

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 6, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	20 deg.C, 50 %RH	22 deg.C, 62 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-40 (SDM) 5670 MHz, Ant 0 + Ant 2				

(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.	11340.000	PK	47.58	37.83	12.12	35.53	-9.54	52.46	73.9	21.4	154	124	-
Hori.	11340.000	AV	34.13	37.83	12.12	35.53	-9.54	39.01	53.9	14.8	154	124	VBW:3 kHz
Vert.	11340.000	PK	46.64	37.83	12.12	35.53	-9.54	51.52	73.9	22.3	158	189	-
Vert.	11340.000	AV	34.07	37.83	12.12	35.53	-9.54	38.95	53.9	14.9	158	189	VBW: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 : 20log (3.94 m / 3.0 m) = 2.37 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.	5725.000	PK	44.84	33.03	14.14	36.13	2.37	58.25	-36.98	-27.0	9.9	258	128	-
Hori.	17010.000	PK	45.33	39.70	15.41	34.11	-9.54	56.79	-38.44	-27.0	11.4	150	0	Floor noise
Vert.	5725.000	PK	45.24	33.03	14.14	36.13	2.37	58.65	-36.58	-27.0	9.5	163	116	-
Vert.	17010.000	PK	45.11	39.70	15.41	34.11	-9.54	56.57	-38.66	-27.0	11.6	150	0	Floor noise

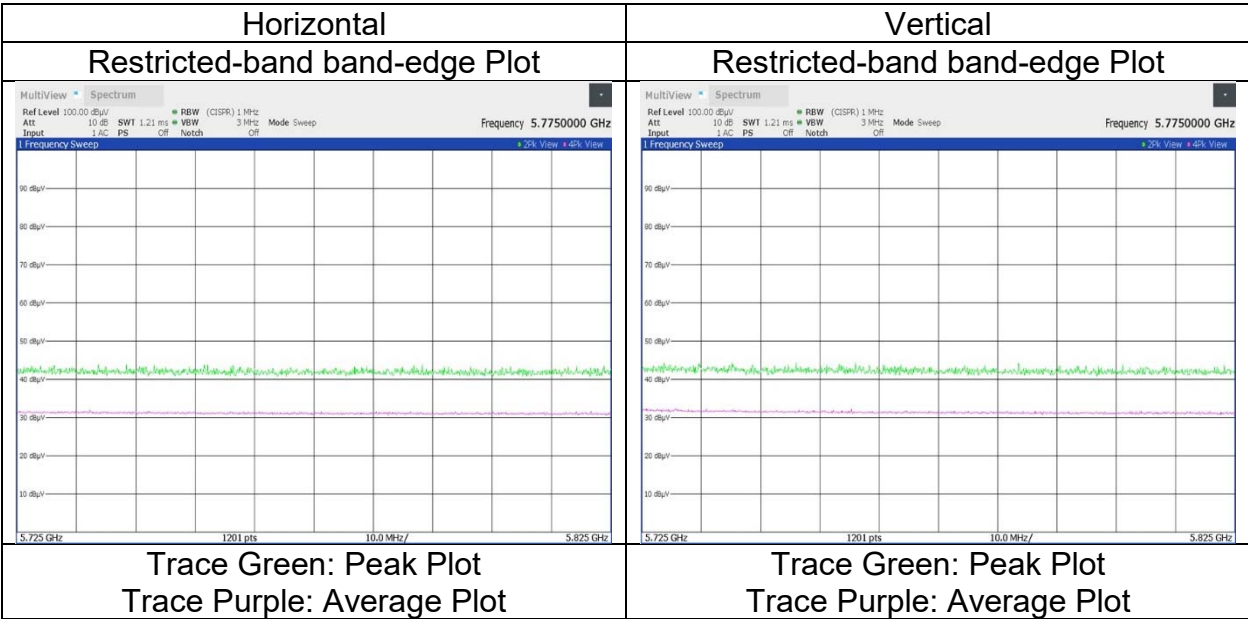
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 6, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	20 deg.C, 50 %RH	22 deg.C, 62 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-40 SDM 5755 MHz, Ant 0 + Ant 2				

(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.	11510.000	PK	47.61	37.94	12.22	35.52	-9.54	52.71	73.9	21.1	149	88	-
Hori.	11510.000	AV	35.48	37.94	12.22	35.52	-9.54	40.58	53.9	13.3	149	88	VBW:3 kHz
Vert.	11510.000	PK	47.26	37.94	12.22	35.52	-9.54	52.36	73.9	21.5	147	188	-
Vert.	11510.000	AV	34.80	37.94	12.22	35.52	-9.54	39.90	53.9	14.0	147	188	VBW: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 : 20log (3.94 m / 3.0 m) = 2.37 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.	5650.000	PK	44.86	32.96	14.10	36.14	2.37	58.15	-37.08	-27.0	10.0	241	126	-
Hori.	5700.000	PK	44.54	33.00	14.12	36.13	2.37	57.90	-37.33	10.0	47.3	241	126	-
Hori.	5720.000	PK	45.47	33.02	14.14	36.13	2.37	58.87	-36.36	15.6	51.9	241	126	-
Hori.	5725.000	PK	46.14	33.03	14.14	36.13	2.37	59.55	-35.68	27.0	62.6	241	126	-
Hori.	17265.000	PK	44.75	40.19	15.50	34.15	-9.54	56.75	-38.48	-27.0	11.4	150	0	Floor noise
Vert.	5650.000	PK	45.25	32.96	14.10	36.14	2.37	58.54	-36.69	-27.0	9.6	142	120	-
Vert.	5700.000	PK	45.52	33.00	14.12	36.13	2.37	58.88	-36.35	10.0	46.3	142	120	-
Vert.	5720.000	PK	46.21	33.02	14.14	36.13	2.37	59.61	-35.62	15.6	51.2	142	120	-
Vert.	5725.000	PK	47.79	33.03	14.14	36.13	2.37	61.20	-34.03	27.0	61.0	142	120	-
Vert.	17265.000	PK	45.37	40.19	15.50	34.15	-9.54	57.37	-37.86	-27.0	10.8	150	0	Floor noise

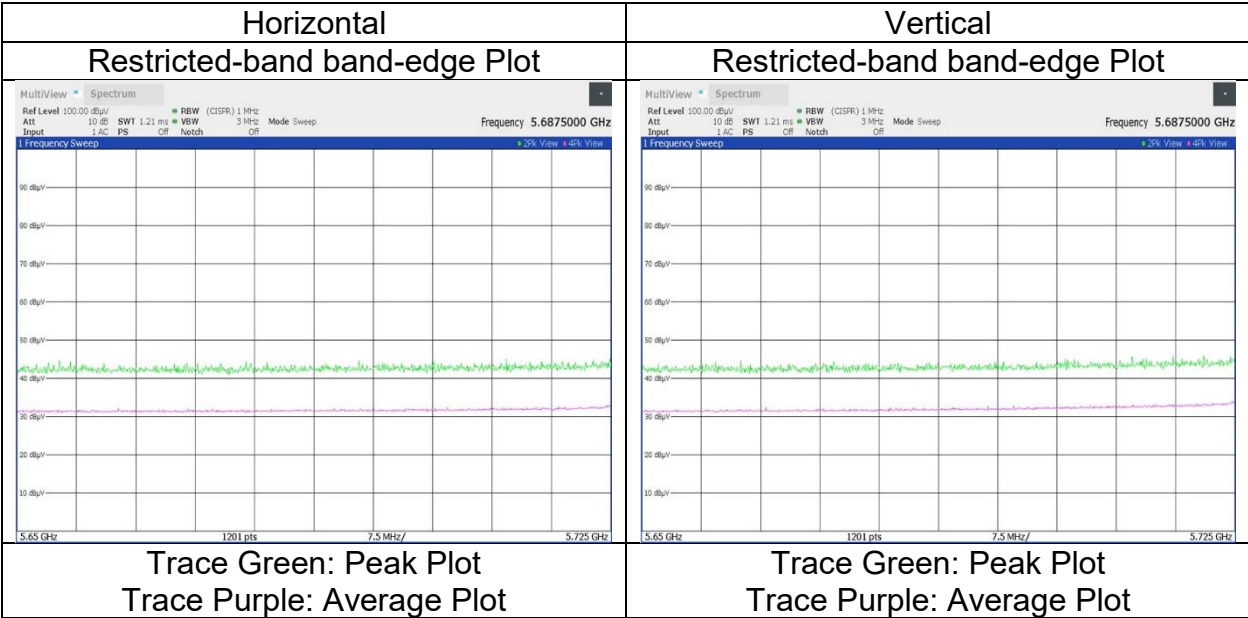
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 6, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	20 deg.C, 50 %RH	22 deg.C, 62 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-40 (SDM) 5795 MHz, Ant 0 + Ant 2				

(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.	11590.000	PK	47.18	37.95	12.28	35.51	-9.54	52.36	73.9	21.5	151	85	-
Hori.	11590.000	AV	35.37	37.95	12.28	35.51	-9.54	40.55	53.9	13.3	151	85	VBW:3 kHz
Vert.	11590.000	PK	47.25	37.95	12.28	35.51	-9.54	52.43	73.9	21.4	144	186	-
Vert.	11590.000	AV	35.51	37.95	12.28	35.51	-9.54	40.69	53.9	13.2	144	186	VBW: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 : 20log (3.94 m / 3.0 m) = 2.37 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.	5850.000	PK	44.98	33.13	14.20	36.12	2.37	58.56	-36.67	27.0	63.6	227	128	-
Hori.	5855.000	PK	44.93	33.14	14.20	36.12	2.37	58.52	-36.71	15.6	52.3	227	128	-
Hori.	5875.000	PK	44.47	33.17	14.21	36.12	2.37	58.10	-37.13	10.0	47.1	227	128	-
Hori.	5925.000	PK	44.79	33.27	14.22	36.12	2.37	58.53	-36.70	-27.0	9.7	227	128	-
Hori.	17385.000	PK	44.69	40.30	15.54	34.17	-9.54	56.82	-38.41	-27.0	11.4	150	0	Floor noise
Vert.	5850.000	PK	45.41	33.13	14.20	36.12	2.37	58.99	-36.24	27.0	63.2	143	121	-
Vert.	5855.000	PK	45.15	33.14	14.20	36.12	2.37	58.74	-36.49	15.6	52.0	143	121	-
Vert.	5875.000	PK	44.81	33.17	14.21	36.12	2.37	58.44	-36.79	10.0	46.7	143	121	-
Vert.	5925.000	PK	44.74	33.27	14.22	36.12	2.37	58.48	-36.75	-27.0	9.7	143	121	-
Vert.	17385.000	PK	45.06	40.30	15.54	34.17	-9.54	57.19	-38.04	-27.0	11.0	150	0	Floor noise

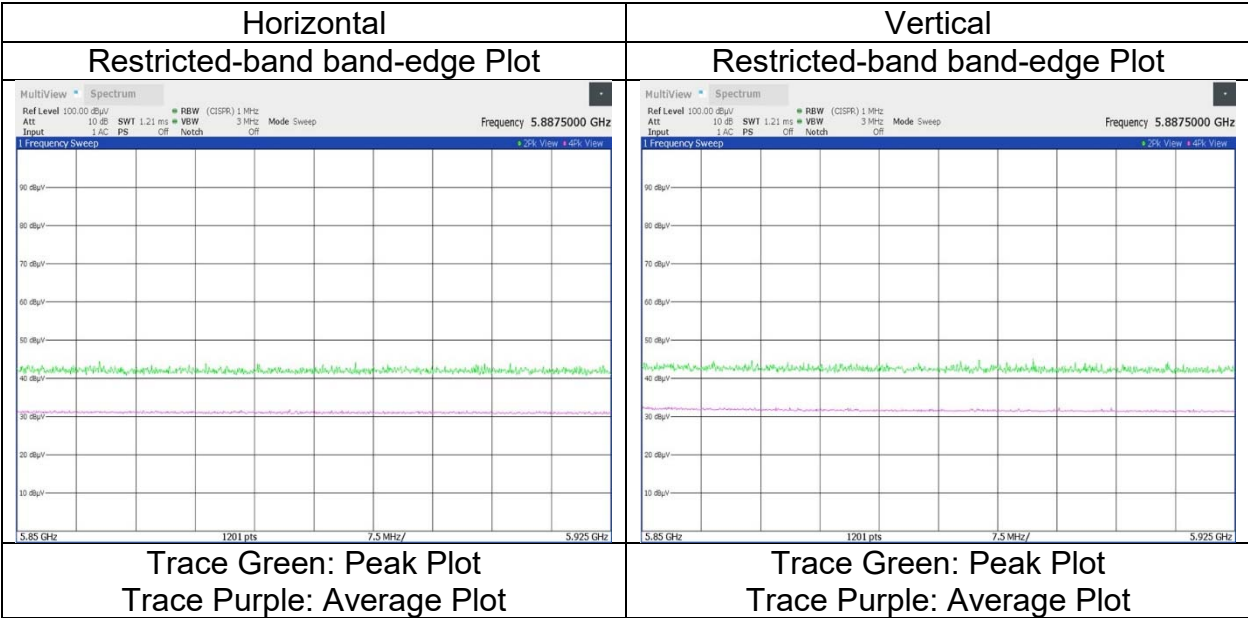
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5190 MHz, Ant 0 + Ant 2		

(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	51.69	32.17	-26.97	-	2.37	59.26	73.9	14.6	145	84	-
Hori.	15570.000	PK	45.71	39.53	-31.23	-	-9.54	44.47	73.9	29.4	150	0	Floor noise
Hori.	5150.000	AV	42.13	32.17	-26.97	-	2.37	49.70	53.9	4.2	145	84	VBW:20 kHz, Floor noise
Hori.	15570.000	AV	36.49	39.53	-31.23	-	-9.54	35.25	53.9	18.6	150	0	VBW:20 kHz, Floor noise
Vert.	5150.000	PK	51.80	32.17	-26.97	-	2.37	59.37	73.9	14.5	256	126	-
Vert.	15570.000	PK	45.75	39.53	-31.23	-	-9.54	44.51	73.9	29.3	150	0	Floor noise
Vert.	5150.000	AV	41.80	32.17	-26.97	-	2.37	49.37	53.9	4.5	256	126	VBW:20 kHz, Floor noise
Vert.	15570.000	AV	36.60	39.53	-31.23	-	-9.54	35.36	53.9	18.5	150	0	VBW:20 kHz, Floor noise

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

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Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 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.	10380.000	PK	46.50	36.23	-33.05	-	-9.54	40.14	-55.09	-27.0	28.0	147	235	-
Vert.	10380.000	PK	48.19	36.23	-33.05	-	-9.54	41.83	-53.40	-27.0	26.4	182	164	-

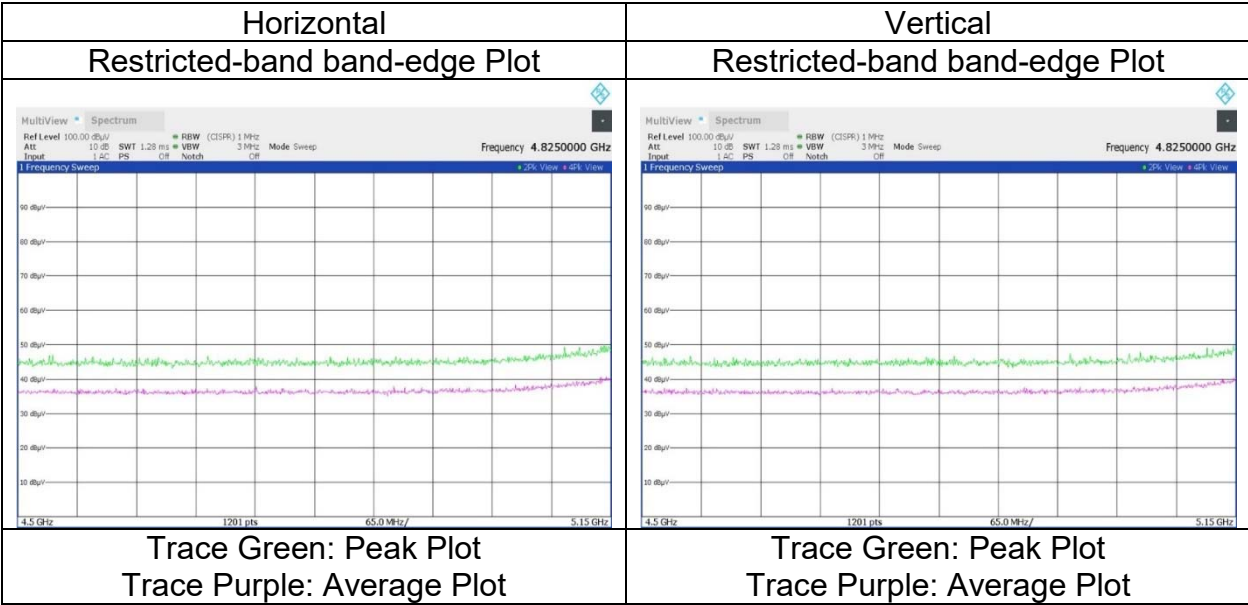
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC2	WAC2	WAC2
Date	December 18, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5230 MHz, Ant 0 + Ant 2		

