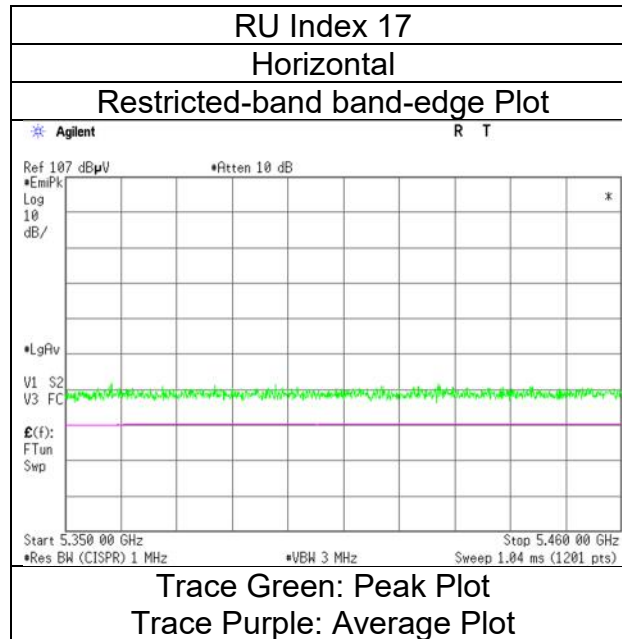
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 17, 2023
22 deg. C / 36 % RH
Yasumasa Owaki
Tx 11ax-40 (OFDMA) 26-tone RU, 5310 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 17, 2023
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5310 MHz With DH5 Hopping

RU Index 44

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.75	31.98	17.30	43.30	2.49	57.22	73.9	16.6	174	131	-
Hori.	5350.000	AV	36.58	31.98	17.30	43.30	2.49	45.05	53.9	8.8	174	131	VBW: 10 Hz
Vert.	5350.000	PK	48.57	31.98	17.30	43.30	2.49	57.04	73.9	16.8	259	255	-
Vert.	5350.000	AV	36.56	31.98	17.30	43.30	2.49	45.03	53.9	8.8	259	255	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

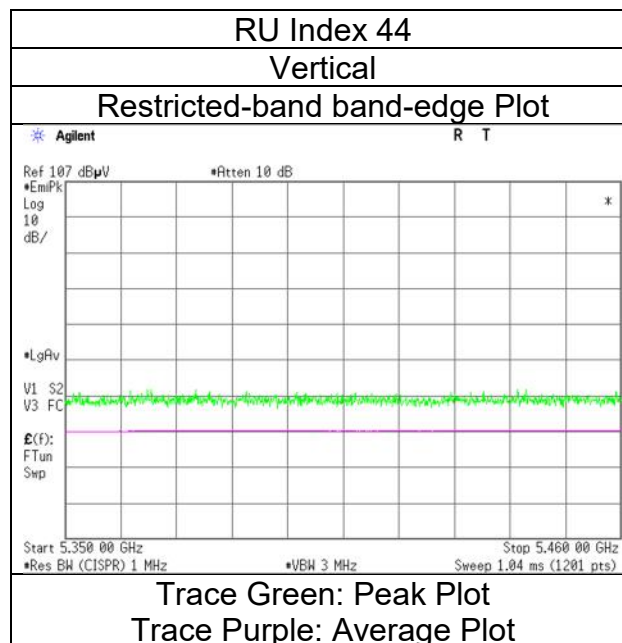
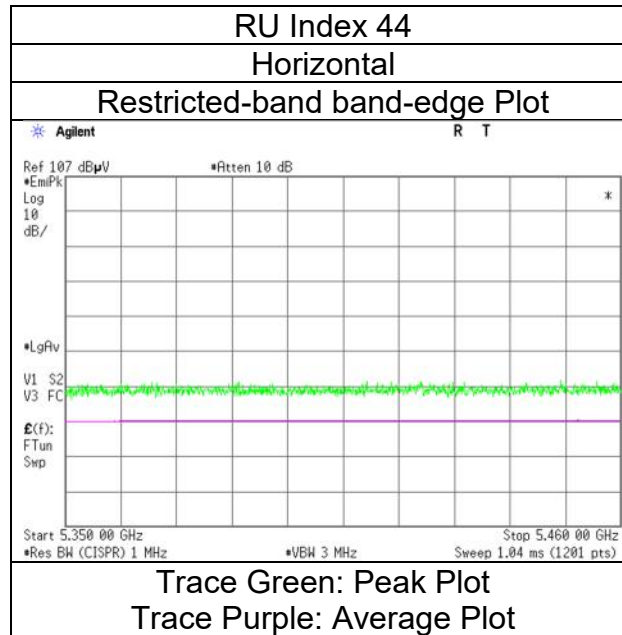
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 17, 2023
22 deg. C / 36 % RH
Yasumasa Owaki
Tx 11ax-40 (OFDMA) 52-tone RU, 5310 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5310 MHz With DH5 Hopping

RU Index 56

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.67	31.98	17.30	43.30	2.49	57.14	73.9	16.7	247	236	-
Hori.	5350.000	AV	36.64	31.98	17.30	43.30	2.49	45.11	53.9	8.7	247	236	VBW: 10 Hz
Vert.	5350.000	PK	48.35	31.98	17.30	43.30	2.49	56.82	73.9	17.0	288	273	-
Vert.	5350.000	AV	36.59	31.98	17.30	43.30	2.49	45.06	53.9	8.8	288	273	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

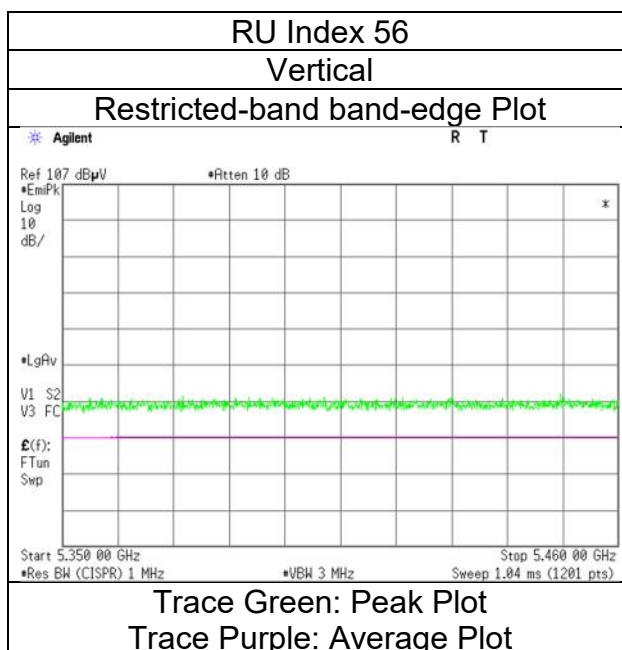
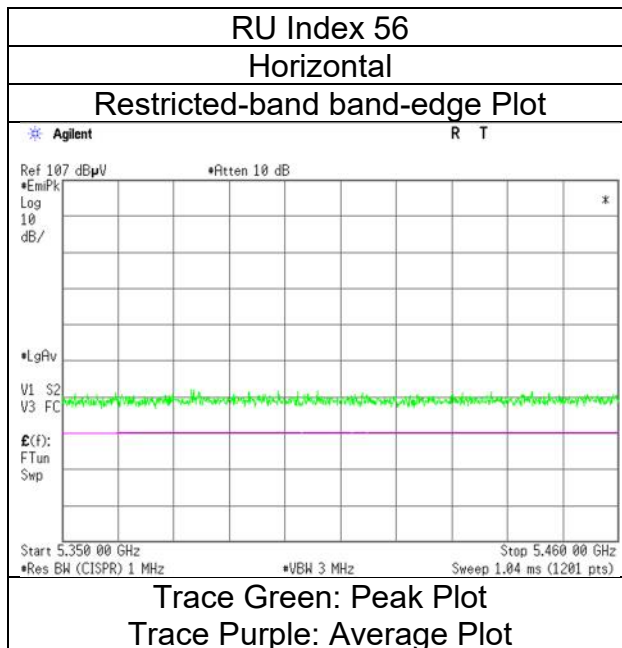
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 106 -tone RU, 5310 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
(1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5310 MHz With DH5 Hopping

RU Index 62

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.47	31.98	17.30	43.30	2.49	55.94	73.9	17.9	113	29	-
Hori.	5350.000	AV	36.65	31.98	17.30	43.30	2.49	45.12	53.9	8.7	113	29	VBW: 10 Hz
Vert.	5350.000	PK	48.90	31.98	17.30	43.30	2.49	57.37	73.9	16.5	100	239	-
Vert.	5350.000	AV	36.66	31.98	17.30	43.30	2.49	45.13	53.9	8.7	100	239	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

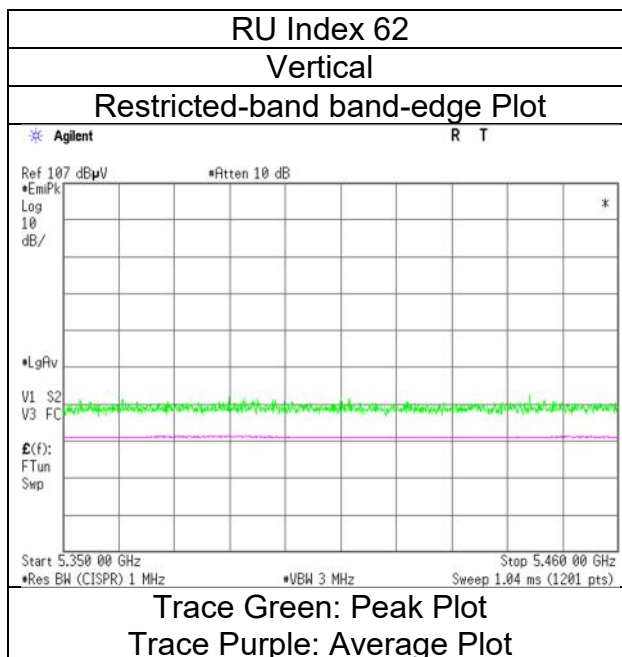
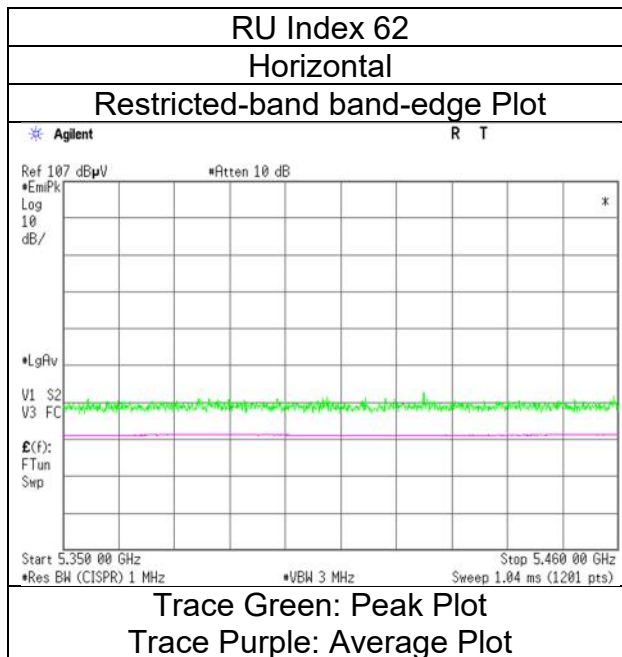
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 242-tone RU, 5310 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5310 MHz With DH5 Hopping

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.24	31.98	17.30	43.30	2.49	56.71	73.9	17.1	219	137	-
Hori.	5350.000	AV	36.96	31.98	17.30	43.30	2.49	45.43	53.9	8.4	219	137	VBW: 10 Hz
Vert.	5350.000	PK	48.63	31.98	17.30	43.30	2.49	57.10	73.9	16.8	100	241	-
Vert.	5350.000	AV	36.97	31.98	17.30	43.30	2.49	45.44	53.9	8.4	100	241	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

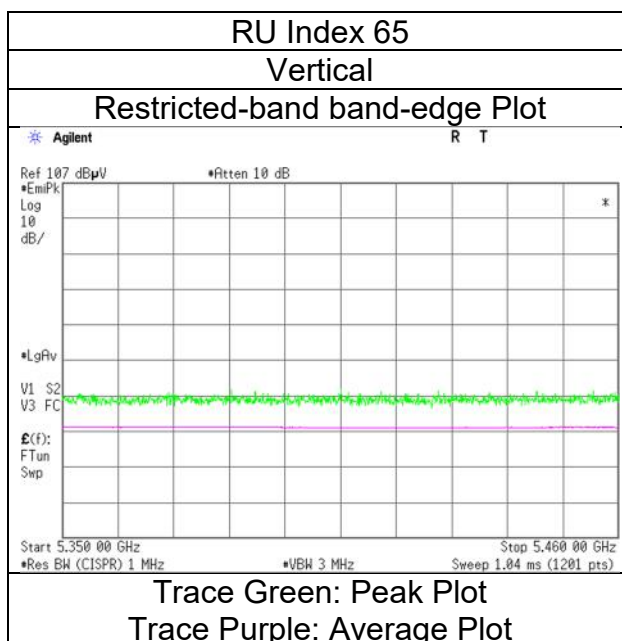
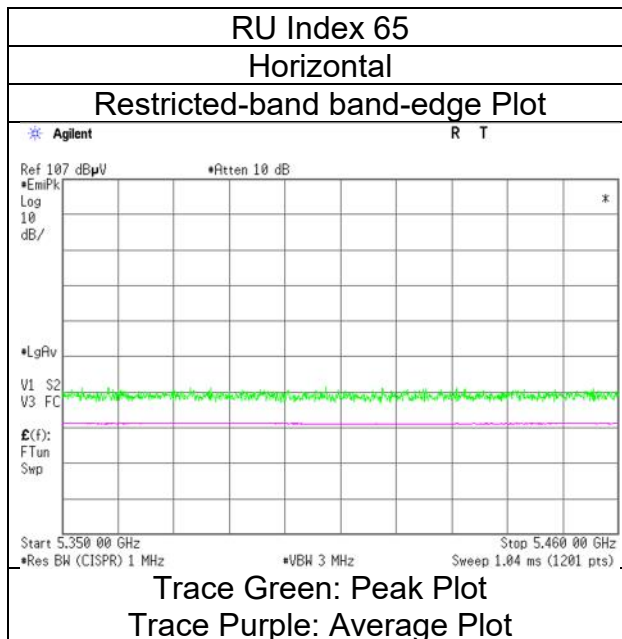
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 484-tone RU, 5310 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5510 MHz With DH5 Hopping

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.50	32.24	16.82	44.29	2.49	57.76	73.9	16.1	118	128	-
Hori.	5460.000	AV	39.11	32.24	16.82	44.29	2.49	46.37	53.9	7.5	118	128	VBW:10 Hz
Vert.	5460.000	PK	51.53	32.24	16.82	44.29	2.49	58.79	73.9	15.1	204	237	-
Vert.	5460.000	AV	39.14	32.24	16.82	44.29	2.49	46.40	53.9	7.5	204	237	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.07	32.25	16.83	44.30	2.49	58.34	-36.89	-27.0	9.8	118	128	-
Vert.	5470.000	PK	51.09	32.25	16.83	44.30	2.49	58.36	-36.87	-27.0	9.8	204	237	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6)) * \text{Distance} : 3 [\text{m}])^{\wedge}2 / 30 * 10^{\wedge}3)$

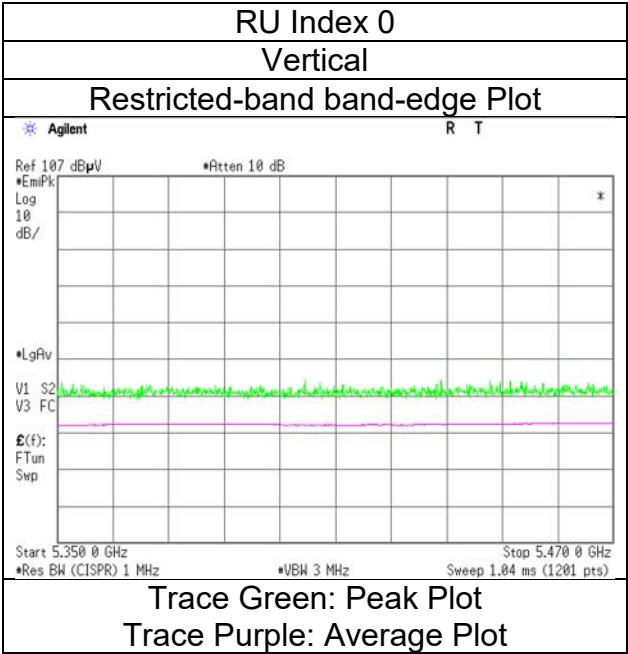
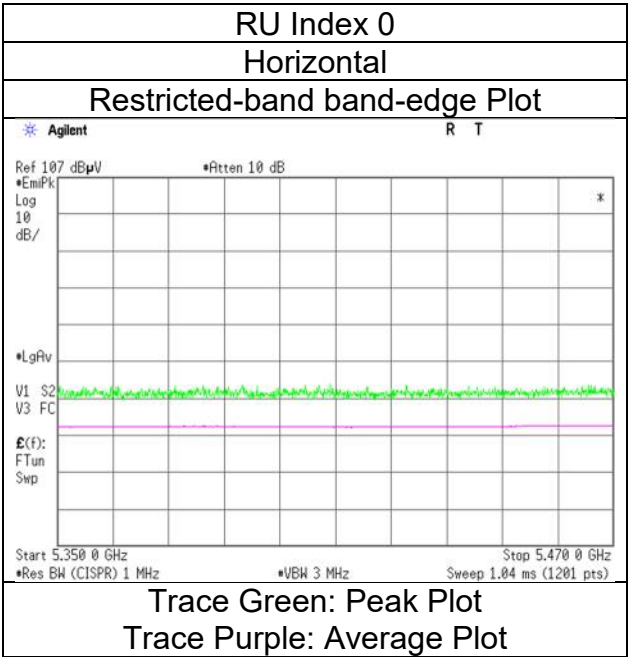
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5510 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5510 MHz With DH5 Hopping

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.85	32.24	16.82	44.29	2.49	58.11	73.9	15.7	116	131	-
Hori.	5460.000	AV	39.13	32.24	16.82	44.29	2.49	46.39	53.9	7.5	116	131	VBW:10 Hz
Vert.	5460.000	PK	51.21	32.24	16.82	44.29	2.49	58.47	73.9	15.4	207	236	-
Vert.	5460.000	AV	39.14	32.24	16.82	44.29	2.49	46.40	53.9	7.5	207	236	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.33	32.25	16.83	44.30	2.49	58.60	-36.63	-27.0	9.6	116	131	-
Vert.	5470.000	PK	52.31	32.25	16.83	44.30	2.49	59.58	-35.65	-27.0	8.6	207	236	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6) * \text{Distance} : 3 [\text{m}])^{\wedge}2 / 30 * 10^{\wedge}3)$

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

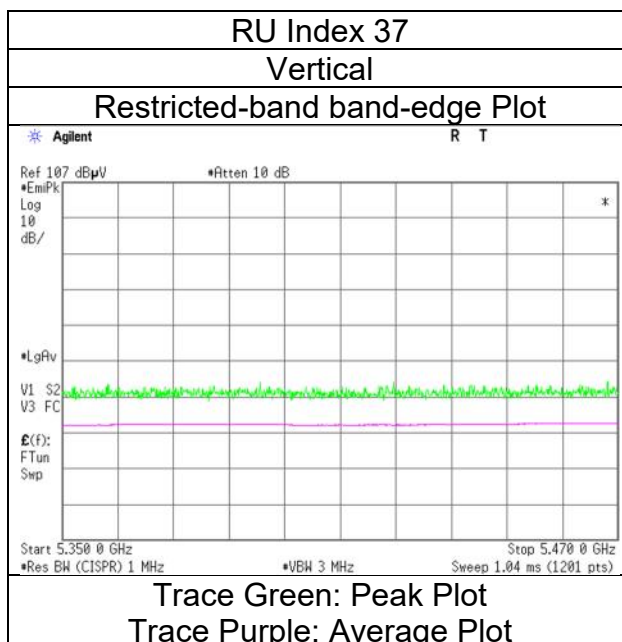
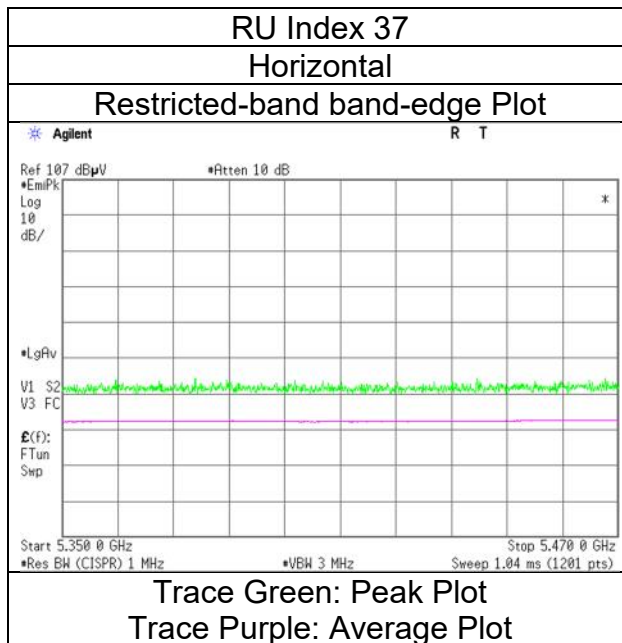
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-40 (OFDMA) 52-tone RU, 5510 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5510 MHz With DH5 Hopping

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.59	32.24	16.82	44.29	2.49	57.85	73.9	16.0	139	123	-
Hori.	5460.000	AV	39.10	32.24	16.82	44.29	2.49	46.36	53.9	7.5	139	123	VBW:10 Hz
Vert.	5460.000	PK	51.42	32.24	16.82	44.29	2.49	58.68	73.9	15.2	200	236	-
Vert.	5460.000	AV	39.03	32.24	16.82	44.29	2.49	46.29	53.9	7.6	200	236	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.00	32.25	16.83	44.30	2.49	58.27	-36.96	-27.0	9.9	139	123	-
Vert.	5470.000	PK	51.38	32.25	16.83	44.30	2.49	58.65	-36.58	-27.0	9.5	200	236	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6)) * \text{Distance} : 3\text{ [m]})^{\wedge}2 / 30 * 10^{\wedge}3)$

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

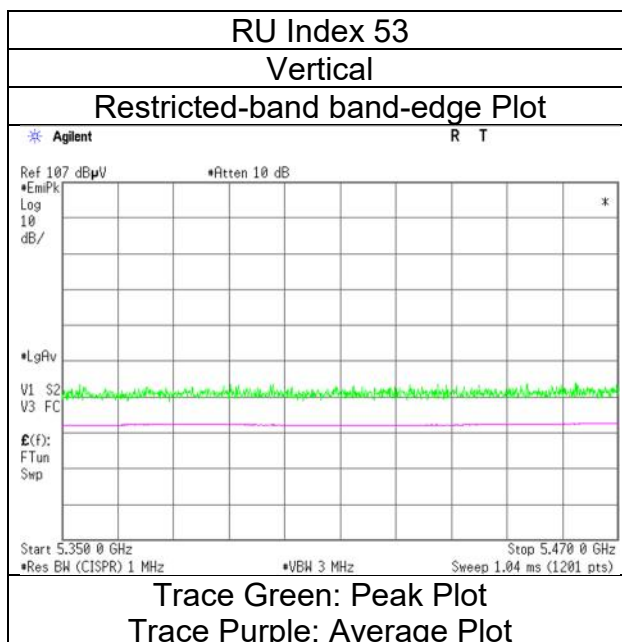
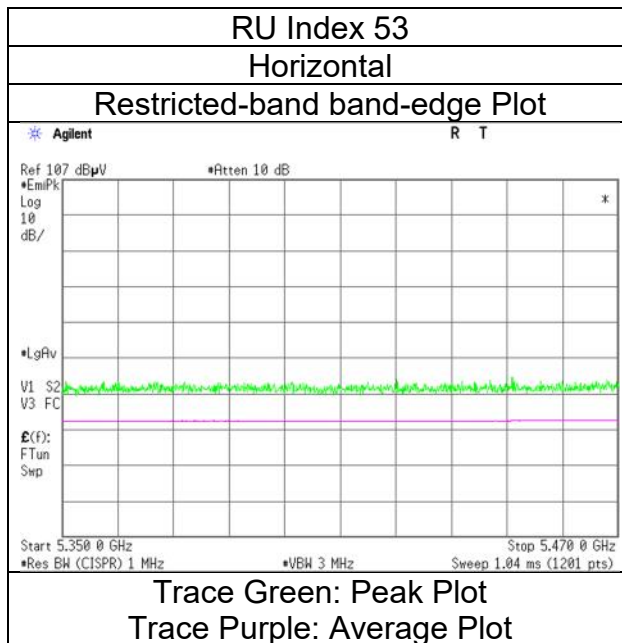
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-40 (OFDMA) 106 -tone RU, 5510 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5510 MHz With DH5 Hopping