(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.	15690.000	PK	46.62	39.67	-31.28	-	-9.54	45.47	73.9	28.4	150	0	Floor noise
Hori.	15690.000	AV	36.76	39.67	-31.28	-	-9.54	35.61	53.9	18.2	150	0	VBW:20 kHz, Floor noise
Vert.	15690.000	PK	46.36	39.67	-31.28	-	-9.54	45.21	73.9	28.6	150	0	Floor noise
Vert.	15690.000	AV	36.90	39.67	-31.28	-	-9.54	35.75	53.9	18.1	150	0	VBW:20 kHz, Floor noise

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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	10460.000	PK	47.45	36.36	-32.90	-	-9.54	41.37	-53.86	-27.0	26.8	150	239	-
Vert.	10460.000	PK	49.54	36.36	-32.90	-	-9.54	43.46	-51.77	-27.0	24.7	182	233	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5310 MHz, Ant 0 + Ant 2		

(above 1 GHz Inside of the restricted band)

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

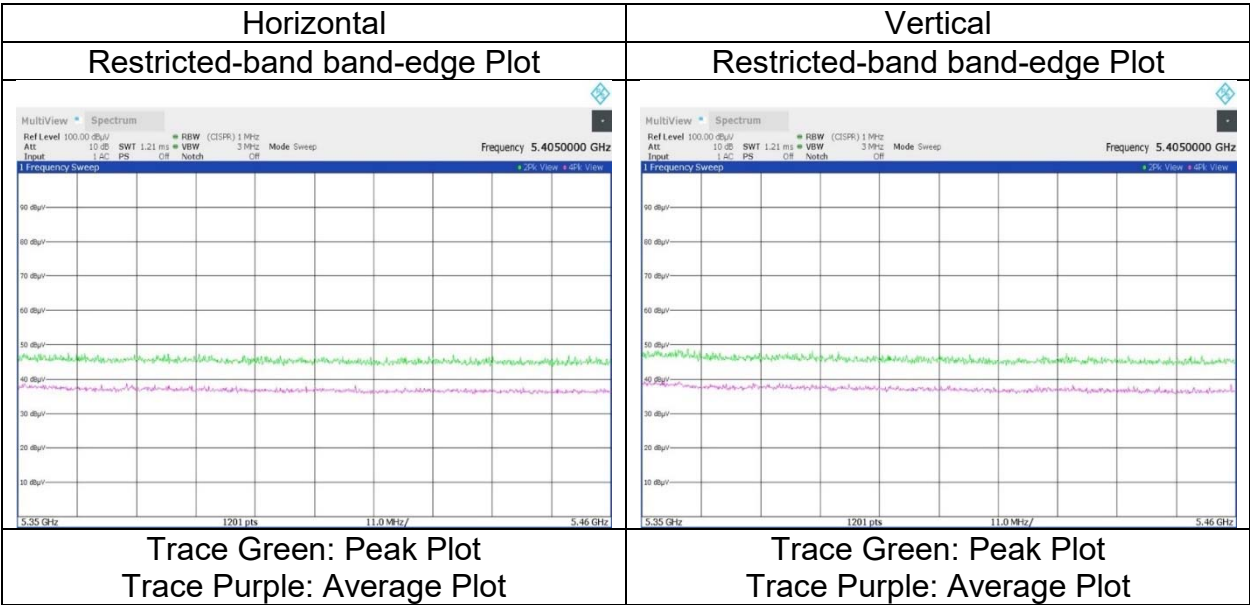
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.63	32.16	-26.77	-	2.37	55.39	73.9	18.5	154	80	-
Hori.	10620.000	PK	48.17	36.94	-32.78	-	-9.54	42.79	73.9	31.1	151	242	-
Hori.	15930.000	PK	46.30	39.94	-31.39	-	-9.54	45.31	73.9	28.5	150	0	Floor noise
Hori.	5350.000	AV	38.76	32.16	-26.77	-	2.37	46.52	53.9	7.3	154	80	VBW:20 kHz
Hori.	10620.000	AV	38.87	36.94	-32.78	-	-9.54	33.49	53.9	20.4	151	242	VBW:20 kHz
Hori.	15930.000	AV	36.67	39.94	-31.39	-	-9.54	35.68	53.9	18.2	150	0	VBW:20 kHz, Floor noise
Vert.	5350.000	PK	48.78	32.16	-26.77	-	2.37	56.54	73.9	17.3	159	114	-
Vert.	10620.000	PK	47.13	36.94	-32.78	-	-9.54	41.75	73.9	32.1	136	161	-
Vert.	15930.000	PK	46.02	39.94	-31.39	-	-9.54	45.03	73.9	28.8	150	0	Floor noise
Vert.	5350.000	AV	39.40	32.16	-26.77	-	2.37	47.16	53.9	6.7	159	114	VBW:20 kHz
Vert.	10620.000	AV	38.27	36.94	-32.78	-	-9.54	32.89	53.9	21.0	136	161	VBW:20 kHz
Vert.	15930.000	AV	36.56	39.94	-31.39	-	-9.54	35.57	53.9	18.3	150	0	VBW:20 kHz, Floor noise

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5510 MHz, Ant 0 + Ant 2		

(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.	11020.000	PK	50.14	37.41	-32.65	-	-9.54	45.36	73.9	28.5	149	233	-
Hori.	5460.000	AV	38.69	32.46	-26.65	-	2.37	46.87	53.9	7.0	158	120	VBW:20 kHz
Hori.	11020.000	AV	40.79	37.41	-32.65	-	-9.54	36.01	53.9	17.8	149	233	VBW:20 kHz
Vert.	11020.000	PK	49.14	37.41	-32.65	-	-9.54	44.36	73.9	29.5	153	174	-
Vert.	5460.000	AV	39.56	32.46	-26.65	-	2.37	47.74	53.9	6.1	192	116	VBW:20 kHz
Vert.	11020.000	AV	40.05	37.41	-32.65	-	-9.54	35.27	53.9	18.6	153	174	VBW:20 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 : 20log (3.94 m / 3.0 m) = 2.37 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.	5460.000	PK	48.36	32.46	-26.65	-	2.37	56.54	-38.69	-27.0	11.6	158	120	-
Hori.	5470.000	PK	49.44	32.49	-26.64	-	2.37	57.66	-37.57	-27.0	10.5	158	120	-
Hori.	16530.000	PK	47.55	39.74	-30.58	-	-9.54	47.17	-48.06	-27.0	21.0	150	0	Floor noise
Vert.	5460.000	PK	49.68	32.46	-26.65	-	2.37	57.86	-37.37	-27.0	10.3	192	116	-
Vert.	5470.000	PK	49.85	32.49	-26.64	-	2.37	58.07	-37.16	-27.0	10.1	192	116	-
Vert.	16530.000	PK	47.46	39.74	-30.58	-	-9.54	47.08	-48.15	-27.0	21.1	150	0	Floor noise

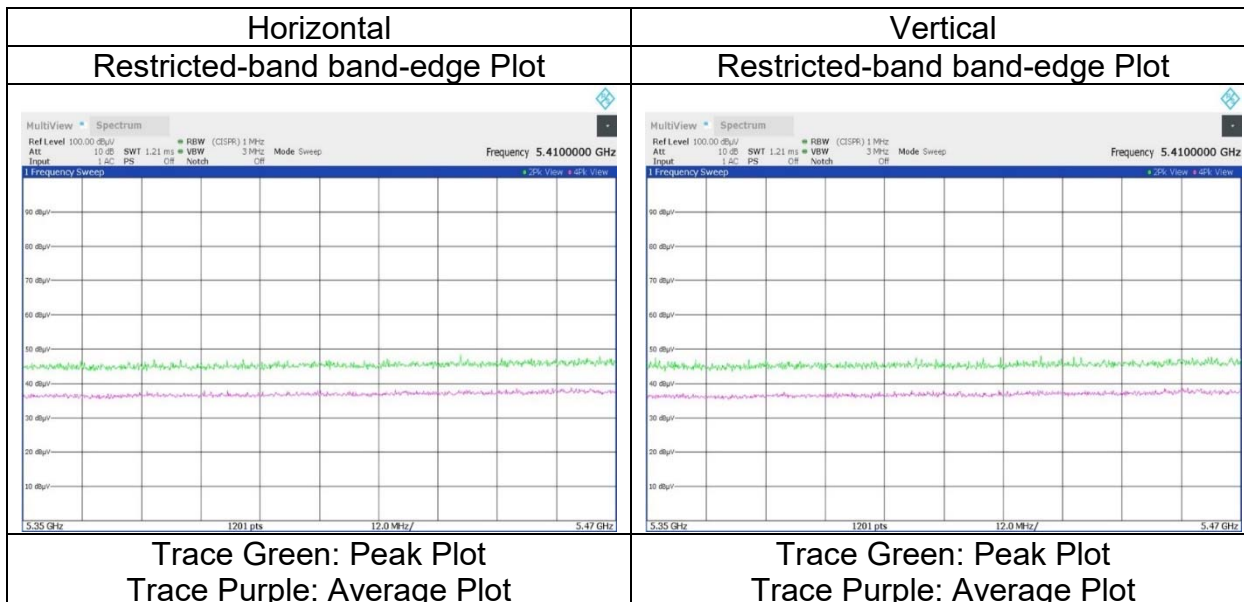
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5550 MHz, Ant 0 + Ant 2		

(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.	11100.000	PK	49.90	37.44	-32.59	-	-9.54	45.21	73.9	28.6	158	232	-
Hori.	11100.000	AV	41.71	37.44	-32.59	-	-9.54	37.02	53.9	16.8	158	232	VBW:20 kHz
Vert.	11100.000	PK	49.16	37.44	-32.59	-	-9.54	44.47	73.9	29.4	153	176	-
Vert.	11100.000	AV	40.55	37.44	-32.59	-	-9.54	35.86	53.9	18.0	153	176	VBW:20 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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	16650.000	PK	47.38	39.50	-30.53	-	-9.54	46.81	-48.42	-27.0	21.4	150	0	Floor noise
Vert.	16650.000	PK	47.50	39.50	-30.53	-	-9.54	46.93	-48.30	-27.0	21.3	150	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5670 MHz, Ant 0 + Ant 2		

(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.	11340.000	PK	50.32	37.83	-32.41	-	-9.54	46.20	73.9	27.7	155	233	-
Hori.	11340.000	AV	41.94	37.83	-32.41	-	-9.54	37.82	53.9	16.0	155	233	VBW:20 kHz
Vert.	11340.000	PK	50.92	37.83	-32.41	-	-9.54	46.80	73.9	27.1	154	204	-
Vert.	11340.000	AV	42.92	37.83	-32.41	-	-9.54	38.80	53.9	15.1	154	204	VBW:20 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 : 20log (3.94 m / 3.0 m) = 2.37 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.	5725.000	PK	49.29	33.03	-26.55	-	2.37	58.14	-37.09	-27.0	10.0	168	107	-
Hori.	17010.000	PK	47.48	39.70	-30.37	-	-9.54	47.27	-47.96	-27.0	20.9	150	0	Floor noise
Vert.	5725.000	PK	49.60	33.03	-26.55	-	2.37	58.45	-36.78	-27.0	9.7	181	128	-
Vert.	17010.000	PK	47.40	39.70	-30.37	-	-9.54	47.19	-48.04	-27.0	21.0	150	0	Floor noise

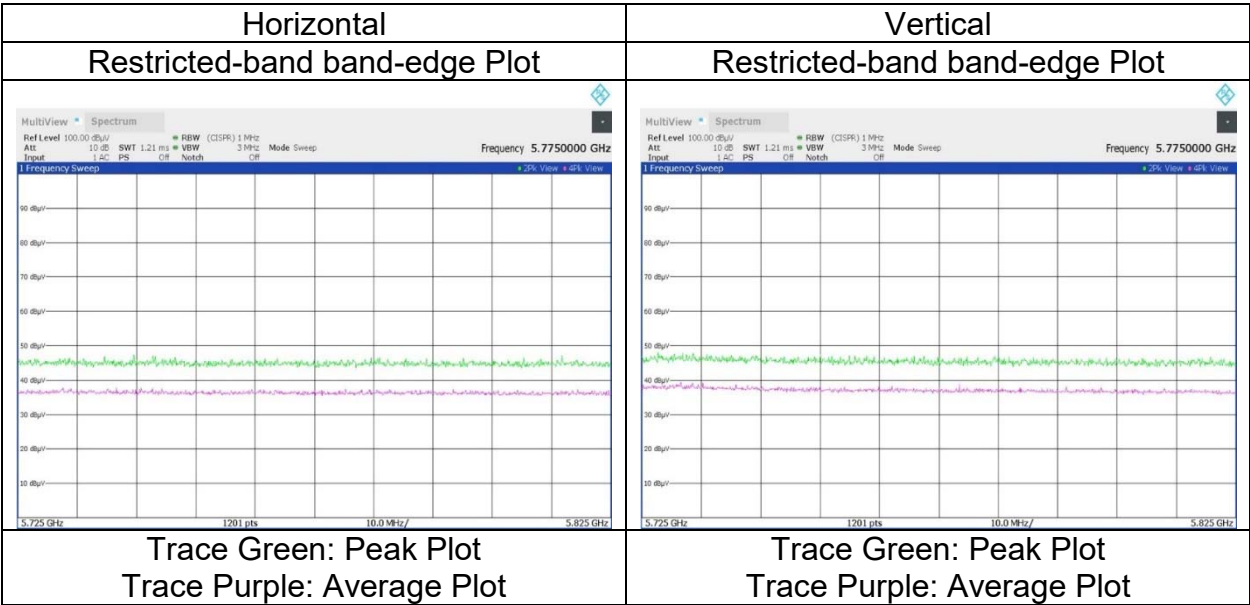
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5755 MHz, Ant 0 + Ant 2		

(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.	11510.000	PK	51.67	37.94	-32.30	-	-9.54	47.77	73.9	26.1	210	340	-
Hori.	11510.000	AV	44.80	37.94	-32.30	-	-9.54	40.90	53.9	13.0	210	340	VBW:20 kHz
Vert.	11510.000	PK	51.63	37.94	-32.30	-	-9.54	47.73	73.9	26.1	139	190	-
Vert.	11510.000	AV	44.79	37.94	-32.30	-	-9.54	40.89	53.9	13.0	139	190	VBW:20 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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	5650.000	PK	49.61	32.96	-26.58	-	2.37	58.36	-36.87	-27.0	9.8	169	100	-
Hori.	5700.000	PK	50.03	33.00	-26.56	-	2.37	58.84	-36.39	10.0	46.3	169	100	-
Hori.	5720.000	PK	50.00	33.02	-26.55	-	2.37	58.84	-36.39	15.6	51.9	169	100	-
Hori.	5725.000	PK	50.05	33.03	-26.55	-	2.37	58.90	-36.33	27.0	63.3	169	100	-
Hori.	17265.000	PK	47.69	40.19	-30.13	-	-9.54	48.21	-47.02	-27.0	20.0	150	0	Floor noise
Vert.	5650.000	PK	50.62	32.96	-26.58	-	2.37	59.37	-35.86	-27.0	8.8	156	117	-
Vert.	5700.000	PK	50.43	33.00	-26.56	-	2.37	59.24	-35.99	10.0	45.9	156	117	-
Vert.	5720.000	PK	52.29	33.02	-26.55	-	2.37	61.13	-34.10	15.6	49.7	156	117	-
Vert.	5725.000	PK	52.67	33.03	-26.55	-	2.37	61.52	-33.71	27.0	60.7	156	117	-
Vert.	17265.000	PK	47.68	40.19	-30.13	-	-9.54	48.20	-47.03	-27.0	20.0	150	0	Floor noise