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.53	32.24	16.82	44.29	2.49	57.79	73.9	16.1	143	116	-
Hori.	5460.000	AV	39.20	32.24	16.82	44.29	2.49	46.46	53.9	7.4	143	116	VBW:10 Hz
Vert.	5460.000	PK	51.67	32.24	16.82	44.29	2.49	58.93	73.9	14.9	213	237	-
Vert.	5460.000	AV	39.19	32.24	16.82	44.29	2.49	46.45	53.9	7.4	213	237	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.10	32.25	16.83	44.30	2.49	58.37	-36.86	-27.0	9.8	143	116	-
Vert.	5470.000	PK	51.92	32.25	16.83	44.30	2.49	59.19	-36.04	-27.0	9.0	213	237	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6)) * \text{Distance} : 3\text{ [m]})^{\wedge}2 / 30 * 10^{\wedge}3)$

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

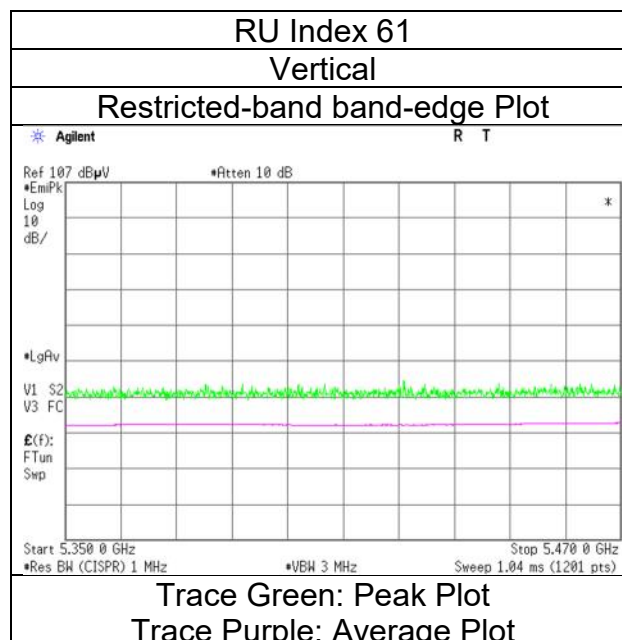
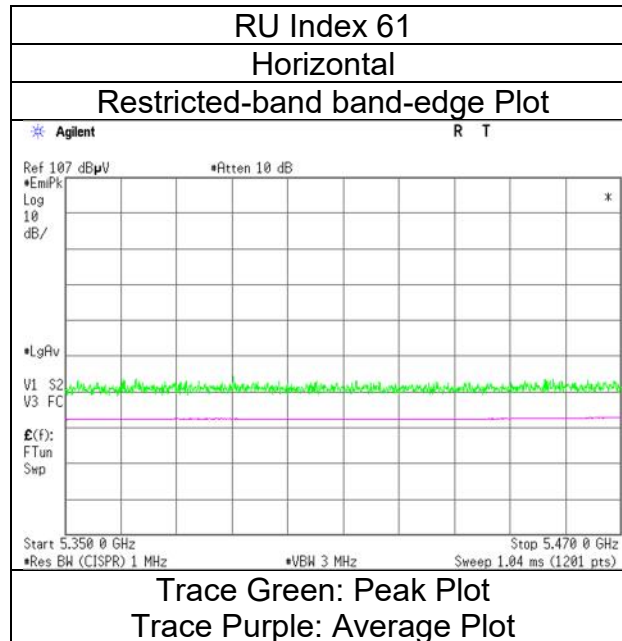
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-40 (OFDMA) 242-tone RU, 5510 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5510 MHz With DH5 Hopping

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.24	32.24	16.82	44.29	2.49	58.50	73.9	15.4	129	123	-
Hori.	5460.000	AV	39.49	32.24	16.82	44.29	2.49	46.75	53.9	7.1	129	123	VBW:10 Hz
Vert.	5460.000	PK	52.35	32.24	16.82	44.29	2.49	59.61	73.9	14.2	233	243	-
Vert.	5460.000	AV	39.66	32.24	16.82	44.29	2.49	46.92	53.9	6.9	233	243	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.74	32.25	16.83	44.30	2.49	59.01	-36.22	-27.0	9.2	129	123	-
Vert.	5470.000	PK	52.65	32.25	16.83	44.30	2.49	59.92	-35.31	-27.0	8.3	233	243	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6)) * \text{Distance} : 3\text{ [m]})^{\wedge}2 / 30 * 10^{\wedge}3)$

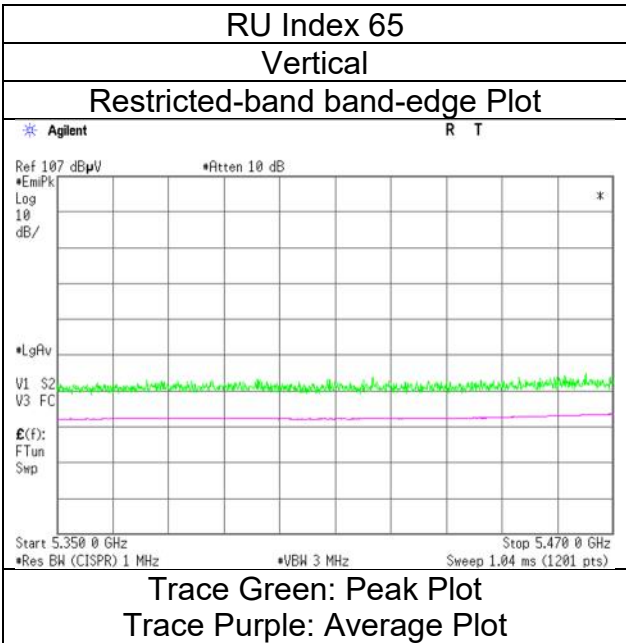
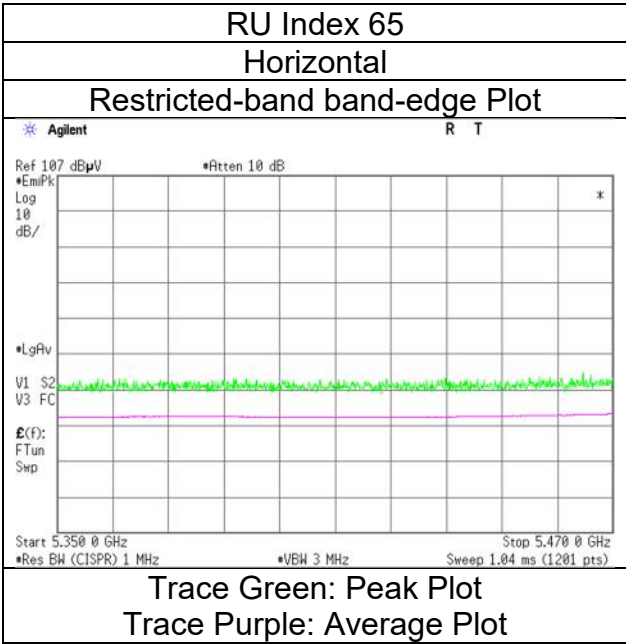
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-40 (OFDMA) 484-tone RU, 5510 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
(1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5670 MHz With DH5 Hopping

RU Index 17

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.21	32.63	16.97	44.33	2.49	57.97	-37.26	-27.0	10.2	117	127	-
Vert.	5725.000	PK	50.36	32.63	16.97	44.33	2.49	58.12	-37.11	-27.0	10.1	148	235	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

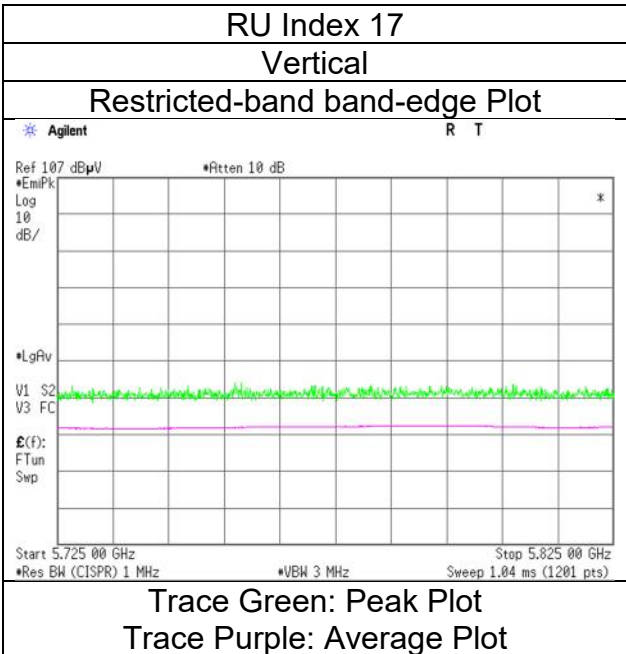
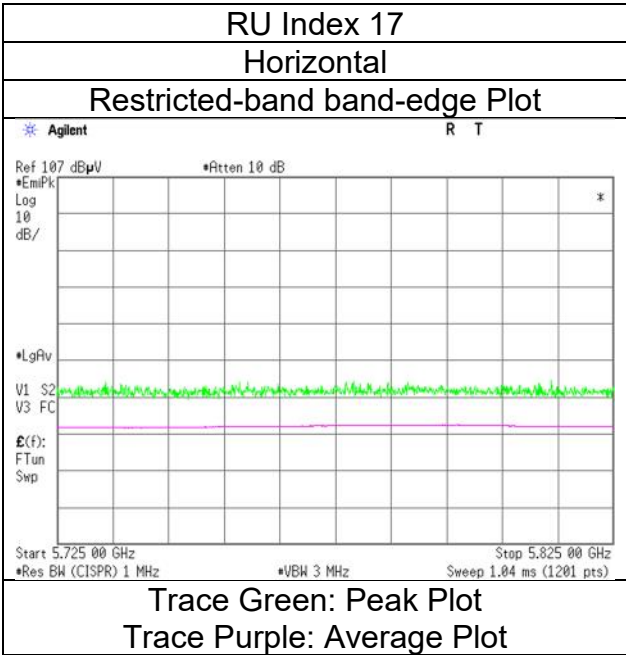
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5670 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5670 MHz With DH5 Hopping

RU Index 44

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.64	32.63	16.97	44.33	2.49	58.40	-36.83	-27.0	9.8	139	119	-
Vert.	5725.000	PK	50.64	32.63	16.97	44.33	2.49	58.40	-36.83	-27.0	9.8	209	0	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

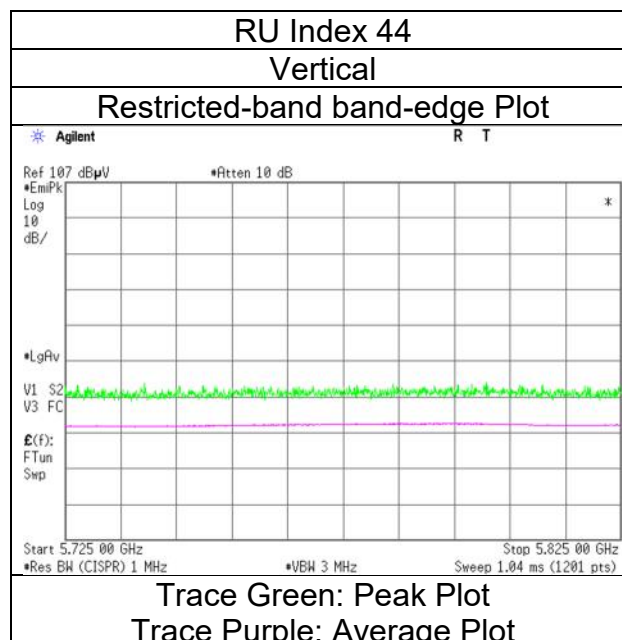
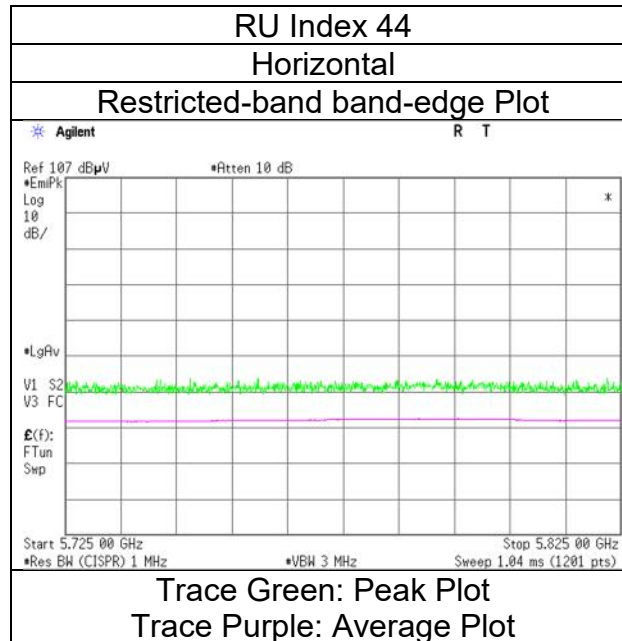
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-40 (OFDMA) 52-tone RU, 5670 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
(1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5670 MHz With DH5 Hopping

RU Index 56

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.89	32.63	16.97	44.33	2.49	58.65	-36.58	-27.0	9.5	130	127	-
Vert.	5725.000	PK	50.62	32.63	16.97	44.33	2.49	58.38	-36.85	-27.0	9.8	174	240	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

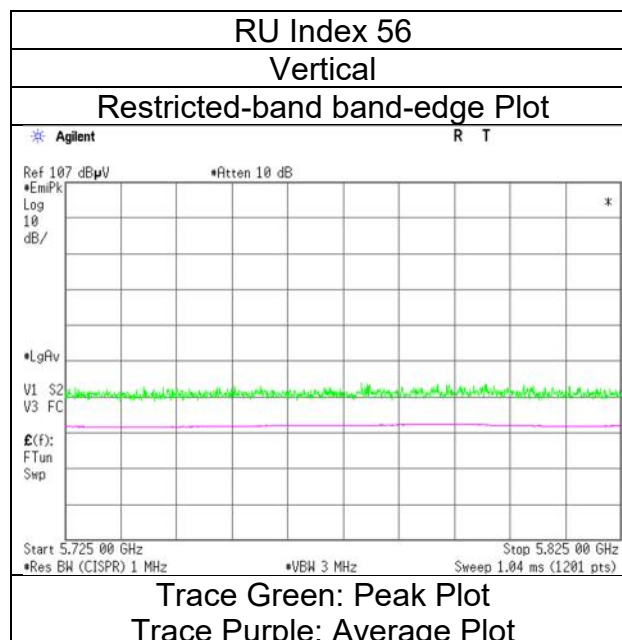
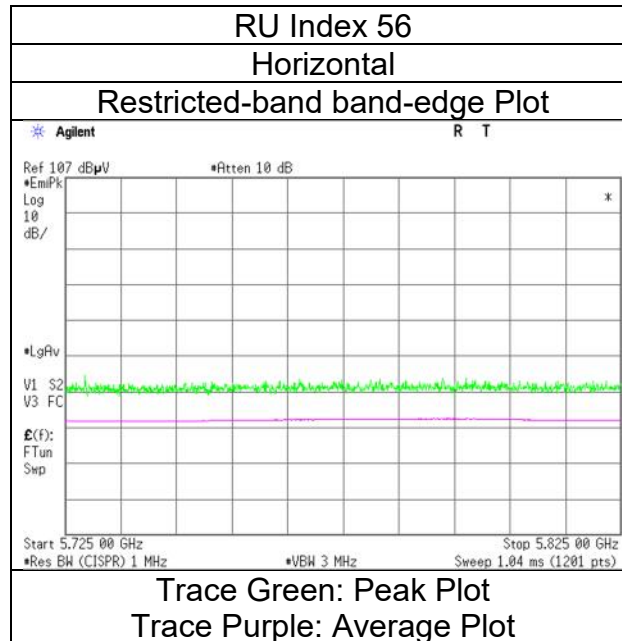
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 12, 2024
22 deg. C / 23 % RH
Takayuki Kobayashi
Tx 11ax-40 (OFDMA) 106 -tone RU, 5670 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
(1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5670 MHz With DH5 Hopping

RU Index 62

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.53	32.63	16.97	44.33	2.49	57.29	-37.94	-27.0	10.9	138	129	-
Vert.	5725.000	PK	50.91	32.63	16.97	44.33	2.49	58.67	-36.56	-27.0	9.5	206	249	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

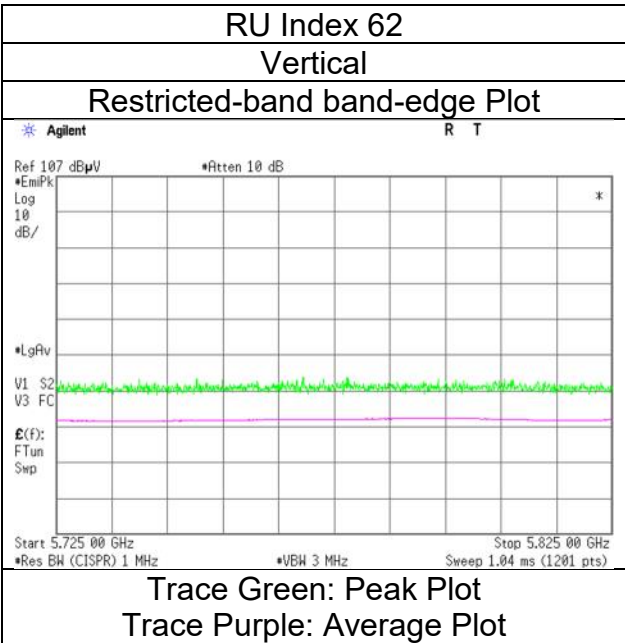
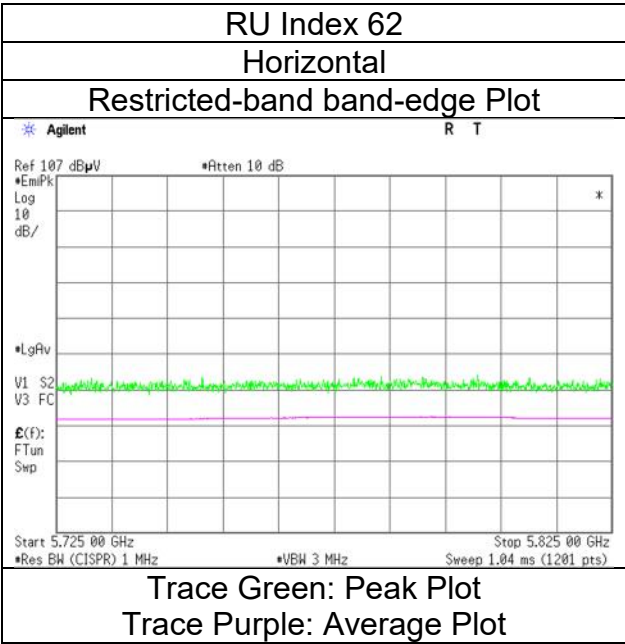
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-40 (OFDMA) 242-tone RU, 5670 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 12, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Takayuki Kobayashi
(1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5670 MHz With DH5 Hopping

RU Index 65

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.24	32.63	16.97	44.33	2.49	58.00	-37.23	-27.0	10.2	151	125	-
Vert.	5725.000	PK	51.33	32.63	16.97	44.33	2.49	59.09	-36.14	-27.0	9.1	179	248	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20)) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

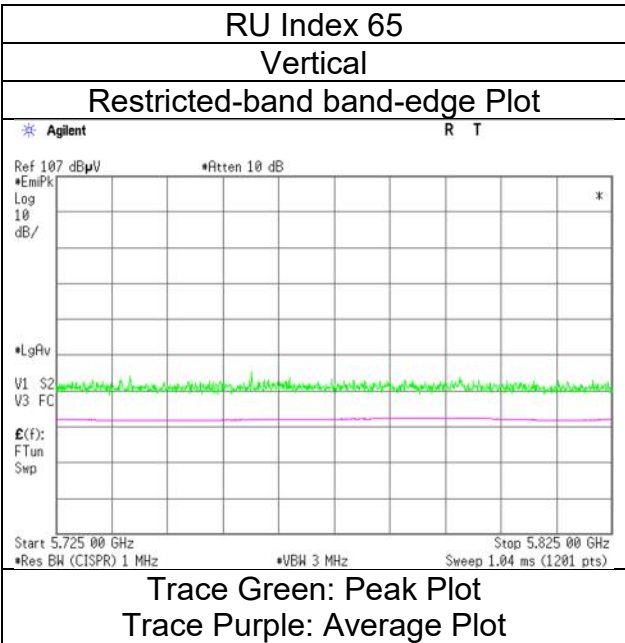
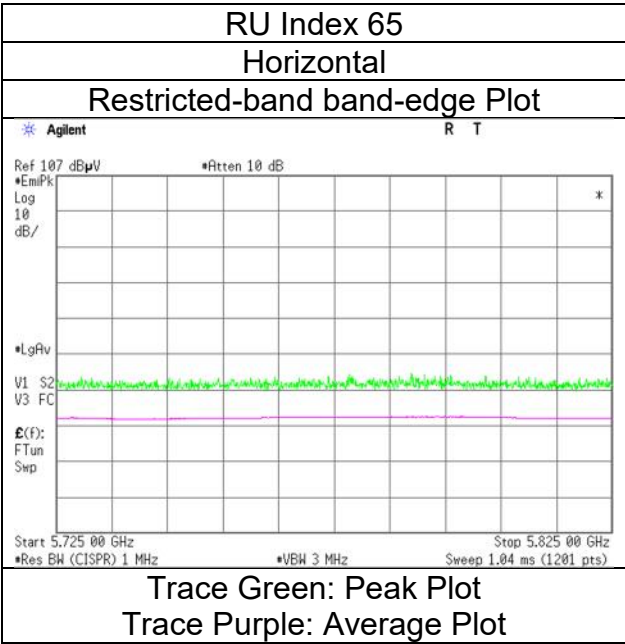
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-40 (OFDMA) 484-tone RU, 5670 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5755 MHz With DH5 Hopping

RU Index 0

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.18	32.44	17.50	43.44	2.49	57.17	-38.06	-27.0	11.0	244	239	-
Hori.	5700.000	PK	48.22	32.56	17.52	43.43	2.49	57.36	-37.87	10.0	47.8	244	239	-
Hori.	5720.000	PK	48.92	32.61	17.53	43.42	2.49	58.13	-37.10	15.6	52.7	244	239	-
Hori.	5725.000	PK	48.34	32.63	17.53	43.42	2.49	57.57	-37.66	27.0	64.6	244	239	-
Vert.	5650.000	PK	47.98	32.44	17.50	43.44	2.49	56.97	-38.26	-27.0	11.2	293	241	-
Vert.	5700.000	PK	49.03	32.56	17.52	43.43	2.49	58.17	-37.06	10.0	47.0	293	241	-
Vert.	5720.000	PK	48.20	32.61	17.53	43.42	2.49	57.41	-37.82	15.6	53.4	293	241	-
Vert.	5725.000	PK	48.90	32.63	17.53	43.42	2.49	58.13	-37.10	27.0	64.1	293	241	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