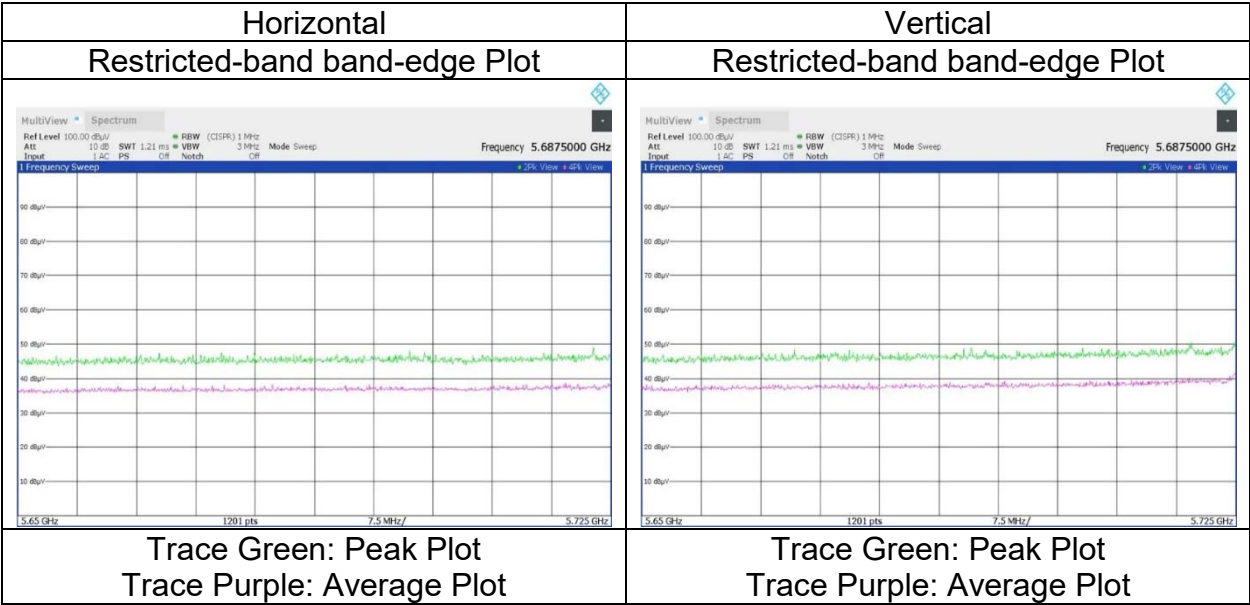
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 (OFDM)(SDM) 5795 MHz, Ant 0 + Ant 2		

(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.	11590.000	PK	50.22	37.95	-32.32	-	-9.54	46.31	73.9	27.5	158	199	-
Hori.	11590.000	AV	42.68	37.95	-32.32	-	-9.54	38.77	53.9	15.1	158	199	VBW:20 kHz
Vert.	11590.000	PK	52.00	37.95	-32.32	-	-9.54	48.09	73.9	25.8	138	185	-
Vert.	11590.000	AV	44.45	37.95	-32.32	-	-9.54	40.54	53.9	13.3	138	185	VBW:20 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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	5850.000	PK	50.24	33.13	-26.51	-	2.37	59.23	-36.00	27.0	63.0	174	98	-
Hori.	5855.000	PK	50.31	33.14	-26.51	-	2.37	59.31	-35.92	15.6	51.5	174	98	-
Hori.	5875.000	PK	49.87	33.17	-26.51	-	2.37	58.90	-36.33	10.0	46.3	174	98	-
Hori.	5925.000	PK	49.91	33.27	-26.50	-	2.37	59.05	-36.18	-27.0	9.1	174	98	-
Hori.	17385.000	PK	47.16	40.30	-30.02	-	-9.54	47.90	-47.33	-27.0	20.3	150	0	Floor noise
Vert.	5850.000	PK	50.23	33.13	-26.51	-	2.37	59.22	-36.01	27.0	63.0	151	113	-
Vert.	5855.000	PK	50.93	33.14	-26.51	-	2.37	59.93	-35.30	15.6	50.9	151	113	-
Vert.	5875.000	PK	50.72	33.17	-26.51	-	2.37	59.75	-35.48	10.0	45.4	151	113	-
Vert.	5925.000	PK	50.79	33.27	-26.50	-	2.37	59.93	-35.30	-27.0	8.3	151	113	-
Vert.	17385.000	PK	47.24	40.30	-30.02	-	-9.54	47.98	-47.25	-27.0	20.2	150	0	Floor noise

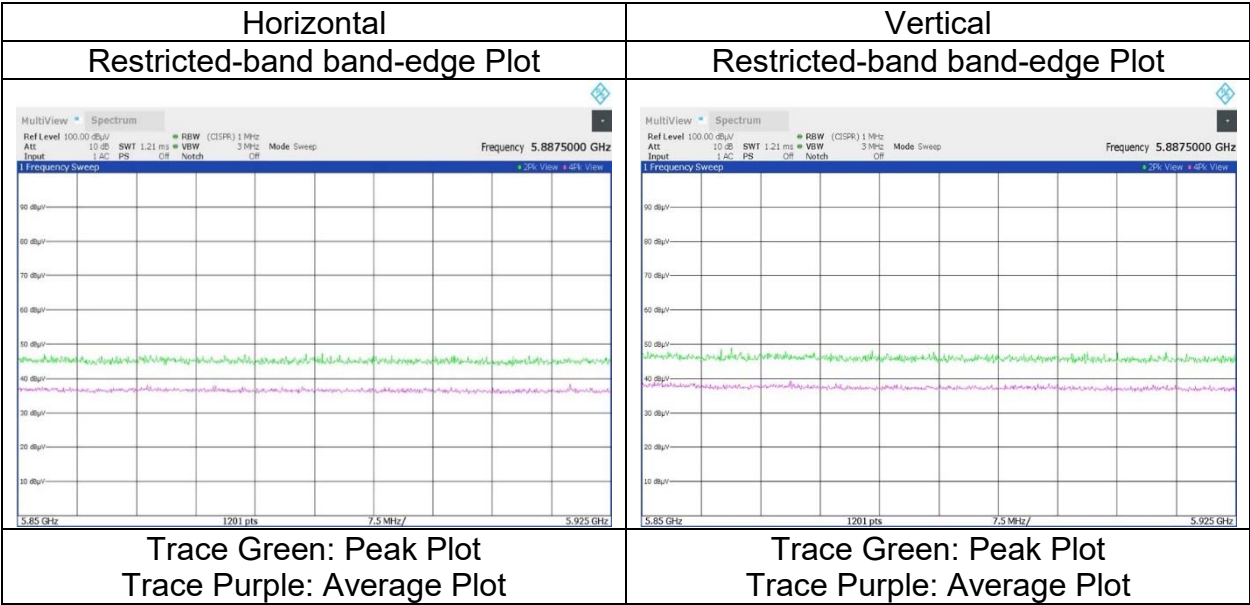
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



* 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 6, 2023	November 21, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	20 deg.C, 50 %RH	22 deg.C, 62 %RH	21 deg.C, 46 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Hiromasa Sato	Kenichi Adachi	Kenichi Adachi	Kenichi Adachi
Mode	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11ac-80 (SDM) 5210 MHz, Ant 0 + Ant 2				

(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	46.88	32.17	-22.20	-	2.37	59.22	73.9	14.6	180	80	-
Hori.	15630.000	PK	46.55	39.55	-26.93	-	-9.54	49.63	73.9	24.2	150	0	-
Hori.	5150.000	AV	36.24	32.17	-22.20	-	2.37	48.58	53.9	5.3	180	80	VBW:10 kHz
Hori.	15630.000	AV	34.98	39.55	-26.93	-	-9.54	38.06	53.9	15.8	150	0	VBW:10 kHz, Floor noise
Vert.	5150.000	PK	46.44	32.17	-22.20	-	2.37	58.78	73.9	15.1	165	111	-
Vert.	15630.000	PK	46.43	39.55	-26.93	-	-9.54	49.51	73.9	24.3	150	0	-
Vert.	5150.000	AV	36.23	32.17	-22.20	-	2.37	48.57	53.9	5.3	165	111	VBW:10 kHz
Vert.	15630.000	AV	34.91	39.55	-26.93	-	-9.54	37.99	53.9	15.9	150	0	VBW:10 kHz, Floor noise

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 (3.94 m / 3.0 m) = 2.37 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.	10420.000	PK	48.08	36.31	-29.12	-	-9.54	45.73	-49.50	-27.0	22.5	163	82	-
Vert.	10420.000	PK	47.11	36.31	-29.12	-	-9.54	44.76	-50.47	-27.0	23.4	171	163	-

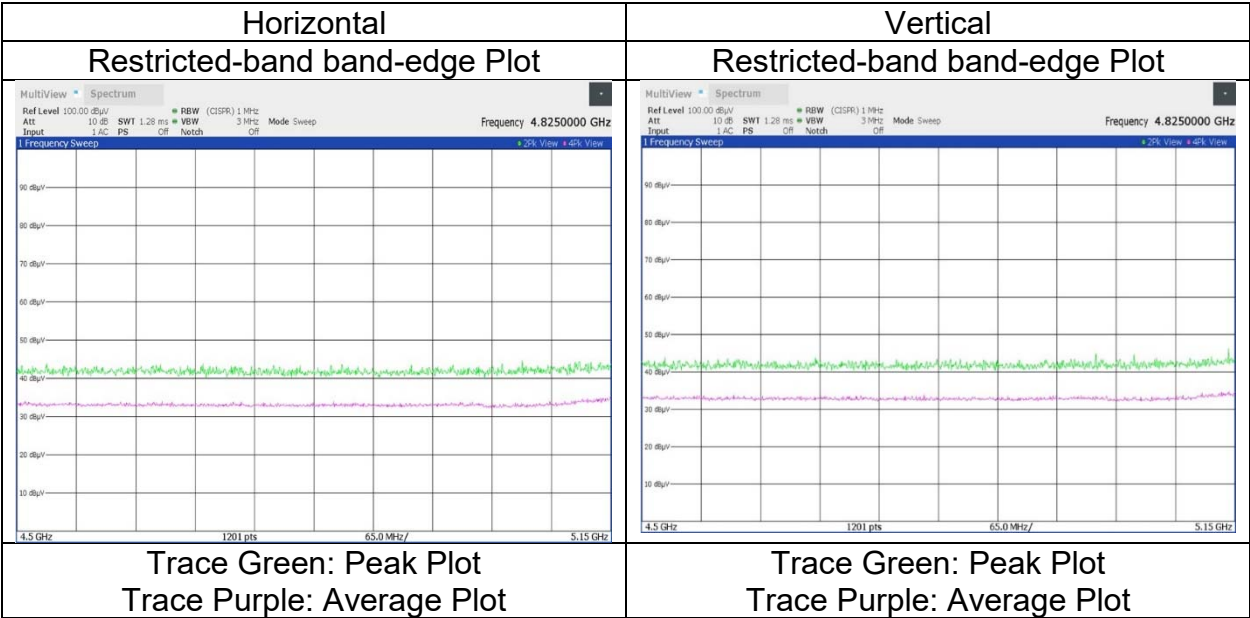
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 6, 2023	November 21, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	20 deg.C, 50 %RH	22 deg.C, 62 %RH	21 deg.C, 46 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Hiromasa Sato	Kenichi Adachi	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-80 (SDM) 5290 MHz, Ant 0 + Ant 2				

(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	45.35	32.16	13.97	36.13	2.37	57.72	73.9	16.1	154	78	-
Hori.	15870.000	PK	46.31	39.85	8.34	35.31	-9.54	49.65	73.9	24.2	150	0	Floor noise
Hori.	5350.000	AV	34.65	32.16	13.97	36.13	2.37	47.02	53.9	6.8	154	78	VBW:10 kHz
Hori.	15870.000	AV	34.88	39.85	8.34	35.31	-9.54	38.22	53.9	15.6	150	0	VBW:10 kHz, Floor noise
Vert.	5350.000	PK	45.95	32.16	13.97	36.13	2.37	58.32	73.9	15.5	185	117	-
Vert.	15870.000	PK	46.24	39.85	8.34	35.31	-9.54	49.58	73.9	24.3	150	0	Floor noise
Vert.	5350.000	AV	35.24	32.16	13.97	36.13	2.37	47.61	53.9	6.2	185	117	VBW:10 kHz
Vert.	15870.000	AV	34.82	39.85	8.34	35.31	-9.54	38.16	53.9	15.7	150	0	VBW:10 kHz, Floor noise

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 (3.94 m / 3.0 m) = 2.37 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.	10580.000	PK	47.26	36.78	6.76	35.75	-9.54	45.51	-49.72	-27.0	22.7	162	84	-
Vert.	10580.000	PK	46.48	36.78	6.76	35.75	-9.54	44.73	-50.50	-27.0	23.5	167	165	-

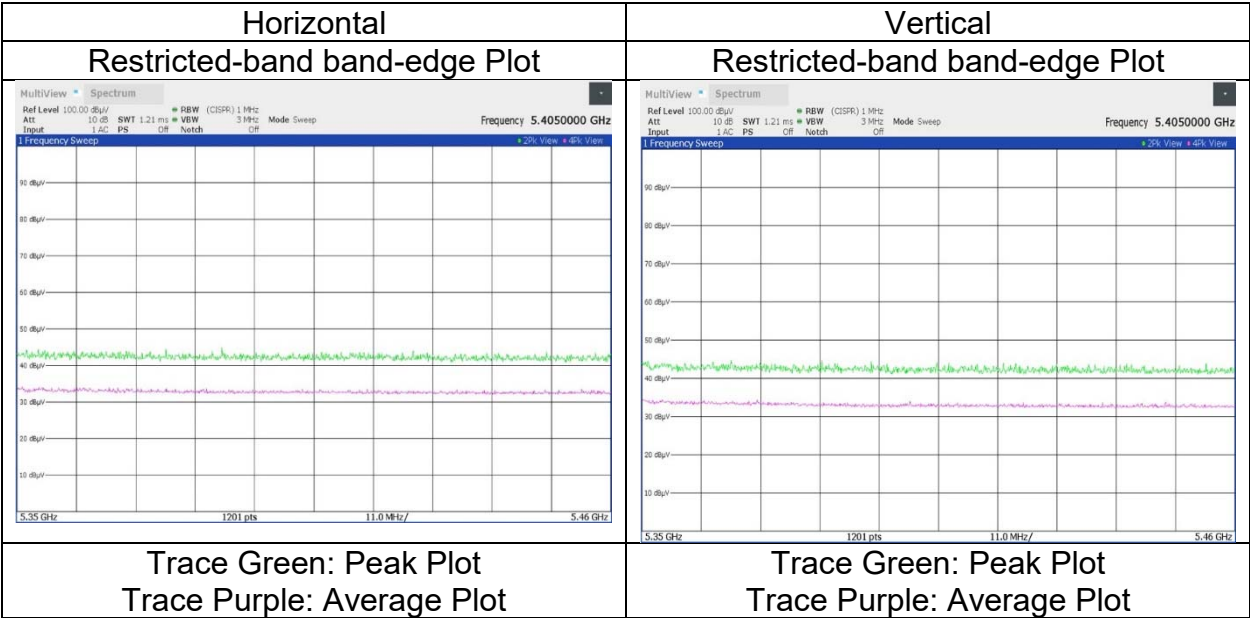
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 6, 2023	November 21, 2023	November 29, 2023	November 30, 2023	
Temperature / Humidity	20 deg.C, 50 %RH	22 deg.C, 62 %RH	21 deg.C, 46 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH	
Engineer	Miku Ikudome	Hiromasa Sato	Kenichi Adachi	Kenichi Adachi	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11ac-80 (SDM) 5530 MHz, Ant 0 + Ant 2					

(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.	11060.000	PK	49.04	37.40	-28.70	-	-9.54	48.20	73.9	25.7	187	79	-
Hori.	5460.000	AV	34.45	32.46	-22.11	-	2.37	47.17	53.9	6.7	169	111	VBW:10 kHz
Hori.	11060.000	AV	38.44	37.40	-28.70	-	-9.54	37.60	53.9	16.3	187	79	VBW:10 kHz
Vert.	11060.000	PK	47.50	37.40	-28.70	-	-9.54	46.66	73.9	27.2	171	146	-
Vert.	5460.000	AV	33.98	32.46	-22.11	-	2.37	46.70	53.9	7.2	202	119	VBW:10 kHz
Vert.	11060.000	AV	36.68	37.40	-28.70	-	-9.54	35.84	53.9	18.0	171	146	VBW:10 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 : 20log (3.94 m / 3.0 m) = 2.37 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.	5460.000	PK	44.53	32.46	-22.11	-	2.37	57.25	-37.98	-27.0	10.9	169	111	-
Hori.	5470.000	PK	45.10	32.49	-22.12	-	2.37	57.84	-37.39	-27.0	10.3	169	111	-
Hori.	5725.000	PK	43.99	33.03	-21.99	-	2.37	57.40	-37.83	-27.0	10.8	169	111	-
Hori.	16590.000	PK	45.84	39.60	-25.98	-	-9.54	49.92	-45.31	-27.0	18.3	150	0	Floor noise
Vert.	5460.000	PK	44.32	32.46	-22.11	-	2.37	57.04	-38.19	-27.0	11.1	202	119	-
Vert.	5470.000	PK	45.11	32.49	-22.12	-	2.37	57.85	-37.38	-27.0	10.3	202	119	-
Vert.	5725.000	PK	44.08	33.03	-21.99	-	2.37	57.49	-37.74	-27.0	10.7	202	119	-
Vert.	16590.000	PK	45.78	39.60	-25.98	-	-9.54	49.86	-45.37	-27.0	18.3	150	0	Floor noise

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)

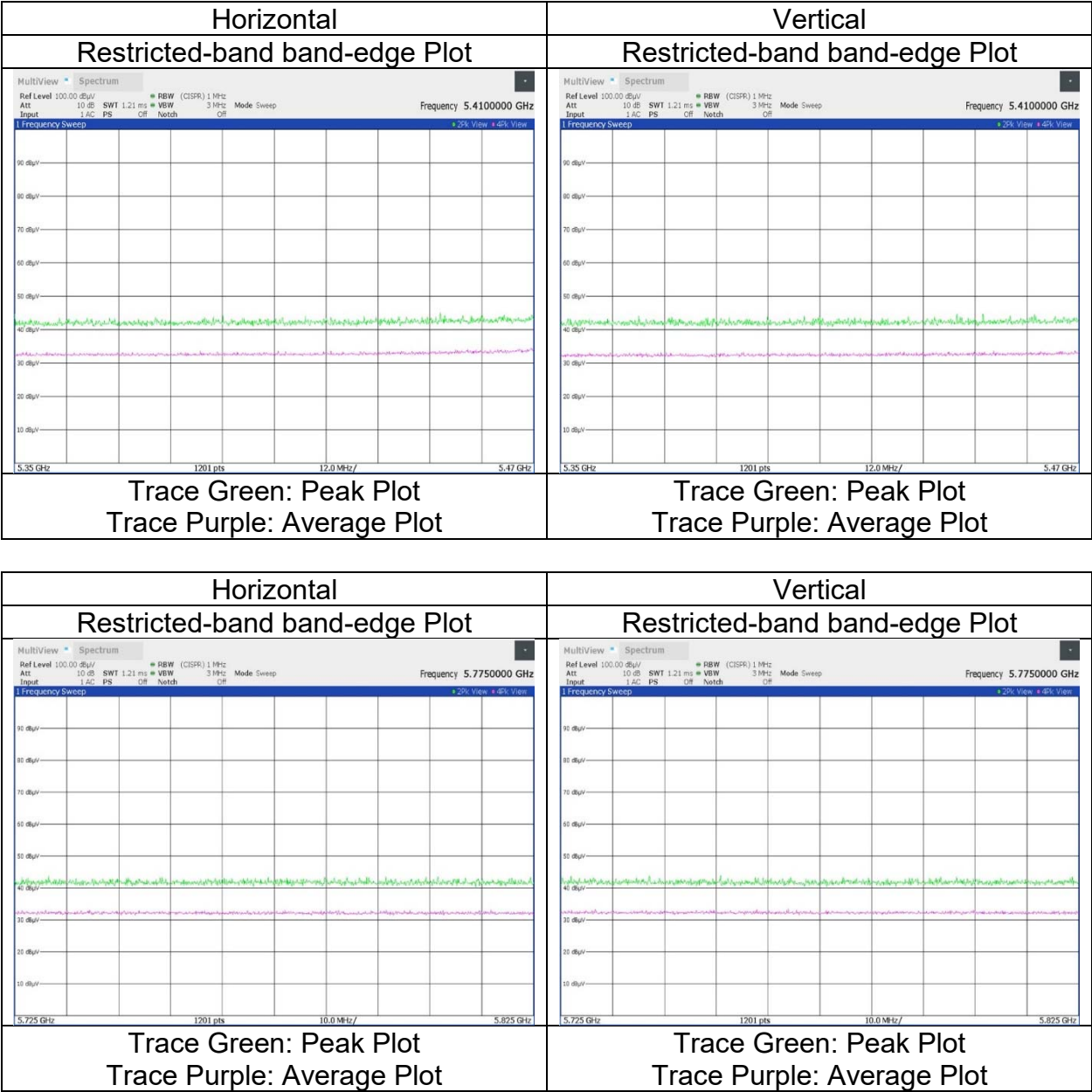
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 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	WAC2
Date	November 1, 2023
Temperature / Humidity	20 deg.C, 50 %RH
Engineer	Miku Ikudome
Mode	Tx 11ac-80 (SDM) 5530 MHz, Ant 0 + Ant 2



* 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 WAC2 WAC2 WAC2 WAC2 WAC2
Date November 1, 2023 November 6, 2023 November 21, 2023 November 29, 2023 November 30, 2023
Temperature / Humidity 20 deg.C, 50 %RH 22 deg.C, 62 %RH 21 deg.C, 46 %RH 21 deg.C, 38 %RH 21 deg.C, 37 %RH
Engineer Miku Ikudome Hiromasa Sato Kenichi Adachi Kenichi Adachi Kenichi Adachi
(1 GHz -6.4 GHz) (6.4 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)
Mode Tx 11ac-80 (SDM) 5775 MHz, Ant 0 + Ant 2

(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.	11550.000	PK	49.06	37.94	7.06	35.52	-9.54	49.00	73.9	24.9	177	76	-
Hori.	11550.000	AV	38.44	37.94	7.06	35.52	-9.54	38.38	53.9	15.5	177	76	VBW:10 kHz
Vert.	11550.000	PK	48.98	37.94	7.06	35.52	-9.54	48.92	73.9	24.9	169	187	-
Vert.	11550.000	AV	38.20	37.94	7.06	35.52	-9.54	38.14	53.9	15.7	169	187	VBW:10 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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	5650.000	PK	44.28	32.96	14.10	36.14	2.37	57.57	-37.66	-27.0	10.6	125	211	-
Hori.	5700.000	PK	44.96	33.00	14.12	36.13	2.37	58.32	-36.91	10.0	46.9	125	211	-
Hori.	5720.000	PK	45.39	33.02	14.14	36.13	2.37	58.79	-36.44	15.6	52.0	125	211	-
Hori.	5725.000	PK	45.53	33.03	14.14	36.13	2.37	58.94	-36.29	27.0	63.2	125	211	-
Hori.	5850.000	PK	44.63	33.13	14.20	36.12	2.37	58.21	-37.02	27.0	64.0	125	211	-
Hori.	5855.000	PK	44.41	33.14	14.20	36.12	2.37	58.00	-37.23	15.6	52.8	125	211	-
Hori.	5875.000	PK	44.53	33.17	14.21	36.12	2.37	58.16	-37.07	10.0	47.0	125	211	-
Hori.	5925.000	PK	43.23	33.27	14.22	36.12	2.37	56.97	-38.26	-27.0	11.2	125	211	-
Hori.	17325.000	PK	45.10	40.28	9.06	34.16	-9.54	50.74	-44.49	-27.0	17.4	150	0	Floor noise
Vert.	5650.000	PK	44.72	32.96	14.10	36.14	2.37	58.01	-37.22	-27.0	10.2	141	125	-
Vert.	5700.000	PK	45.47	33.00	14.12	36.13	2.37	58.83	-36.40	10.0	46.4	141	125	-
Vert.	5720.000	PK	45.77	33.02	14.14	36.13	2.37	59.17	-36.06	15.6	51.6	141	125	-
Vert.	5725.000	PK	46.75	33.03	14.14	36.13	2.37	60.16	-35.07	27.0	62.0	141	125	-
Vert.	5850.000	PK	45.63	33.13	14.20	36.12	2.37	59.21	-36.02	27.0	63.0	141	125	-
Vert.	5855.000	PK	44.90	33.14	14.20	36.12	2.37	58.49	-36.74	15.6	52.3	141	125	-
Vert.	5875.000	PK	44.56	33.17	14.21	36.12	2.37	58.19	-37.04	10.0	47.0	141	125	-
Vert.	5925.000	PK	44.04	33.27	14.22	36.12	2.37	57.78	-37.45	-27.0	10.4	141	125	-
Vert.	17325.000	PK	45.18	40.28	9.06	34.16	-9.54	50.82	-44.41	-27.0	17.4	150	0	Floor noise

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

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

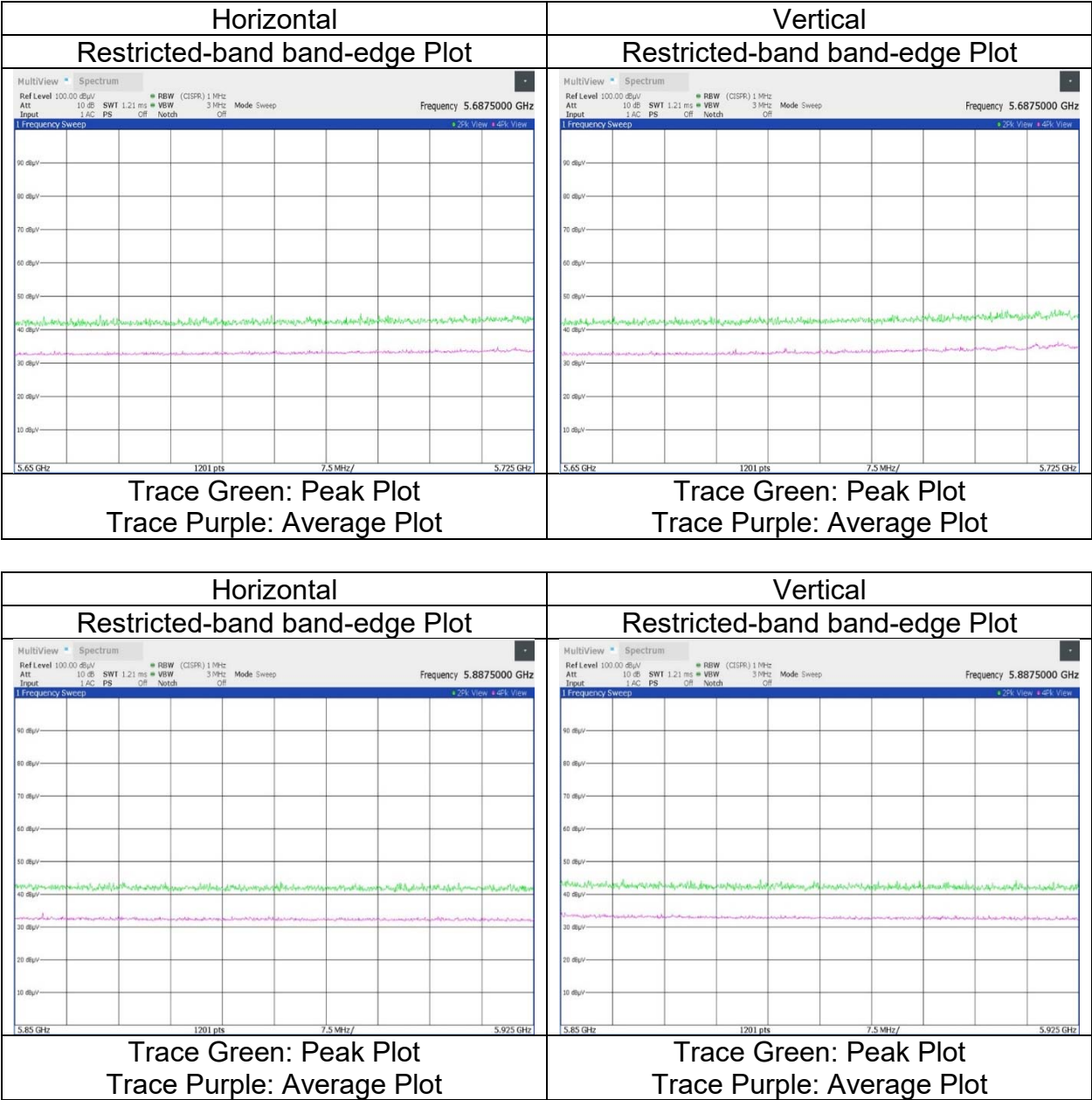
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2
Date	November 1, 2023
Temperature / Humidity	20 deg.C, 50 %RH
Engineer	Miku Ikudome
Mode	Tx 11ac-80 (SDM) 5775 MHz, Ant 0 + Ant 2



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-80 (OFDM)(SDM) 5210 MHz, Ant 0 + Ant 2		

(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	52.63	32.17	-26.97	-	2.37	60.20	73.9	13.7	151	81	-
Hori.	15630.000	PK	47.41	39.55	-31.26	-	-9.54	46.16	73.9	27.7	150	0	Floor noise
Hori.	5150.000	AV	41.35	32.17	-26.97	-	2.37	48.92	53.9	4.9	151	81	VBW:20 kHz
Hori.	15630.000	AV	37.95	39.55	-31.26	-	-9.54	36.70	53.9	17.2	150	0	VBW:20 kHz, Floor noise
Vert.	5150.000	PK	53.03	32.17	-26.97	-	2.37	60.60	73.9	13.3	242	117	-
Vert.	15630.000	PK	47.51	39.55	-31.26	-	-9.54	46.26	73.9	27.6	150	0	Floor noise
Vert.	5150.000	AV	42.47	32.17	-26.97	-	2.37	50.04	53.9	3.8	242	117	VBW:20 kHz
Vert.	15630.000	AV	38.13	39.55	-31.26	-	-9.54	36.88	53.9	17.0	150	0	VBW:20 kHz, Floor noise

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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	10420.000	PK	47.42	36.27	-32.97	-	-9.54	41.18	-54.05	-27.0	27.0	142	239	-
Vert.	10420.000	PK	47.25	36.27	-32.97	-	-9.54	41.01	-54.22	-27.0	27.2	157	151	-

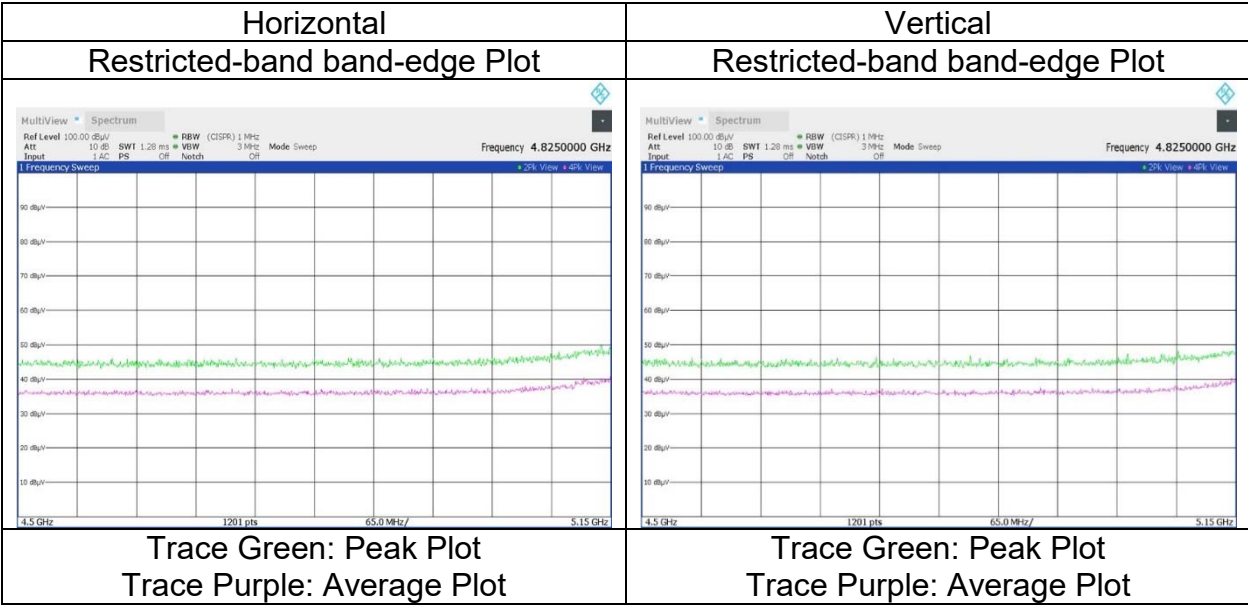
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-80 (OFDM)(SDM) 5290 MHz, Ant 0 + Ant 2		