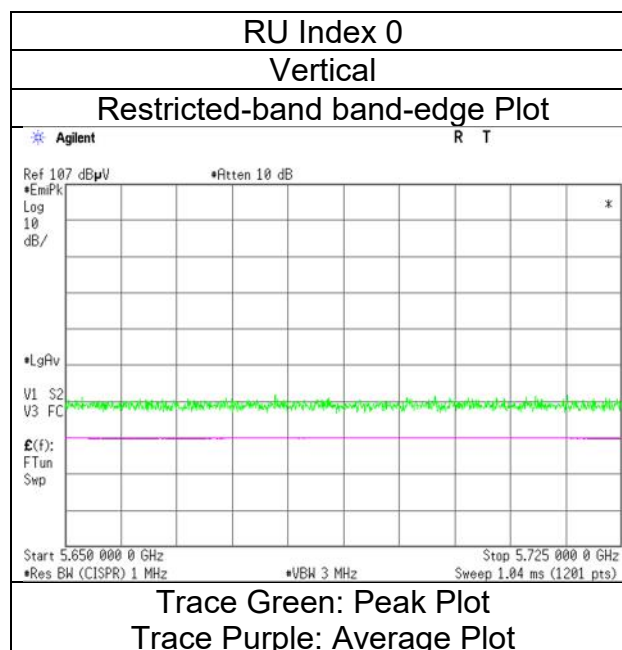
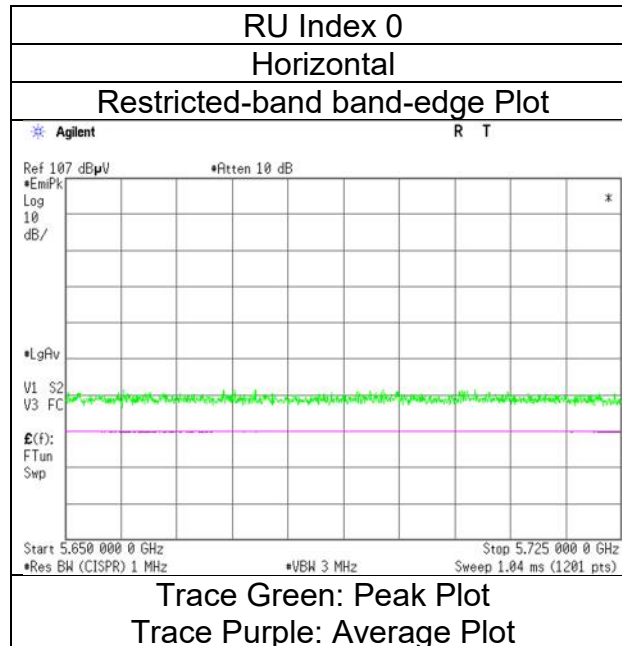
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 26-tone RU, 5755 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5755 MHz With DH5 Hopping

RU Index 37

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.59	32.44	17.50	43.44	2.49	57.58	-37.65	-27.0	10.6	243	238	-
Hori.	5700.000	PK	48.33	32.56	17.52	43.43	2.49	57.47	-37.76	10.0	47.7	243	238	-
Hori.	5720.000	PK	48.44	32.61	17.53	43.42	2.49	57.65	-37.58	15.6	53.1	243	238	-
Hori.	5725.000	PK	48.70	32.63	17.53	43.42	2.49	57.93	-37.30	27.0	64.3	243	238	-
Vert.	5650.000	PK	48.62	32.44	17.50	43.44	2.49	57.61	-37.62	-27.0	10.6	305	248	-
Vert.	5700.000	PK	48.91	32.56	17.52	43.43	2.49	58.05	-37.18	10.0	47.1	305	248	-
Vert.	5720.000	PK	48.41	32.61	17.53	43.42	2.49	57.62	-37.61	15.6	53.2	305	248	-
Vert.	5725.000	PK	48.08	32.63	17.53	43.42	2.49	57.31	-37.92	27.0	64.9	305	248	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

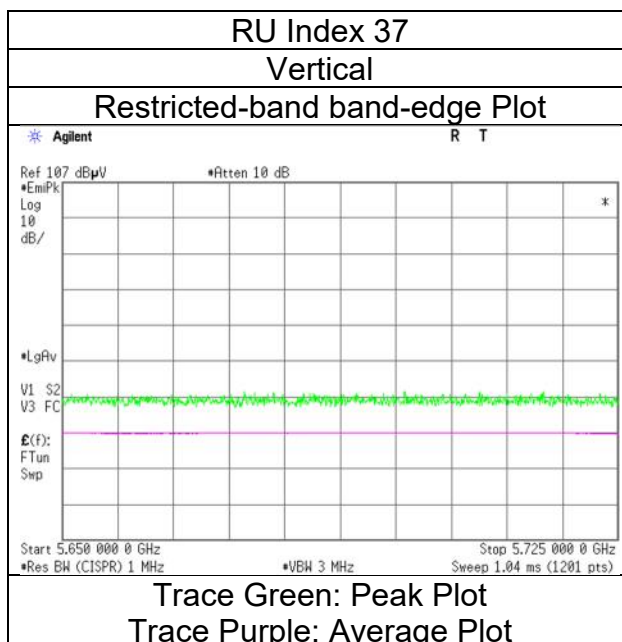
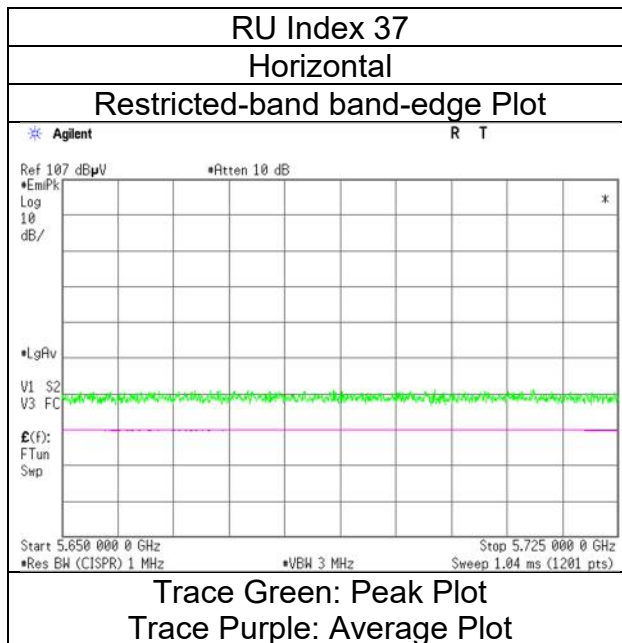
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 52-tone RU, 5755 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5755 MHz With DH5 Hopping

RU Index 53

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.76	32.44	17.50	43.44	2.49	57.75	-37.48	-27.0	10.4	239	234	-
Hori.	5700.000	PK	48.35	32.56	17.52	43.43	2.49	57.49	-37.74	10.0	47.7	239	234	-
Hori.	5720.000	PK	48.38	32.61	17.53	43.42	2.49	57.59	-37.64	15.6	53.2	239	234	-
Hori.	5725.000	PK	48.14	32.63	17.53	43.42	2.49	57.37	-37.86	27.0	64.8	239	234	-
Vert.	5650.000	PK	48.86	32.44	17.50	43.44	2.49	57.85	-37.38	-27.0	10.3	292	168	-
Vert.	5700.000	PK	48.81	32.56	17.52	43.43	2.49	57.95	-37.28	10.0	47.2	292	168	-
Vert.	5720.000	PK	48.52	32.61	17.53	43.42	2.49	57.73	-37.50	15.6	53.1	292	168	-
Vert.	5725.000	PK	48.85	32.63	17.53	43.42	2.49	58.08	-37.15	27.0	64.1	292	168	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

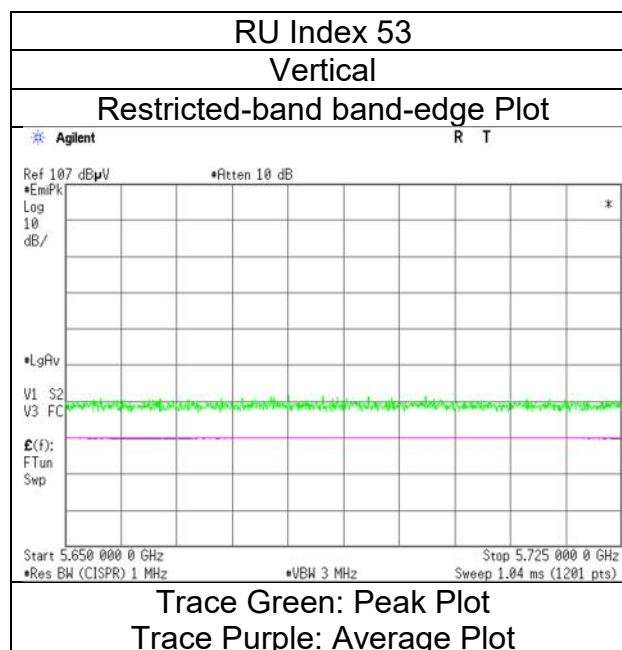
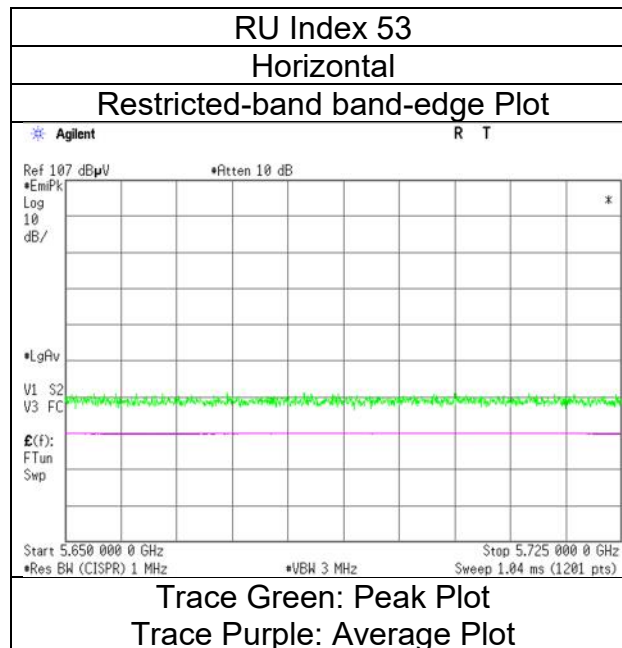
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 106 -tone RU, 5755 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5755 MHz With DH5 Hopping

RU Index 61

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.18	32.44	17.50	43.44	2.49	57.17	-38.06	-27.0	11.0	171	88	-
Hori.	5700.000	PK	47.99	32.56	17.52	43.43	2.49	57.13	-38.10	10.0	48.1	171	88	-
Hori.	5720.000	PK	47.84	32.61	17.53	43.42	2.49	57.05	-38.18	15.6	53.7	171	88	-
Hori.	5725.000	PK	47.71	32.63	17.53	43.42	2.49	56.94	-38.29	27.0	65.2	171	88	-
Vert.	5650.000	PK	48.33	32.44	17.50	43.44	2.49	57.32	-37.91	-27.0	10.9	100	269	-
Vert.	5700.000	PK	48.49	32.56	17.52	43.43	2.49	57.63	-37.60	10.0	47.6	100	269	-
Vert.	5720.000	PK	48.15	32.61	17.53	43.42	2.49	57.36	-37.87	15.6	53.4	100	269	-
Vert.	5725.000	PK	47.94	32.63	17.53	43.42	2.49	57.17	-38.06	27.0	65.0	100	269	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

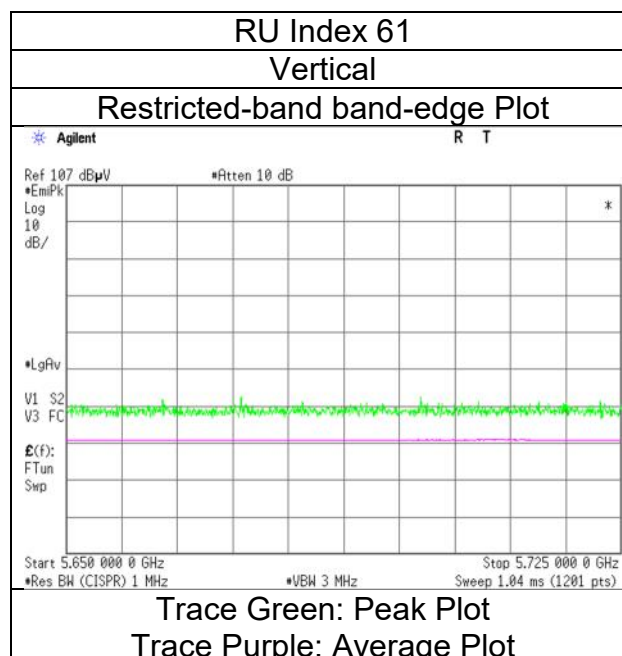
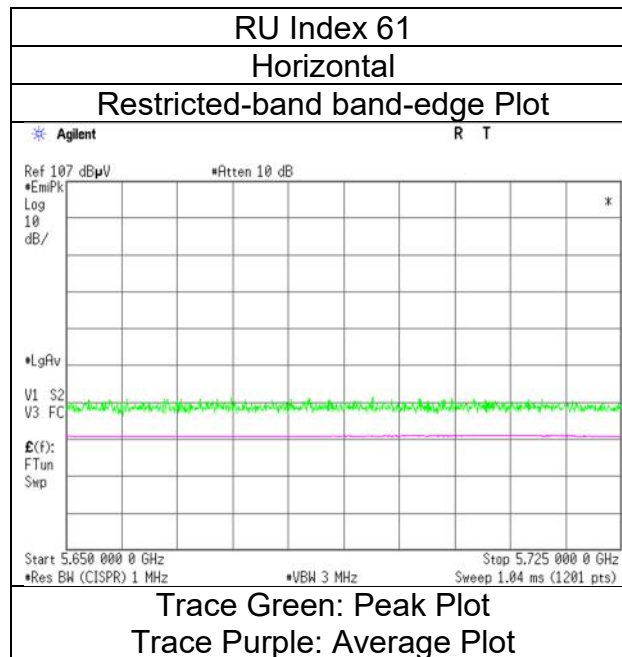
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 242-tone RU, 5755 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5755 MHz With DH5 Hopping

RU Index 65

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.98	32.44	17.50	43.44	2.49	56.97	-38.26	-27.0	11.2	226	52	-
Hori.	5700.000	PK	48.52	32.56	17.52	43.43	2.49	57.66	-37.57	10.0	47.5	226	52	-
Hori.	5720.000	PK	47.87	32.61	17.53	43.42	2.49	57.08	-38.15	15.6	53.7	226	52	-
Hori.	5725.000	PK	47.77	32.63	17.53	43.42	2.49	57.00	-38.23	27.0	65.2	226	52	-
Vert.	5650.000	PK	48.54	32.44	17.50	43.44	2.49	57.53	-37.70	-27.0	10.7	100	270	-
Vert.	5700.000	PK	47.91	32.56	17.52	43.43	2.49	57.05	-38.18	10.0	48.1	100	270	-
Vert.	5720.000	PK	47.78	32.61	17.53	43.42	2.49	56.99	-38.24	15.6	53.8	100	270	-
Vert.	5725.000	PK	48.00	32.63	17.53	43.42	2.49	57.23	-38.00	27.0	65.0	100	270	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

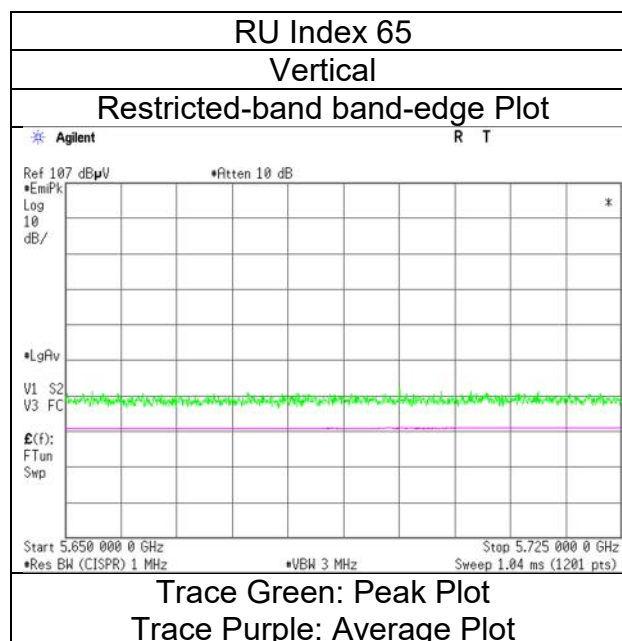
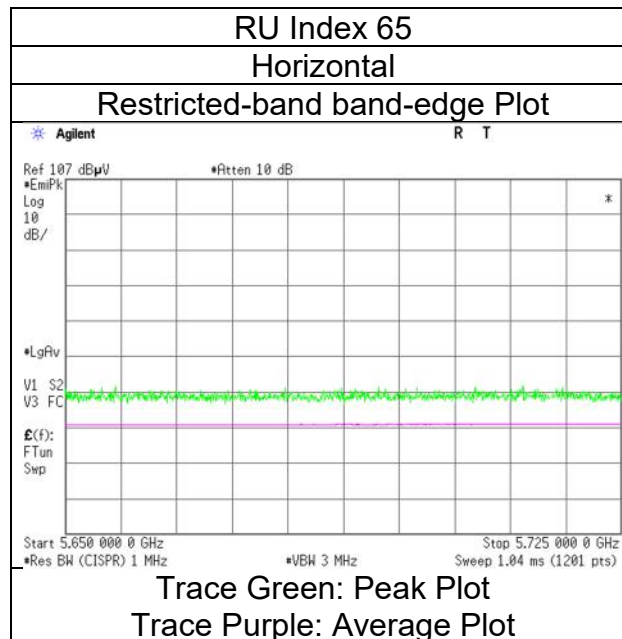
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 484-tone RU, 5755 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5795 MHz With DH5 Hopping

RU Index 17

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.35	32.94	17.61	43.39	2.49	59.00	-36.23	27.0	63.2	240	147	-
Hori.	5855.000	PK	48.55	32.95	17.61	43.39	2.49	58.21	-37.02	15.6	52.6	240	147	-
Hori.	5875.000	PK	48.82	32.98	17.64	43.39	2.49	58.54	-36.69	10.0	46.6	240	147	-
Hori.	5925.000	PK	49.39	33.06	17.66	43.38	2.49	59.22	-36.01	-27.0	9.0	240	147	-
Vert.	5850.000	PK	49.18	32.94	17.61	43.39	2.49	58.83	-36.40	27.0	63.4	304	242	-
Vert.	5855.000	PK	48.72	32.95	17.61	43.39	2.49	58.38	-36.85	15.6	52.4	304	242	-
Vert.	5875.000	PK	48.69	32.98	17.64	43.39	2.49	58.41	-36.82	10.0	46.8	304	242	-
Vert.	5925.000	PK	49.56	33.06	17.66	43.38	2.49	59.39	-35.84	-27.0	8.8	304	242	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

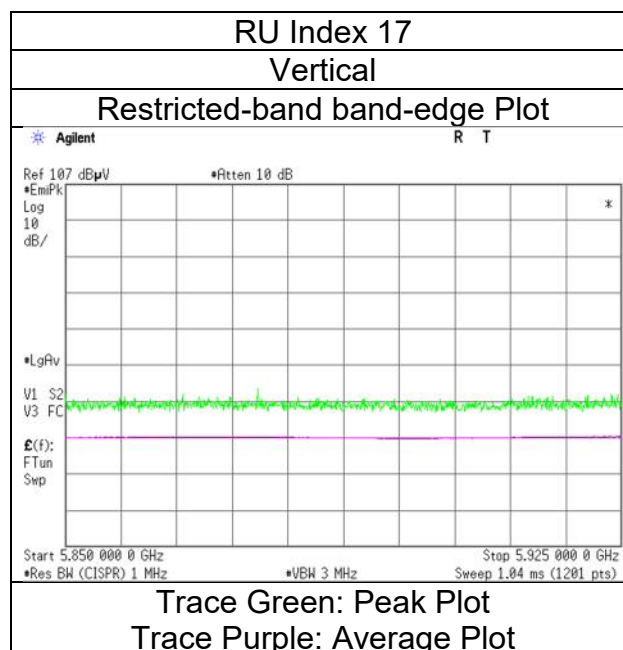
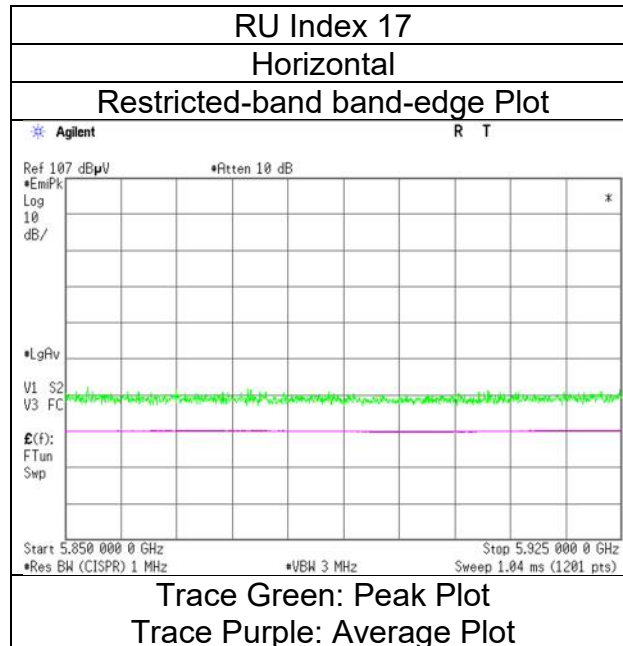
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 26-tone RU, 5795 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5795 MHz With DH5 Hopping

RU Index 44

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.01	32.94	17.61	43.39	2.49	57.66	-37.57	27.0	64.5	261	235	-
Hori.	5855.000	PK	48.43	32.95	17.61	43.39	2.49	58.09	-37.14	15.6	52.7	261	235	-
Hori.	5875.000	PK	48.51	32.98	17.64	43.39	2.49	58.23	-37.00	10.0	47.0	261	235	-
Hori.	5925.000	PK	48.91	33.06	17.66	43.38	2.49	58.74	-36.49	-27.0	9.4	261	235	-
Vert.	5850.000	PK	48.86	32.94	17.61	43.39	2.49	58.51	-36.72	27.0	63.7	326	238	-
Vert.	5855.000	PK	48.88	32.95	17.61	43.39	2.49	58.54	-36.69	15.6	52.2	326	238	-
Vert.	5875.000	PK	48.42	32.98	17.64	43.39	2.49	58.14	-37.09	10.0	47.0	326	238	-
Vert.	5925.000	PK	48.61	33.06	17.66	43.38	2.49	58.44	-36.79	-27.0	9.7	326	238	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