(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	51.24	32.16	-26.77	-	2.37	59.00	73.9	14.9	143	71	-
Hori.	15870.000	PK	47.17	39.85	-31.36	-	-9.54	46.12	73.9	27.7	150	0	Floor noise
Hori.	5350.000	AV	40.73	32.16	-26.77	-	2.37	48.49	53.9	5.4	143	71	VBW:20 kHz
Hori.	15870.000	AV	37.54	39.85	-31.36	-	-9.54	36.49	53.9	17.4	150	0	VBW:20 kHz, Floor noise
Vert.	5350.000	PK	51.99	32.16	-26.77	-	2.37	59.75	73.9	14.1	181	119	-
Vert.	15870.000	PK	47.21	39.85	-31.36	-	-9.54	46.16	73.9	27.7	150	0	Floor noise
Vert.	5350.000	AV	42.14	32.16	-26.77	-	2.37	49.90	53.9	4.0	181	119	VBW:20 kHz
Vert.	15870.000	AV	37.33	39.85	-31.36	-	-9.54	36.28	53.9	17.6	150	0	VBW:20 kHz, Floor noise

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 (3.94 m / 3.0 m) = 2.37 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.	10580.000	PK	46.92	36.78	-32.80	-	-9.54	41.36	-53.87	-27.0	26.8	143	240	-
Vert.	10580.000	PK	46.81	36.78	-32.80	-	-9.54	41.25	-53.98	-27.0	26.9	186	234	-

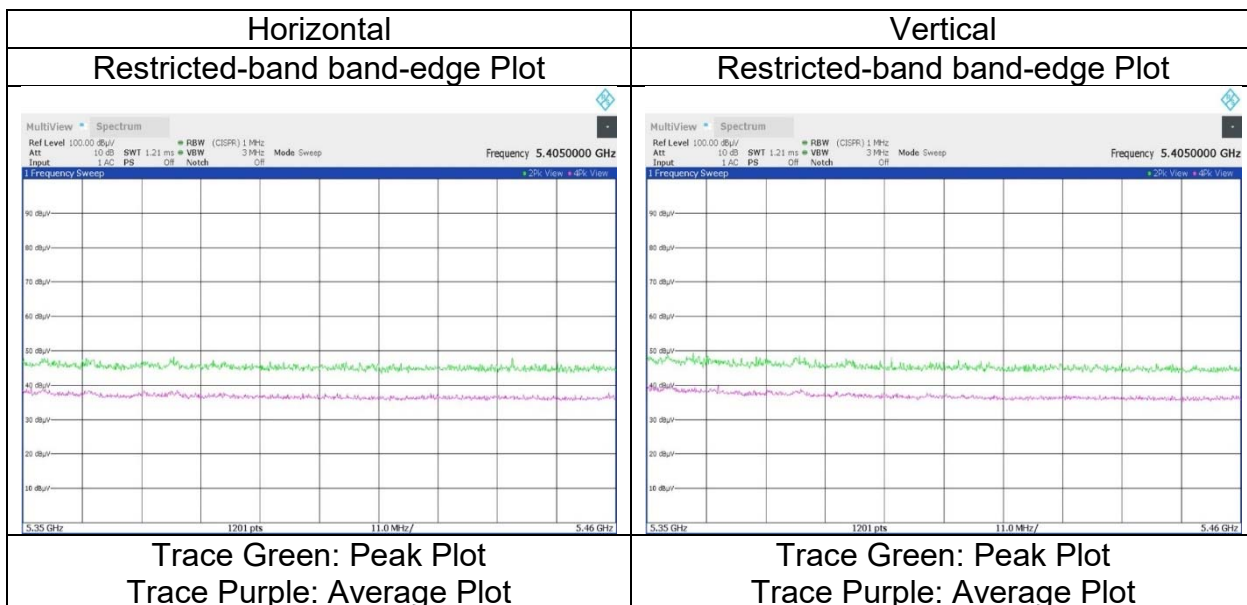
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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 (3.94 m / 3.0 m) = 2.37 dB

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



* 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 WAC2 WAC2 WAC2
Date December 18, 2023 December 27, 2023 December 26, 2023
Temperature / Humidity 22 deg. C / 40 % RH 20 deg. C / 41 % RH 22 deg. C / 30 % RH
Engineer Hiromasa Sato Kouki Yamada Kouki Yamada
(1 GHz to 10 GHz) (10 GHz to 18 GHz) (Above 18 GHz)
Mode Tx 11ax-80 (OFDM)(SDM) 5530 MHz, Ant 0 + Ant 2

(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.	11060.000	PK	48.12	37.40	-32.62	-	-9.54	43.36	73.9	30.5	163	231	-
Hori.	5460.000	AV	40.13	32.46	-26.65	-	2.37	48.31	53.9	5.5	169	74	VBW:20 kHz
Hori.	11060.000	AV	40.63	37.40	-32.62	-	-9.54	35.87	53.9	18.0	163	231	VBW:20 kHz
Vert.	11060.000	PK	47.82	37.40	-32.62	-	-9.54	43.06	73.9	30.8	250	177	-
Vert.	5460.000	AV	40.31	32.46	-26.65	-	2.37	48.49	53.9	5.4	163	86	VBW:20 kHz
Vert.	11060.000	AV	39.93	37.40	-32.62	-	-9.54	35.17	53.9	18.7	250	177	VBW:20 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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	5460.000	PK	50.85	32.46	-26.65	-	2.37	59.03	-36.20	-27.0	9.2	169	74	-
Hori.	5470.000	PK	50.64	32.49	-26.64	-	2.37	58.86	-36.37	-27.0	9.3	169	74	-
Hori.	5725.000	PK	49.42	33.03	-26.55	-	2.37	58.27	-36.96	-27.0	9.9	169	74	-
Hori.	16590.000	PK	47.46	39.60	-30.56	-	-9.54	46.96	-48.27	-27.0	21.2	150	0	Floor noise
Vert.	5460.000	PK	50.07	32.46	-26.65	-	2.37	58.25	-36.98	-27.0	9.9	163	86	-
Vert.	5470.000	PK	50.24	32.49	-26.64	-	2.37	58.46	-36.77	-27.0	9.7	163	86	-
Vert.	5725.000	PK	49.49	33.03	-26.55	-	2.37	58.34	-36.89	-27.0	9.8	163	86	-
Vert.	16590.000	PK	47.35	39.60	-30.56	-	-9.54	46.85	-48.38	-27.0	21.3	150	0	Floor noise

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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2
Date	December 18, 2023
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Hiromasa Sato
Mode	Tx 11ax-80 (OFDM)(SDM) 5530 MHz, Ant 0 + Ant 2



* 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	WAC2	WAC2	WAC2
Date	December 18, 2023	December 27, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 40 % RH	20 deg. C / 41 % RH	22 deg. C / 30 % RH
Engineer	Hiromasa Sato	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-80 (OFDM)(SDM) 5775 MHz, Ant 0 + Ant 2		

(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.	11550.000	PK	48.95	37.94	-32.30	-	-9.54	45.05	73.9	28.8	211	343	-
Hori.	11550.000	AV	42.48	37.94	-32.30	-	-9.54	38.58	53.9	15.3	211	343	VBW:20 kHz
Hori.	11550.000	PK	49.76	37.94	-32.30	-	-9.54	45.86	73.9	28.0	142	189	-
Vert.	11550.000	AV	43.42	37.94	-32.30	-	-9.54	39.52	53.9	14.3	142	189	VBW:20 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 : 20log (3.94 m / 3.0 m) = 2.37 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.	5650.000	PK	50.20	32.96	-26.58	-	2.37	58.95	-36.28	-27.0	9.2	155	101	-
Hori.	5700.000	PK	50.18	33.00	-26.56	-	2.37	58.99	-36.24	10.0	46.2	155	101	-
Hori.	5720.000	PK	50.13	33.02	-26.55	-	2.37	58.97	-36.26	15.6	51.8	155	101	-
Hori.	5725.000	PK	50.23	33.03	-26.55	-	2.37	59.08	-36.15	27.0	63.1	155	101	-
Hori.	5850.000	PK	50.04	33.13	-26.51	-	2.37	59.03	-36.20	27.0	63.2	155	101	-
Hori.	5855.000	PK	50.17	33.14	-26.51	-	2.37	59.17	-36.06	15.6	51.6	155	101	-
Hori.	5875.000	PK	50.03	33.17	-26.51	-	2.37	59.06	-36.17	10.0	46.1	155	101	-
Hori.	5925.000	PK	50.26	33.27	-26.50	-	2.37	59.40	-35.83	-27.0	8.8	155	101	-
Hori.	17325.000	PK	47.20	40.28	-30.08	-	-9.54	47.86	-47.37	-27.0	20.3	150	0	Floor noise
Vert.	5650.000	PK	49.75	32.96	-26.58	-	2.37	58.50	-36.73	-27.0	9.7	140	70	-
Vert.	5700.000	PK	50.37	33.00	-26.56	-	2.37	59.18	-36.05	10.0	46.0	140	70	-
Vert.	5720.000	PK	50.45	33.02	-26.55	-	2.37	59.29	-35.94	15.6	51.5	140	70	-
Vert.	5725.000	PK	51.86	33.03	-26.55	-	2.37	60.71	-34.52	27.0	61.5	140	70	-
Vert.	5850.000	PK	50.44	33.13	-26.51	-	2.37	59.43	-35.80	27.0	62.8	140	70	-
Vert.	5855.000	PK	50.90	33.14	-26.51	-	2.37	59.90	-35.33	15.6	50.9	140	70	-
Vert.	5875.000	PK	50.31	33.17	-26.51	-	2.37	59.34	-35.89	10.0	45.8	140	70	-
Vert.	5925.000	PK	49.81	33.27	-26.50	-	2.37	58.95	-36.28	-27.0	9.2	140	70	-
Vert.	17325.000	PK	47.13	40.28	-30.08	-	-9.54	47.79	-47.44	-27.0	20.4	150	0	Floor noise

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)

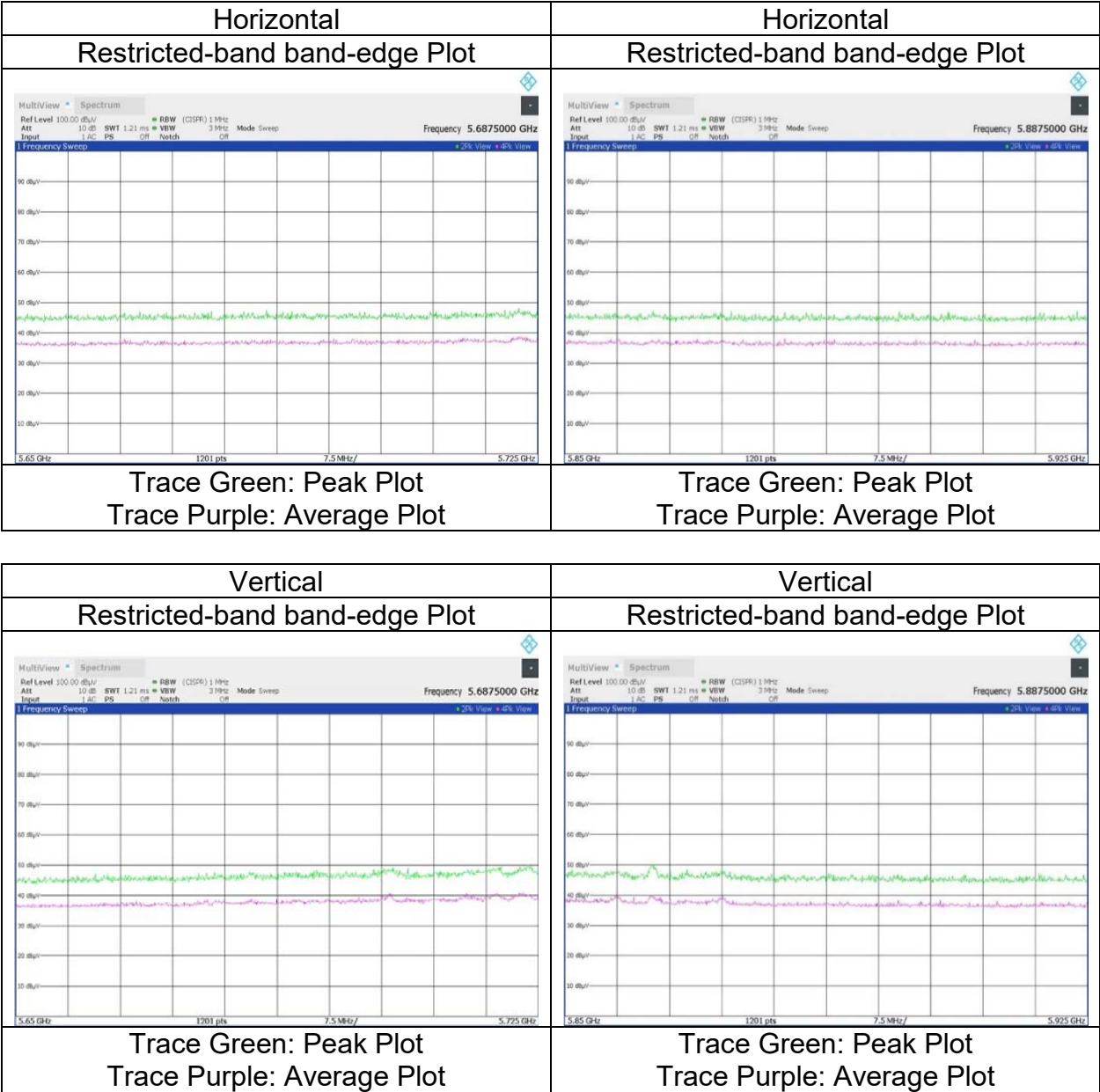
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 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	WAC2
Date	December 18, 2023
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Hiromasa Sato
Mode	Tx 11ax-80 (OFDM)(SDM) 5775 MHz, Ant 0 + Ant 2



* 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

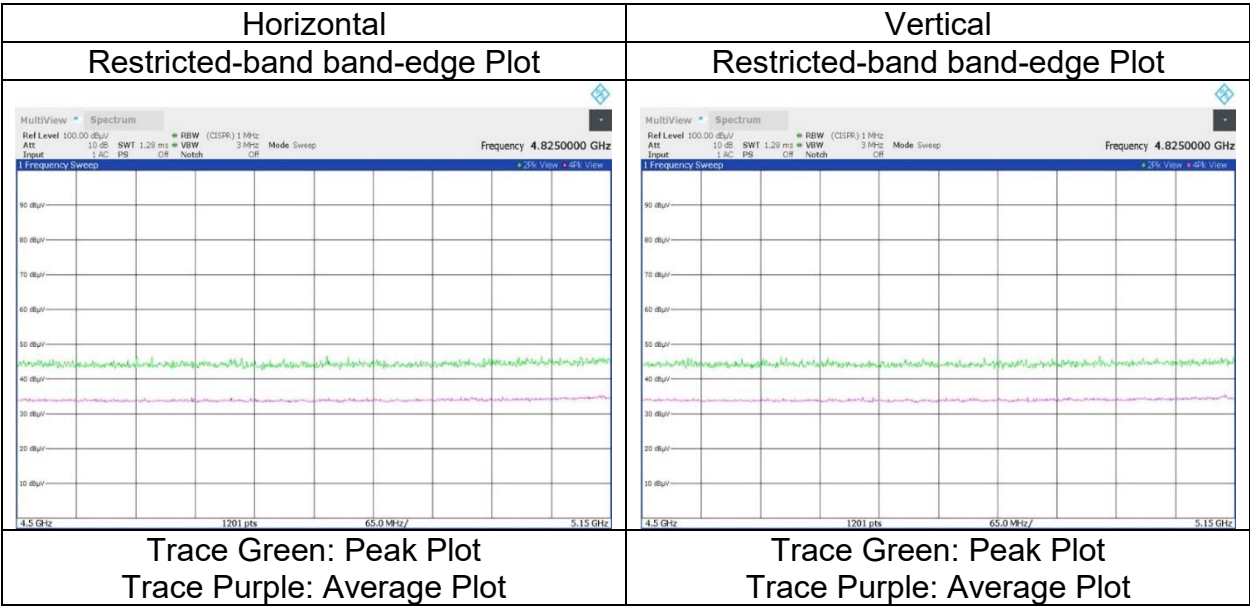
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 9, 2024
24 deg. C / 28 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 26-tone RU 5180 MHz, Ant 0 + Ant 2