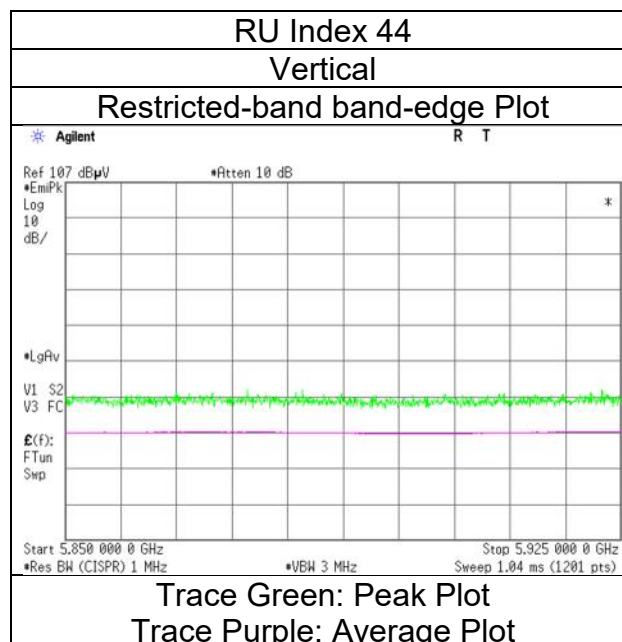
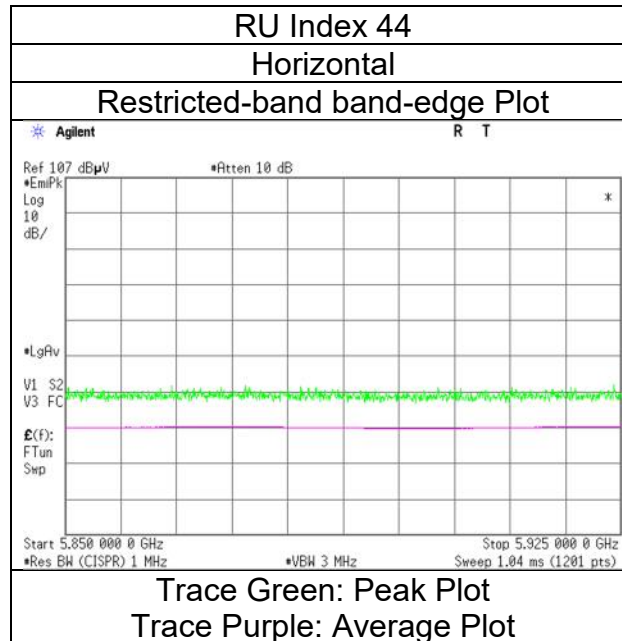
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 52-tone RU, 5795 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 18, 2023
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Hiromasa Sato
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5795 MHz With DH5 Hopping

RU Index 56

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.62	32.94	17.61	43.39	2.49	58.27	-36.96	27.0	63.9	188	102	-
Hori.	5855.000	PK	48.73	32.95	17.61	43.39	2.49	58.39	-36.84	15.6	52.4	188	102	-
Hori.	5875.000	PK	48.65	32.98	17.64	43.39	2.49	58.37	-36.86	10.0	46.8	188	102	-
Hori.	5925.000	PK	48.79	33.06	17.66	43.38	2.49	58.62	-36.61	-27.0	9.6	188	102	-
Vert.	5850.000	PK	49.43	32.94	17.61	43.39	2.49	59.08	-36.15	27.0	63.1	183	128	-
Vert.	5855.000	PK	48.40	32.95	17.61	43.39	2.49	58.06	-37.17	15.6	52.7	183	128	-
Vert.	5875.000	PK	49.45	32.98	17.64	43.39	2.49	59.17	-36.06	10.0	46.0	183	128	-
Vert.	5925.000	PK	48.84	33.06	17.66	43.38	2.49	58.67	-36.56	-27.0	9.5	183	128	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

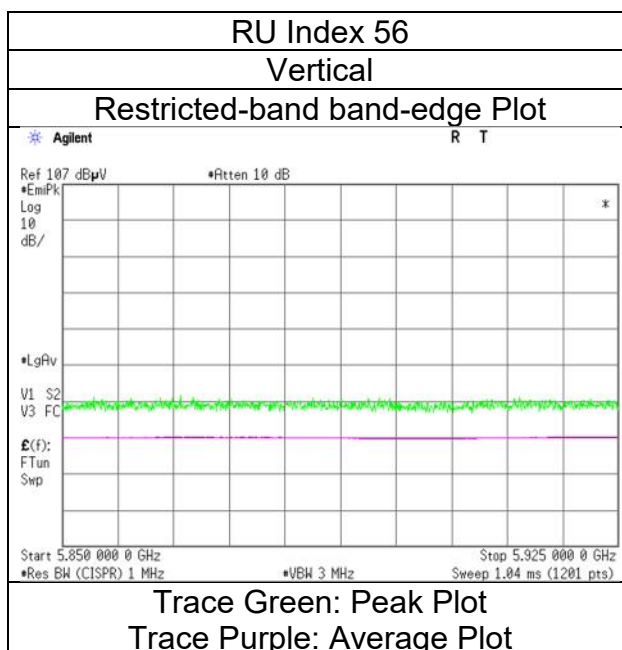
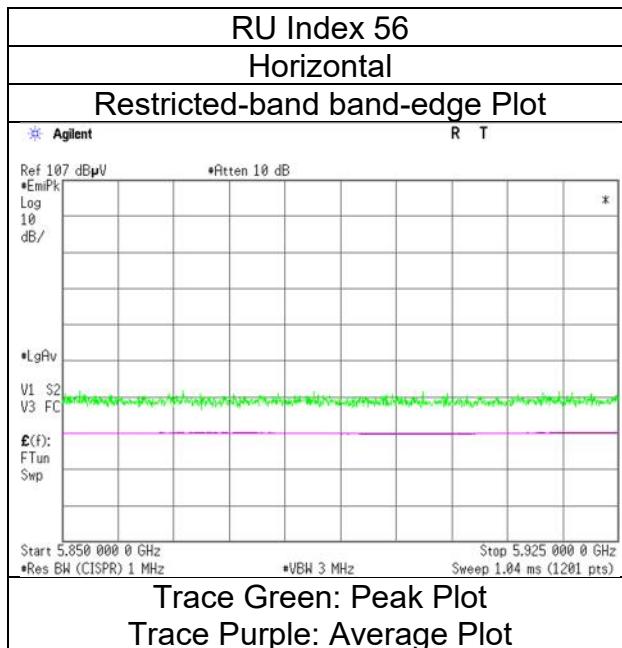
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 18, 2023
21 deg. C / 26 % RH
Hiromasa Sato
Tx 11ax-40 (OFDMA) 106 -tone RU, 5795 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5795 MHz With DH5 Hopping

RU Index 62

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.84	32.94	17.61	43.39	2.49	58.49	-36.74	27.0	63.7	173	51	-
Hori.	5855.000	PK	48.53	32.95	17.61	43.39	2.49	58.19	-37.04	15.6	52.6	173	51	-
Hori.	5875.000	PK	48.23	32.98	17.64	43.39	2.49	57.95	-37.28	10.0	47.2	173	51	-
Hori.	5925.000	PK	48.32	33.06	17.66	43.38	2.49	58.15	-37.08	-27.0	10.0	173	51	-
Vert.	5850.000	PK	49.43	32.94	17.61	43.39	2.49	59.08	-36.15	27.0	63.1	100	260	-
Vert.	5855.000	PK	48.25	32.95	17.61	43.39	2.49	57.91	-37.32	15.6	52.9	100	260	-
Vert.	5875.000	PK	47.93	32.98	17.64	43.39	2.49	57.65	-37.58	10.0	47.5	100	260	-
Vert.	5925.000	PK	47.26	33.06	17.66	43.38	2.49	57.09	-38.14	-27.0	11.1	100	260	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

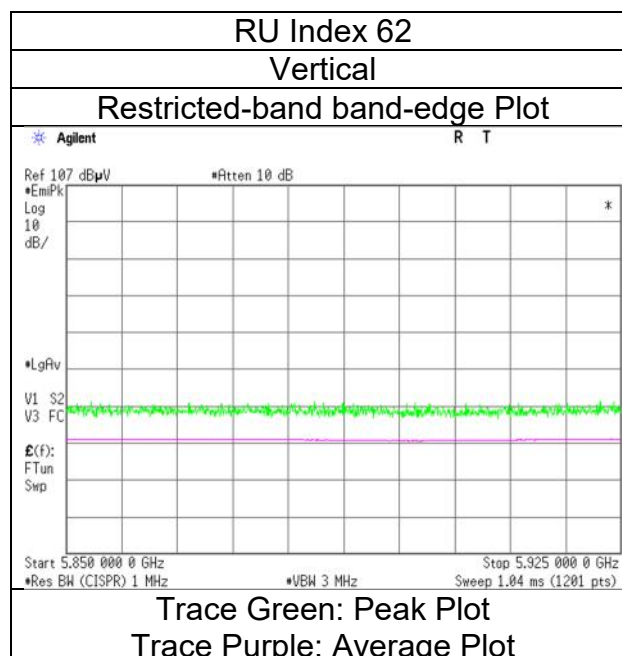
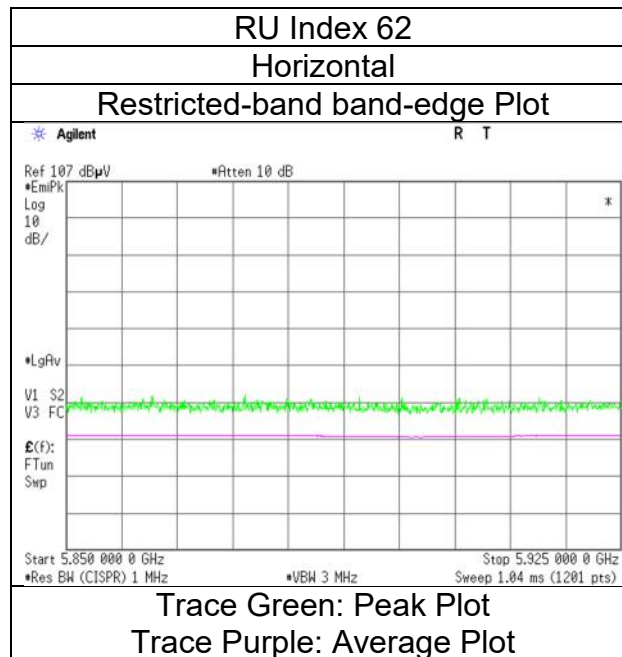
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 242-tone RU, 5795 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 22 deg. C / 35 % RH
Engineer Takahiro Suzuki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5795 MHz With DH5 Hopping

RU Index 65

(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.27	32.94	17.61	43.39	2.49	57.92	-37.31	27.0	64.3	226	232	-
Hori.	5855.000	PK	48.36	32.95	17.61	43.39	2.49	58.02	-37.21	15.6	52.8	226	232	-
Hori.	5875.000	PK	47.93	32.98	17.64	43.39	2.49	57.65	-37.58	10.0	47.5	226	232	-
Hori.	5925.000	PK	47.78	33.06	17.66	43.38	2.49	57.61	-37.62	-27.0	10.6	226	232	-
Vert.	5850.000	PK	48.56	32.94	17.61	43.39	2.49	58.21	-37.02	27.0	64.0	100	316	-
Vert.	5855.000	PK	47.52	32.95	17.61	43.39	2.49	57.18	-38.05	15.6	53.6	100	316	-
Vert.	5875.000	PK	48.21	32.98	17.64	43.39	2.49	57.93	-37.30	10.0	47.3	100	316	-
Vert.	5925.000	PK	47.95	33.06	17.66	43.38	2.49	57.78	-37.45	-27.0	10.4	100	316	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

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

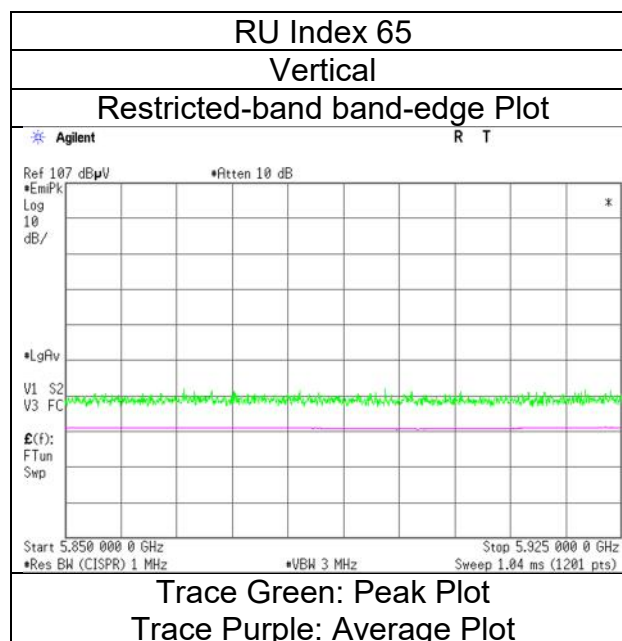
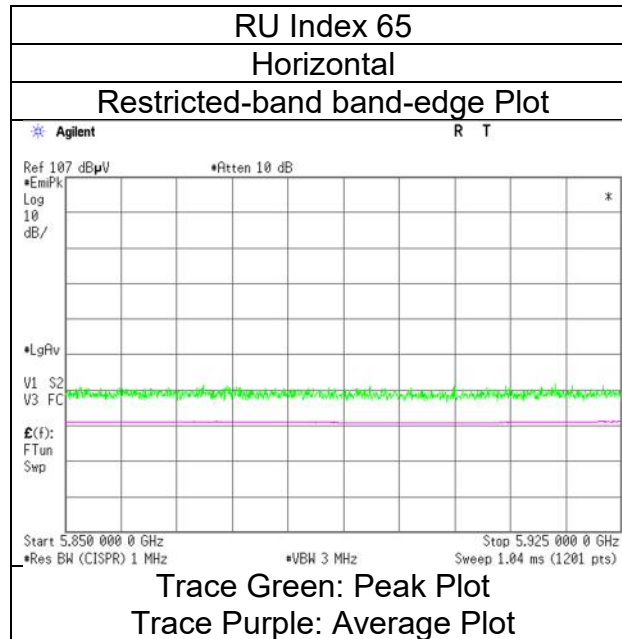
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
22 deg. C / 35 % RH
Takahiro Suzuki
Tx 11ax-40 (OFDMA) 484-tone RU, 5795 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 24 deg. C / 27 % RH
Engineer Shiro Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 5210 MHz With DH5 Hopping