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	47.62	32.17	-26.97	-	2.37	55.19	73.9	18.7	173	76	-
Hori.	5150.000	AV	35.36	32.17	-26.97	-	2.37	42.93	53.9	10.9	173	76	VBW:5 kHz
Vert.	5150.000	PK	47.73	32.17	-26.97	-	2.37	55.30	73.9	18.6	241	112	-
Vert.	5150.000	AV	35.48	32.17	-26.97	-	2.37	43.05	53.9	10.8	241	112	VBW:5 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2
Date January 9, 2024
Temperature / Humidity 24 deg. C / 28 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 26-tone RU 5320 MHz, Ant 0 + Ant 2

RU Index 8
(above 1 GHz Inside of the restricted band)

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

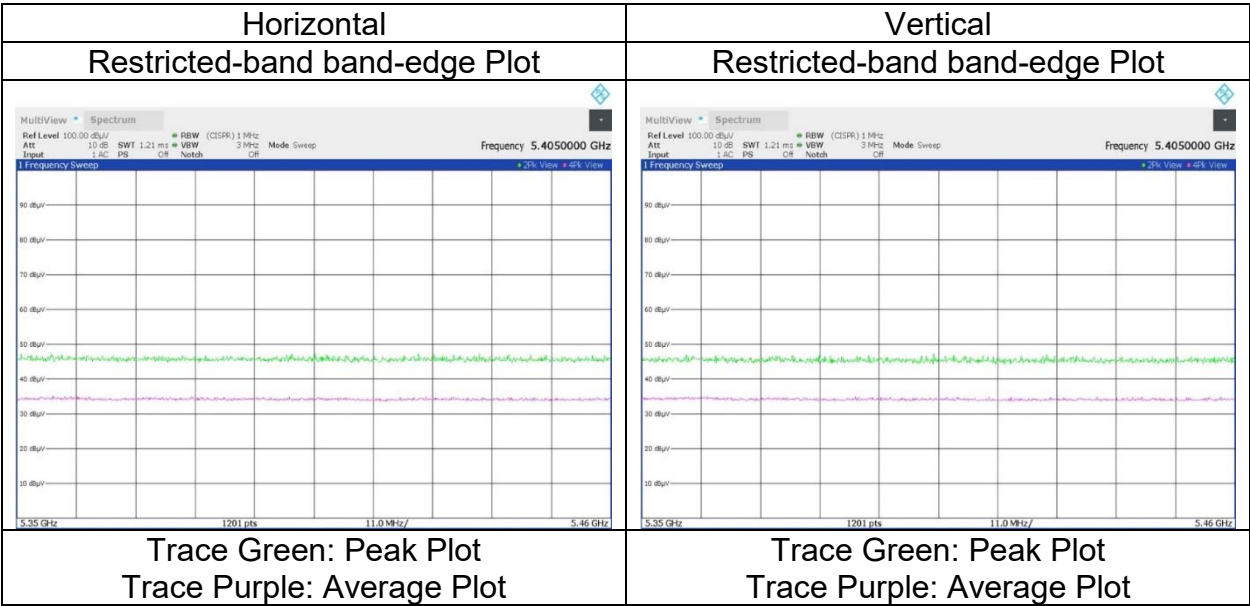
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.24	32.16	-26.77	-	2.37	55.00	73.9	18.9	163	81	-
Hori.	5350.000	AV	35.18	32.16	-26.77	-	2.37	42.94	53.9	10.9	163	81	VBW:5 kHz
Vert.	5350.000	PK	47.32	32.16	-26.77	-	2.37	55.08	73.9	18.8	240	121	-
Vert.	5350.000	AV	35.29	32.16	-26.77	-	2.37	43.05	53.9	10.8	240	121	VBW:5 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



* 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 WAC2
Date January 9, 2024
Temperature / Humidity 24 deg. C / 28 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 26-tone RU 5500 MHz, Ant 0 + Ant 2

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	AV	35.57	32.46	-26.65	-	2.37	43.75	53.9	10.1	171	72	VBW:5 kHz
Vert.	5460.000	AV	35.46	32.46	-26.65	-	2.37	43.64	53.9	10.2	224	116	VBW:5 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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)

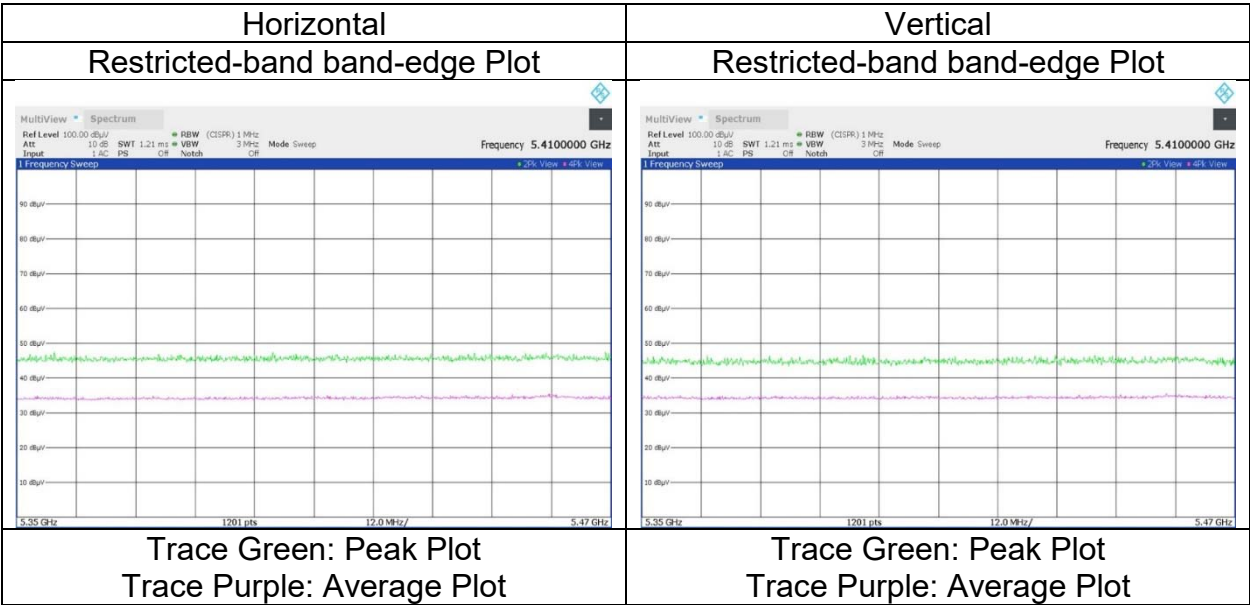
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.51	32.46	-26.65	-	2.37	55.69	-39.54	-27.0	12.5	171	72	-
Hori.	5470.000	PK	47.54	32.49	-26.64	-	2.37	55.76	-39.47	-27.0	12.4	171	72	-
Vert.	5460.000	PK	47.46	32.46	-26.65	-	2.37	55.64	-39.59	-27.0	12.5	224	116	-
Vert.	5470.000	PK	47.49	32.49	-26.64	-	2.37	55.71	-39.52	-27.0	12.5	224	116	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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 WAC2
Date January 9, 2024
Temperature / Humidity 24 deg. C / 28 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 26-tone RU 5700 MHz, Ant 0 + Ant 2

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	47.53	33.03	-26.55	-	2.37	56.38	-38.85	-27.0	11.8	153	102	-
Vert.	5725.000	PK	47.58	33.03	-26.55	-	2.37	56.43	-38.80	-27.0	11.8	144	122	-

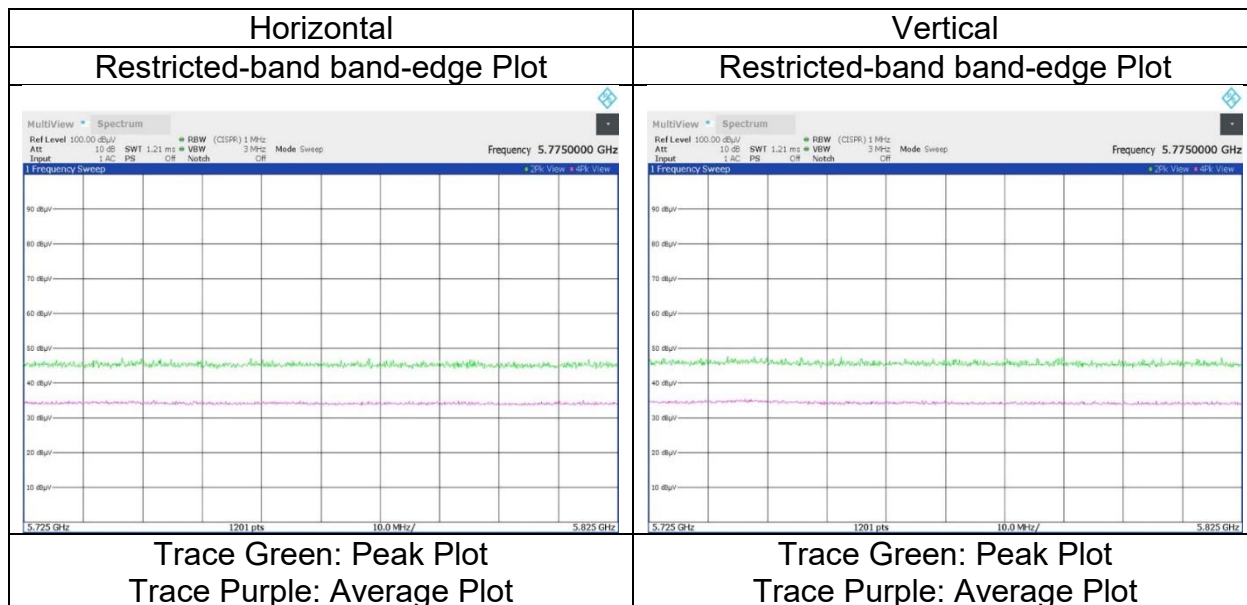
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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



* 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

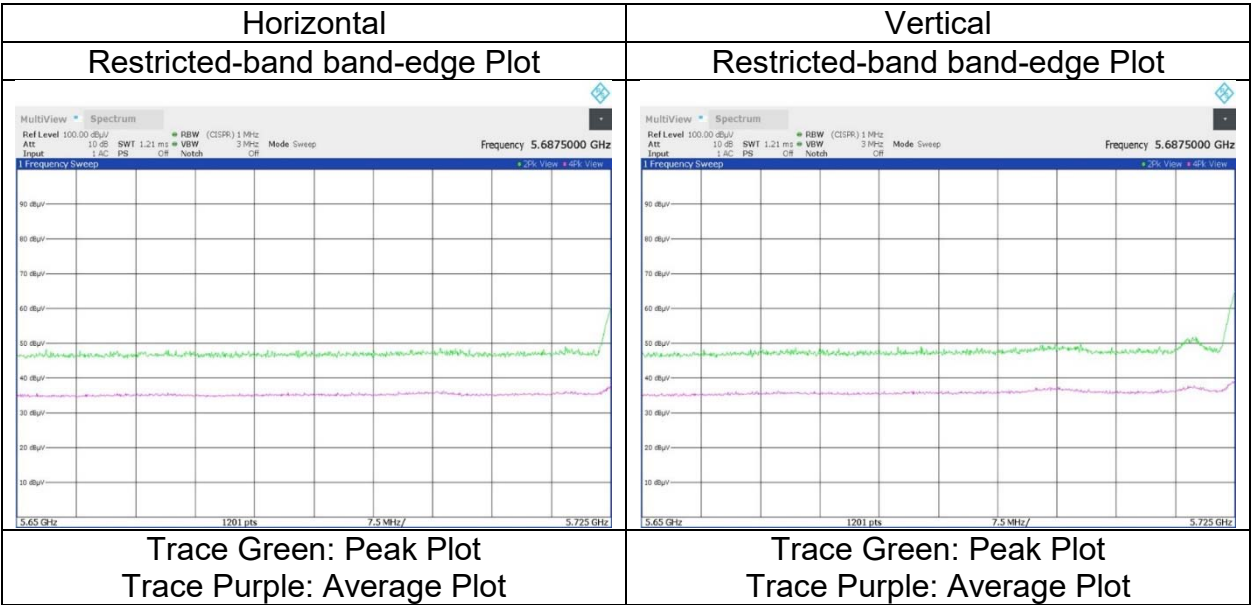
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 10, 2024
20 deg. C / 33 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 26-tone RU 5745 MHz, Ant 0 + Ant 2

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	47.34	32.96	-26.58	-	2.37	56.09	-39.14	-27.0	12.1	222	87	-
Hori.	5700.000	PK	47.74	33.00	-26.56	-	2.37	56.55	-38.68	10.0	48.6	222	87	-
Hori.	5719.537	PK	48.56	33.02	-26.55	-	2.37	57.40	-37.83	15.5	53.3	222	87	-
Hori.	5720.000	PK	48.44	33.02	-26.55	-	2.37	57.28	-37.95	15.6	53.5	222	87	-
Hori.	5725.000	PK	59.62	33.03	-26.55	-	2.37	68.47	-26.76	27.0	53.7	222	87	-
Vert.	5650.000	PK	47.97	32.96	-26.58	-	2.37	56.72	-38.51	-27.0	11.5	162	114	-
Vert.	5700.000	PK	48.52	33.00	-26.56	-	2.37	57.33	-37.90	10.0	47.9	162	114	-
Vert.	5719.537	PK	52.22	33.02	-26.55	-	2.37	61.06	-34.17	15.5	49.6	162	114	-
Vert.	5720.000	PK	51.85	33.02	-26.55	-	2.37	60.69	-34.54	15.6	50.1	162	114	-
Vert.	5725.000	PK	64.65	33.03	-26.55	-	2.37	73.50	-21.73	27.0	48.7	162	114	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2 WAC2
Date May 4, 2024 April 17, 2024
Temperature / Humidity 23 deg. C / 49 % RH 24 deg. C / 50 % RH
Engineer Miku Ikudome Makoto Hosaka
(1 GHz to 10 GHz) (Above 10 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 26-tone RU 5785 MHz, Ant 0 + Ant 2

RU Index 4
(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.	11570.000	PK	60.08	37.95	-32.20	-	-9.54	56.29	73.9	17.6	150	82	-
Hori.	11570.000	AV	48.05	37.95	-32.20	-	-9.54	44.26	53.9	9.6	150	82	VBW: 5 kHz
Vert.	11570.000	PK	59.68	37.95	-32.20	-	-9.54	55.89	73.9	18.0	143	189	-
Vert.	11570.000	AV	48.02	37.95	-32.20	-	-9.54	44.23	53.9	9.6	143	189	VBW: 5 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 : 20log (3.94 m / 3.0 m) = 2.37 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.	17355.000	PK	47.67	40.28	-29.90	-	-9.54	48.51	-46.72	-27.0	19.7	150	0	Floor noise
Vert.	17355.000	PK	47.77	40.28	-29.90	-	-9.54	48.61	-46.62	-27.0	19.6	150	0	Floor noise

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 (3.94 m / 3.0 m) = 2.37 dB

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

Radiated Spurious Emission

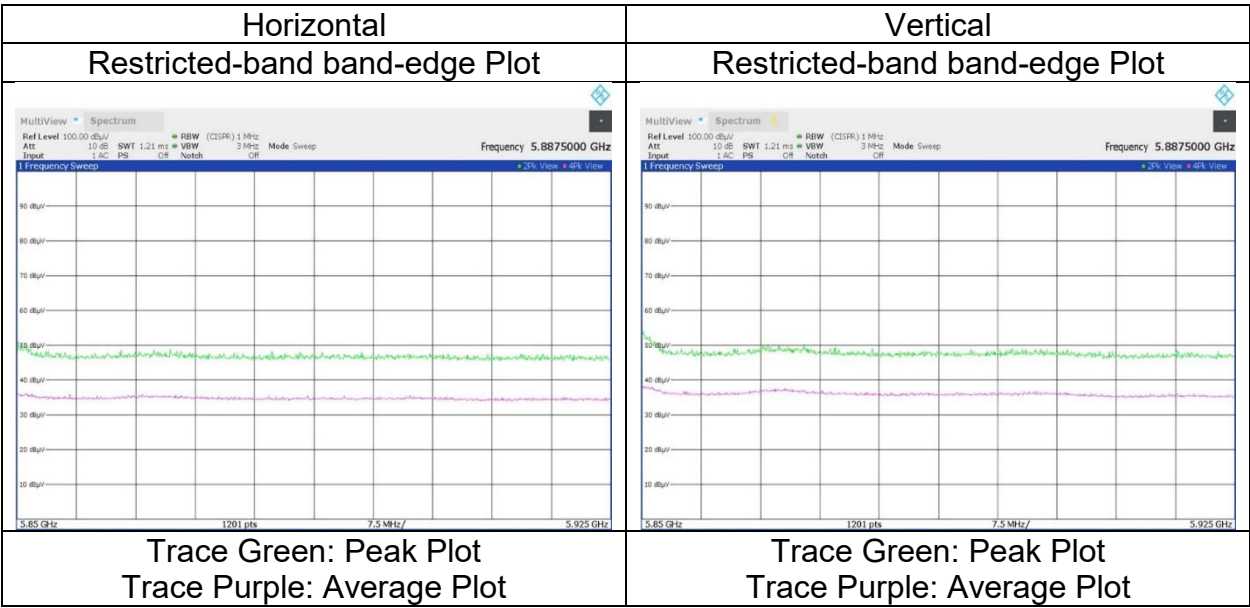
Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 26-tone RU 5825 MHz, Ant 0 + Ant 2

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	49.16	33.13	-26.51	-	2.37	58.15	-37.08	27.0	64.0	187	121	-
Hori.	5855.000	PK	48.42	33.14	-26.51	-	2.37	57.42	-37.81	15.6	53.4	187	121	-
Hori.	5867.564	PK	48.62	33.16	-26.51	-	2.37	57.64	-37.59	12.1	49.6	187	121	-
Hori.	5875.000	PK	47.44	33.17	-26.51	-	2.37	56.47	-38.76	10.0	48.7	187	121	-
Hori.	5925.000	PK	47.17	33.27	-26.50	-	2.37	56.31	-38.92	-27.0	11.9	187	121	-
Vert.	5850.000	PK	52.74	33.13	-26.51	-	2.37	61.73	-33.50	27.0	60.5	156	119	-
Vert.	5855.000	PK	49.07	33.14	-26.51	-	2.37	58.07	-37.16	15.6	52.7	156	119	-
Vert.	5867.564	PK	50.26	33.16	-26.51	-	2.37	59.28	-35.95	12.1	48.0	156	119	-
Vert.	5875.000	PK	48.31	33.17	-26.51	-	2.37	57.34	-37.89	10.0	47.8	156	119	-
Vert.	5925.000	PK	47.86	33.27	-26.50	-	2.37	57.00	-38.23	-27.0	11.2	156	119	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 10, 2024
20 deg. C / 33 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 52-tone RU 5180 MHz, Ant 0 + Ant 2

RU Index 37
(above 1 GHz Inside of the restricted band)

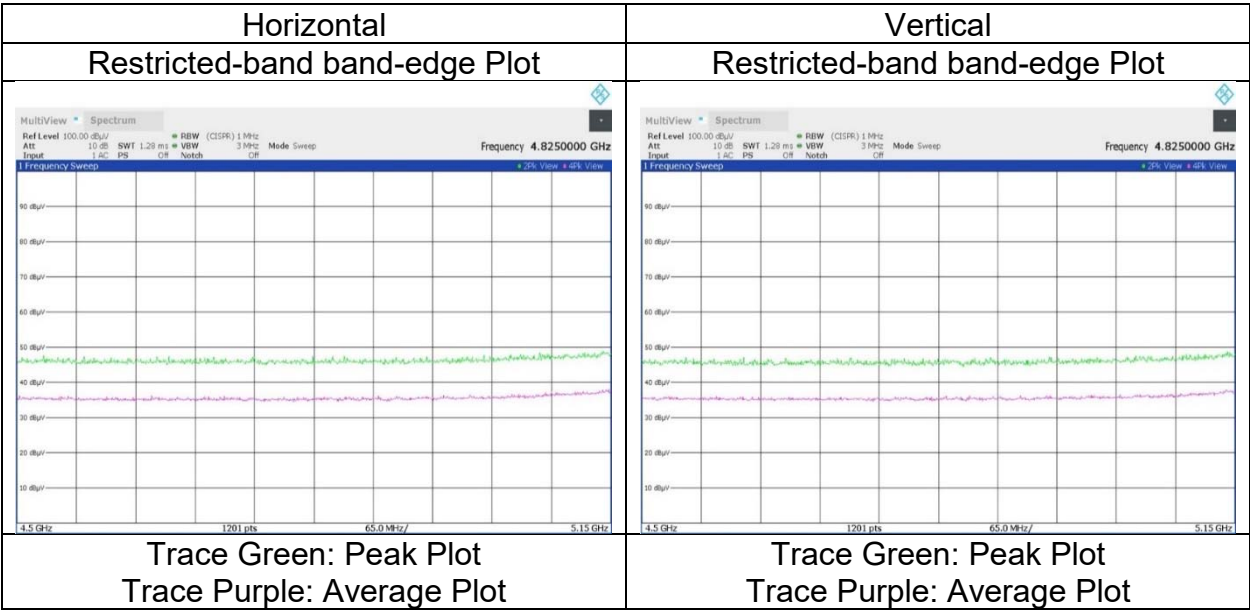
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.40	32.17	-26.97	-	2.37	55.97	73.9	17.9	186	71	-
Hori.	5150.000	AV	38.14	32.17	-26.97	-	2.37	45.71	53.9	8.1	186	71	VBW:10 kHz
Vert.	5150.000	PK	48.49	32.17	-26.97	-	2.37	56.06	73.9	17.8	211	111	-
Vert.	5150.000	AV	38.32	32.17	-26.97	-	2.37	45.89	53.9	8.0	211	111	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 dB

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



* 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 WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 52-tone RU 5320 MHz, Ant 0 + Ant 2

RU Index 40
(above 1 GHz Inside of the restricted band)

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

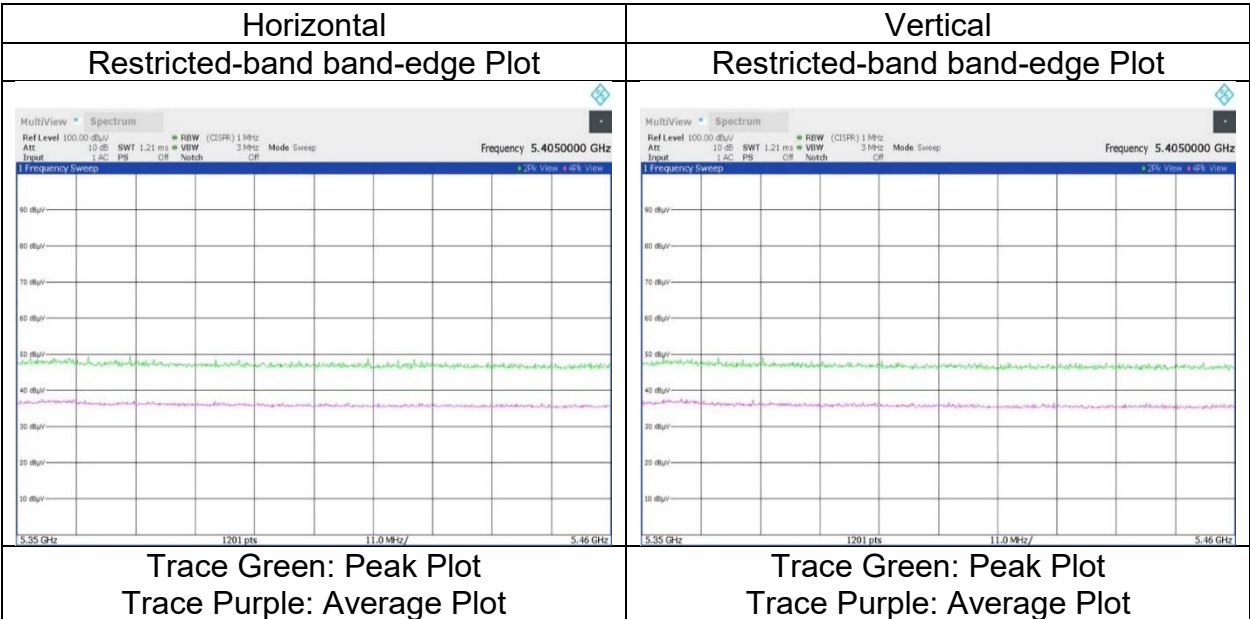
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.65	32.16	-26.77	-	2.37	56.41	73.9	17.4	264	125	-
Hori.	5350.000	AV	37.65	32.16	-26.77	-	2.37	45.41	53.9	8.4	264	125	VBW:10 kHz
Vert.	5350.000	PK	48.84	32.16	-26.77	-	2.37	56.60	73.9	17.3	186	126	-
Vert.	5350.000	AV	37.85	32.16	-26.77	-	2.37	45.61	53.9	8.2	186	126	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 dB

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



* 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 WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 52-tone RU 5500 MHz, Ant 0 + Ant 2

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	AV	36.67	32.46	-26.65	-	2.37	44.85	53.9	9.0	152	108	VBW:10 kHz
Vert.	5460.000	AV	36.96	32.46	-26.65	-	2.37	45.14	53.9	8.7	196	111	VBW:10 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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)

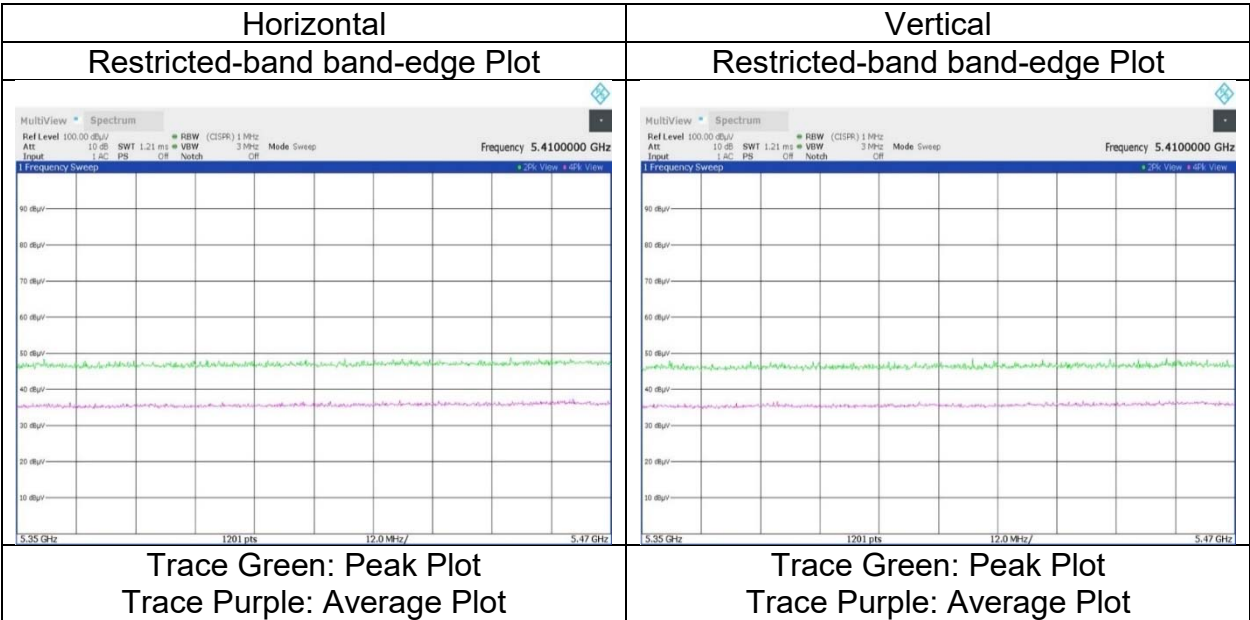
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.18	32.46	-26.65	-	2.37	56.36	-38.87	-27.0	11.8	152	108	-
Hori.	5470.000	PK	48.26	32.49	-26.64	-	2.37	56.48	-38.75	-27.0	11.7	152	108	-
Vert.	5460.000	PK	48.38	32.46	-26.65	-	2.37	56.56	-38.67	-27.0	11.6	196	111	-
Vert.	5470.000	PK	48.42	32.49	-26.64	-	2.37	56.64	-38.59	-27.0	11.5	196	111	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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

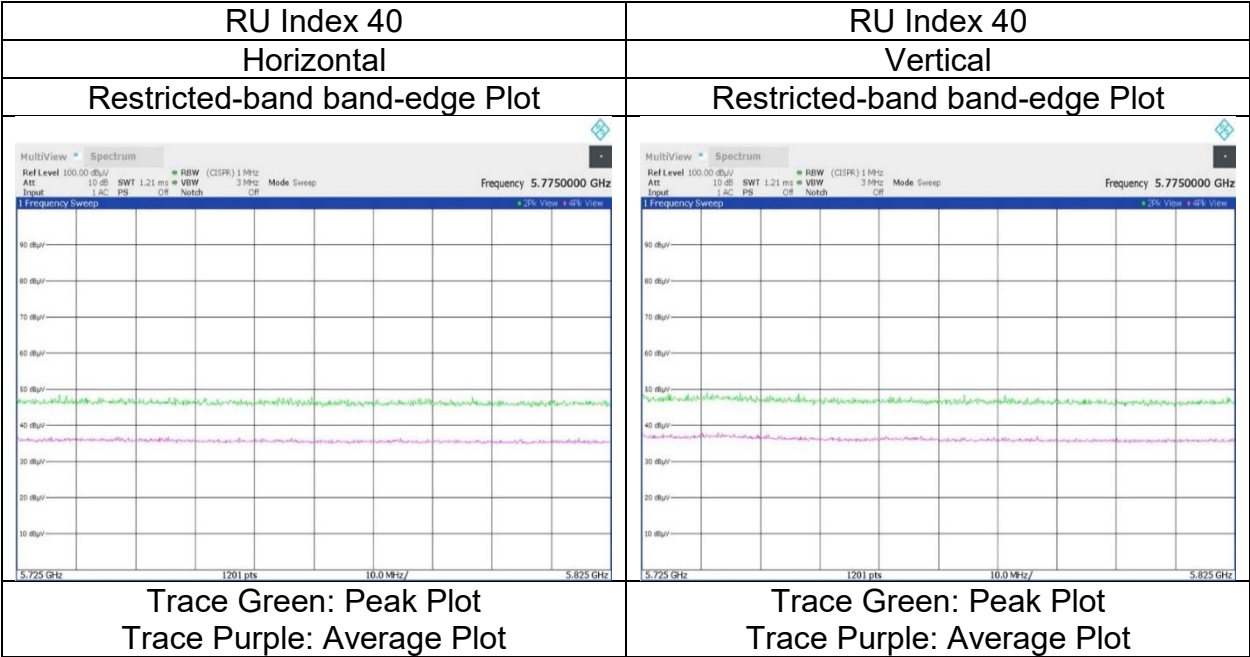
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 10, 2024
20 deg. C / 33 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 52-tone RU 5700 MHz, Ant 0 + Ant 2

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	48.03	33.03	-26.55	-	2.37	56.88	-38.35	-27.0	11.3	237	122	-
Vert.	5725.000	PK	48.97	33.03	-26.55	-	2.37	57.82	-37.41	-27.0	10.4	162	120	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