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.57	32.16	17.18	43.07	2.49	58.33	73.9	15.5	228	135	-
Hori.	5150.000	AV	36.74	32.16	17.18	43.07	2.49	45.50	53.9	8.4	228	135	VBW: 10 Hz
Vert.	5150.000	PK	49.26	32.16	17.18	43.07	2.49	58.02	73.9	15.8	194	145	-
Vert.	5150.000	AV	36.72	32.16	17.18	43.07	2.49	45.48	53.9	8.4	194	145	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

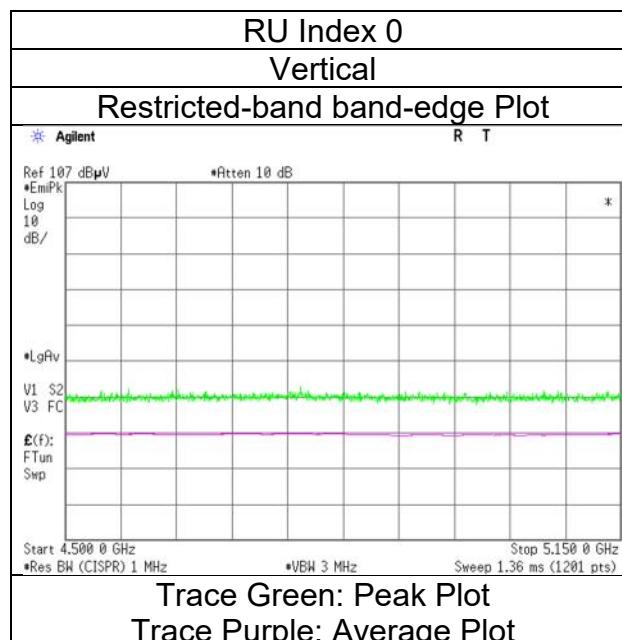
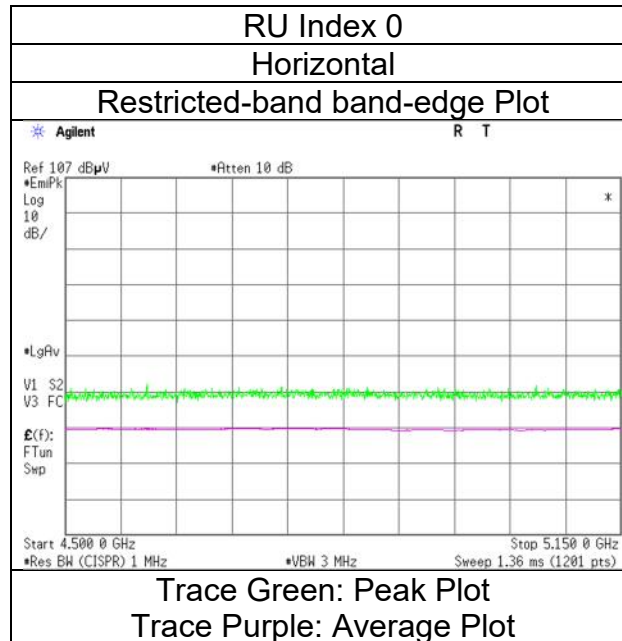
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
24 deg. C / 27 % RH
Shiro Kobayashi
Tx 11ax-80 (OFDMA) 26-tone RU, 5210 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 22, 2023
Temperature / Humidity 24 deg. C / 27 % RH
Engineer Shiro Kobayashi
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 5210 MHz With DH5 Hopping

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.28	32.16	17.18	43.07	2.49	58.04	73.9	15.8	152	129	-
Hori.	5150.000	AV	36.71	32.16	17.18	43.07	2.49	45.47	53.9	8.4	152	129	VBW: 10 Hz
Vert.	5150.000	PK	49.22	32.16	17.18	43.07	2.49	57.98	73.9	15.9	181	141	-
Vert.	5150.000	AV	36.72	32.16	17.18	43.07	2.49	45.48	53.9	8.4	181	141	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

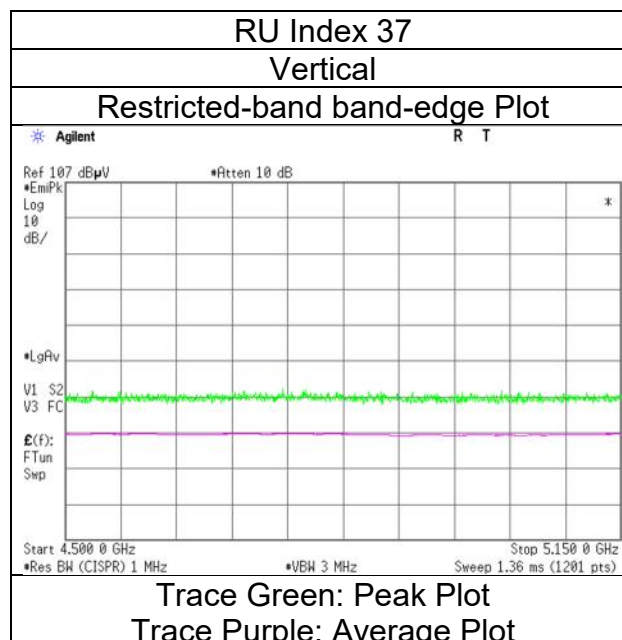
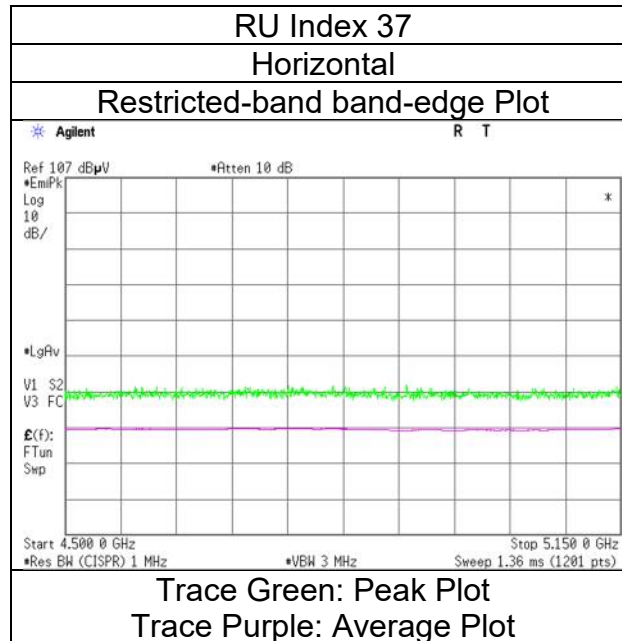
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 22, 2023
24 deg. C / 27 % RH
Shiro Kobayashi
Tx 11ax-80 (OFDMA) 52-tone RU, 5210 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 26, 2023
Temperature / Humidity 25 deg. C / 22 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 5210 MHz With DH5 Hopping

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.57	32.16	17.18	43.07	2.49	57.33	73.9	16.5	148	302	-
Hori.	5150.000	AV	36.23	32.16	17.18	43.07	2.49	44.99	53.9	8.9	148	302	VBW: 10 Hz
Vert.	5150.000	PK	48.40	32.16	17.18	43.07	2.49	57.16	73.9	16.7	298	240	-
Vert.	5150.000	AV	36.16	32.16	17.18	43.07	2.49	44.92	53.9	8.9	298	240	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

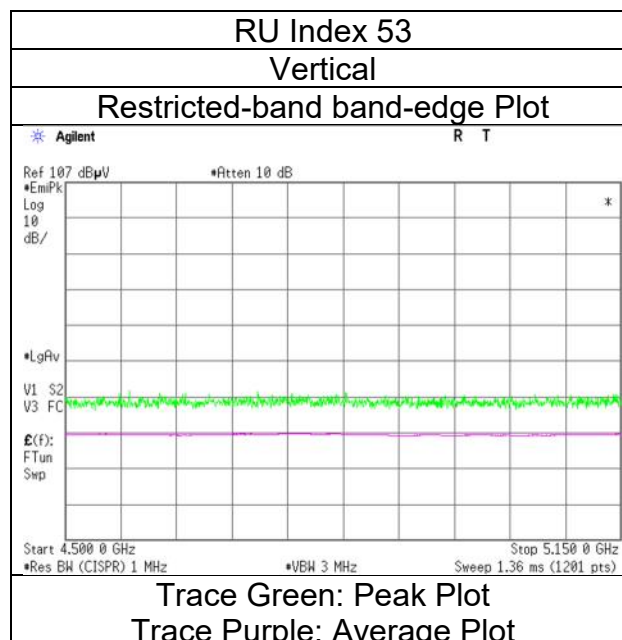
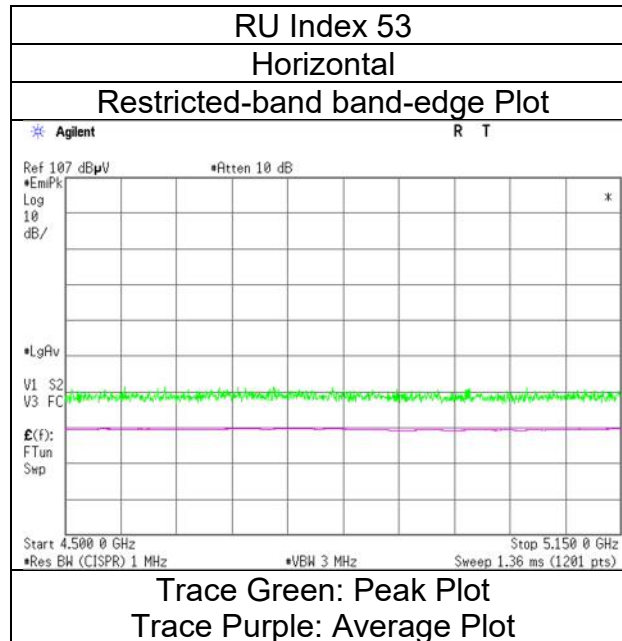
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
December 26, 2023
25 deg. C / 22 % RH
Yasumasa Owaki
Tx 11ax-80 (OFDMA) 106-tone RU, 5210 MHz With DH5 Hopping



* 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 Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 26, 2023
Temperature / Humidity 25 deg. C / 22 % RH
Engineer Yasumasa Owaki
 (1 GHz -6.4 GHz)
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 5210 MHz With DH5 Hopping

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.66	32.16	17.18	43.07	2.49	57.42	73.9	16.4	195	305	-
Hori.	5150.000	AV	36.29	32.16	17.18	43.07	2.49	45.05	53.9	8.8	195	305	VBW: 10 Hz
Vert.	5150.000	PK	48.34	32.16	17.18	43.07	2.49	57.10	73.9	16.8	298	238	-
Vert.	5150.000	AV	36.17	32.16	17.18	43.07	2.49	44.93	53.9	8.9	298	238	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$