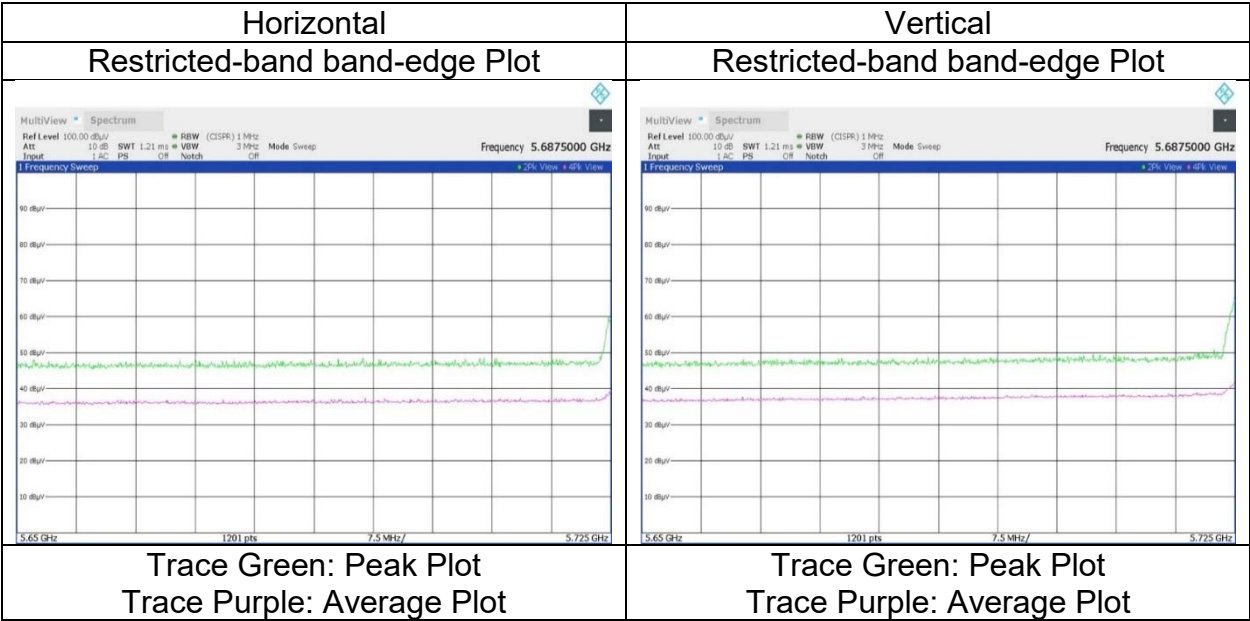
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 52-tone RU 5745 MHz, Ant 0 + Ant 2

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	47.48	32.96	-26.58	-	2.37	56.23	-39.00	-27.0	12.0	201	94	-
Hori.	5700.000	PK	48.22	33.00	-26.56	-	2.37	57.03	-38.20	10.0	48.2	201	94	-
Hori.	5720.000	PK	48.46	33.02	-26.55	-	2.37	57.30	-37.93	15.6	53.5	201	94	-
Hori.	5725.000	PK	58.16	33.03	-26.55	-	2.37	67.01	-28.22	27.0	55.2	201	94	-
Vert.	5650.000	PK	47.60	32.96	-26.58	-	2.37	56.35	-38.88	-27.0	11.8	168	68	-
Vert.	5700.000	PK	48.38	33.00	-26.56	-	2.37	57.19	-38.04	10.0	48.0	168	68	-
Vert.	5720.000	PK	48.86	33.02	-26.55	-	2.37	57.70	-37.53	15.6	53.1	168	68	-
Vert.	5725.000	PK	62.98	33.03	-26.55	-	2.37	71.83	-23.40	27.0	50.4	168	68	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

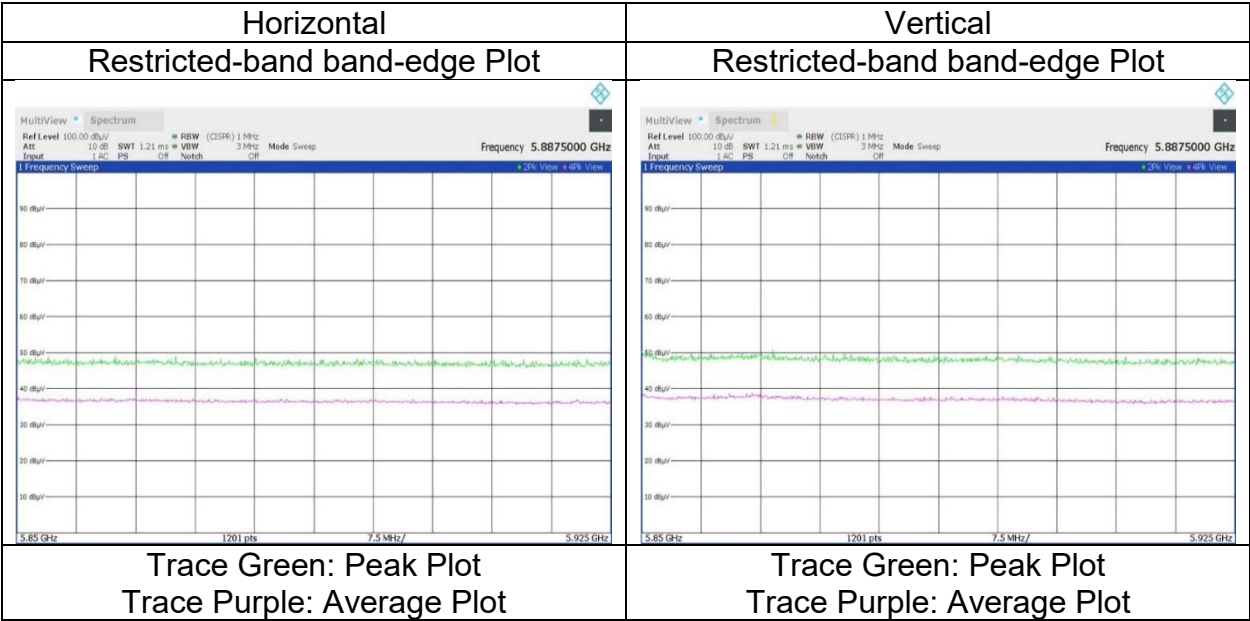
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 52-tone RU 5825 MHz, Ant 0 + Ant 2

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	48.47	33.13	-26.51	-	2.37	57.46	-37.77	27.0	64.7	218	88	-
Hori.	5855.000	PK	47.92	33.14	-26.51	-	2.37	56.92	-38.31	15.6	53.9	218	88	-
Hori.	5875.000	PK	47.87	33.17	-26.51	-	2.37	56.90	-38.33	10.0	48.3	218	88	-
Hori.	5925.000	PK	47.37	33.27	-26.50	-	2.37	56.51	-38.72	-27.0	11.7	218	88	-
Vert.	5850.000	PK	49.92	33.13	-26.51	-	2.37	58.91	-36.32	27.0	63.3	157	124	-
Vert.	5855.000	PK	48.71	33.14	-26.51	-	2.37	57.71	-37.52	15.6	53.1	157	124	-
Vert.	5875.000	PK	48.39	33.17	-26.51	-	2.37	57.42	-37.81	10.0	47.8	157	124	-
Vert.	5925.000	PK	47.46	33.27	-26.50	-	2.37	56.60	-38.63	-27.0	11.6	157	124	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

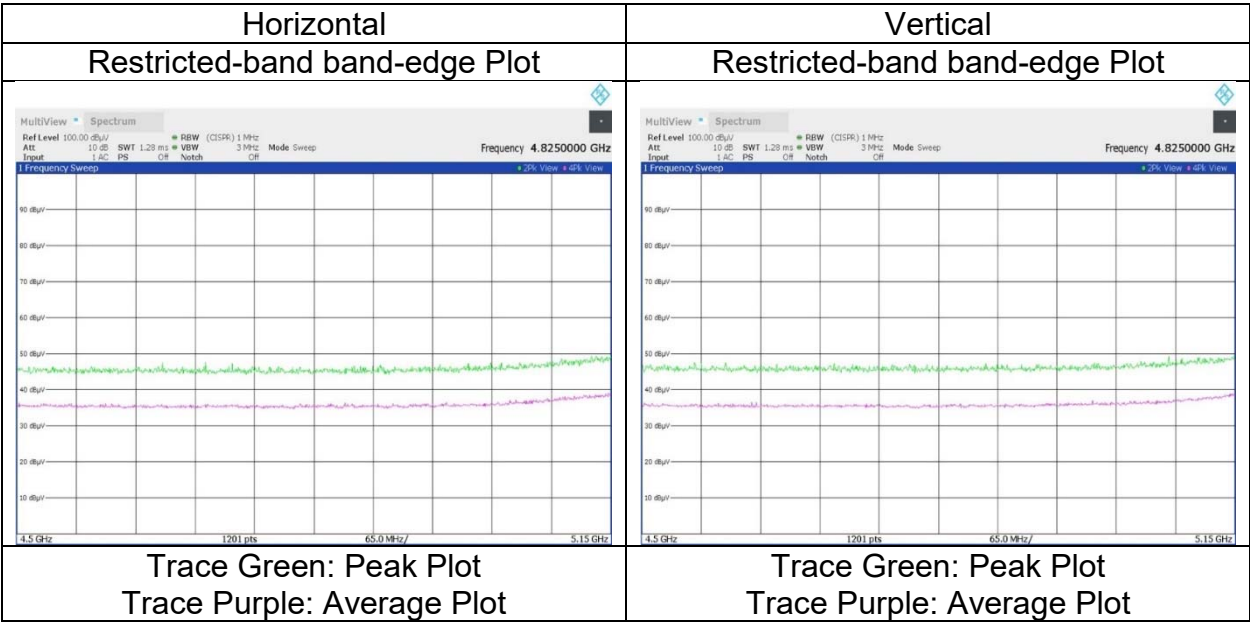
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 106-tone RU 5180 MHz, Ant 0 + Ant 2

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	50.67	32.17	-26.97	-	2.37	58.24	73.9	15.6	167	77	-
Hori.	5150.000	AV	39.42	32.17	-26.97	-	2.37	46.99	53.9	6.9	167	77	VBW:10 kHz
Vert.	5150.000	PK	50.52	32.17	-26.97	-	2.37	58.09	73.9	15.8	246	105	-
Vert.	5150.000	AV	39.27	32.17	-26.97	-	2.37	46.84	53.9	7.0	246	105	VBW:10 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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

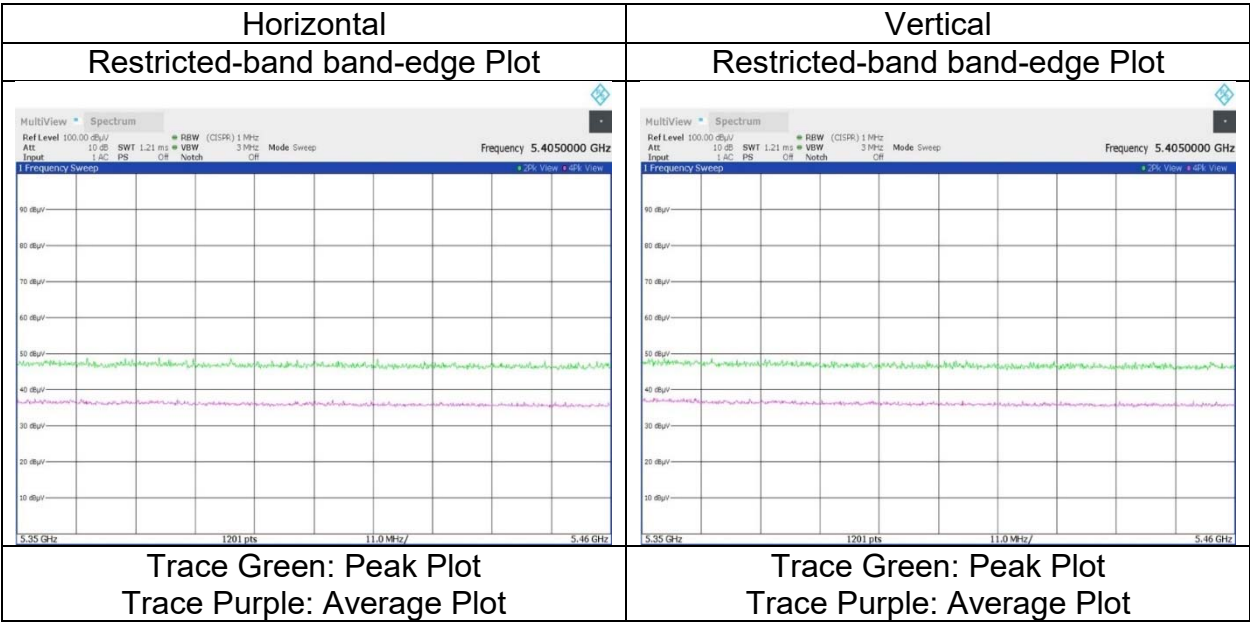
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 10, 2024
20 deg. C / 33 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 106-tone RU 5320 MHz, Ant 0 + Ant 2

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	48.64	32.16	-26.77	-	2.37	56.40	73.9	17.5	171	74	-
Hori.	5350.000	AV	37.31	32.16	-26.77	-	2.37	45.07	53.9	8.8	171	74	VBW:10 kHz
Vert.	5350.000	PK	48.86	32.16	-26.77	-	2.37	56.62	73.9	17.2	234	112	-
Vert.	5350.000	AV	37.68	32.16	-26.77	-	2.37	45.44	53.9	8.4	234	112	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 106-tone RU 5500 MHz, Ant 0 + Ant 2

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	AV	37.44	32.46	-26.65	-	2.37	45.62	53.9	8.2	263	123	VBW:10 kHz
Vert.	5460.000	AV	37.53	32.46	-26.65	-	2.37	45.71	53.9	8.1	196	120	VBW:10 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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)

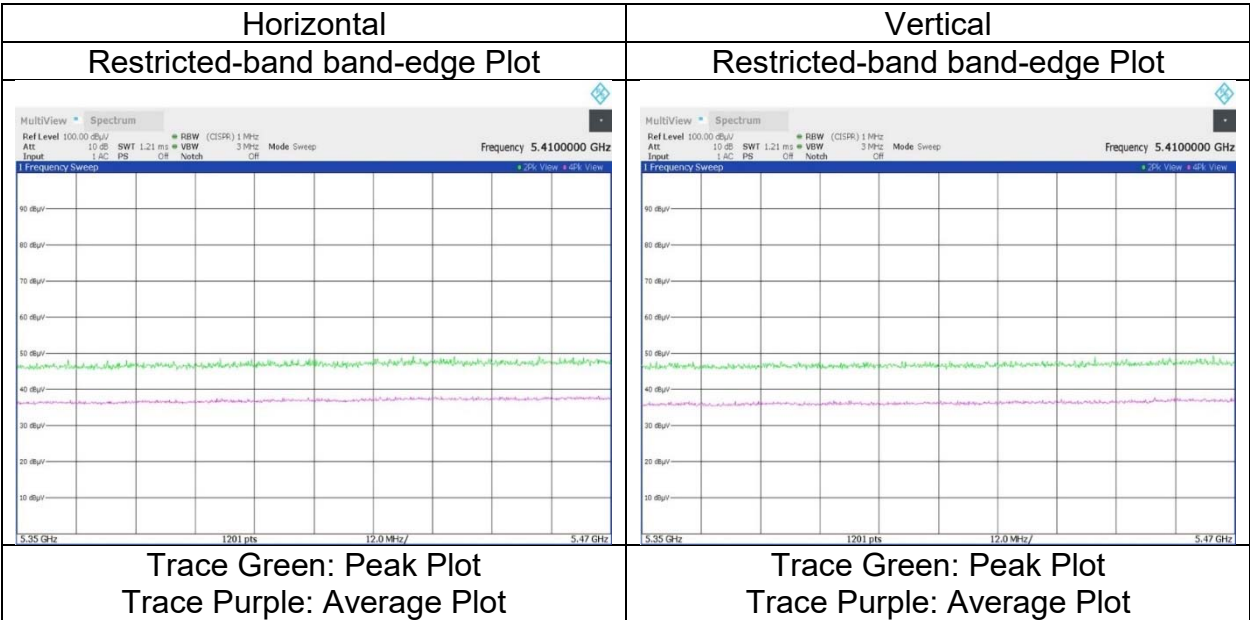
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.32	32.46	-26.65	-	2.37	56.50	-38.73	-27.0	11.7	263	123	-
Hori.	5470.000	PK	48.46	32.49	-26.64	-	2.37	56.68	-38.55	-27.0	11.5	263	123	-
Vert.	5460.000	PK	48.38	32.46	-26.65	-	2.37	56.56	-38.67	-27.0	11.6	196	120	-
Vert.	5470.000	PK	48.58	32.49	-26.64	-	2.37	56.80	-38.43	-27.0	11.4	196	120	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

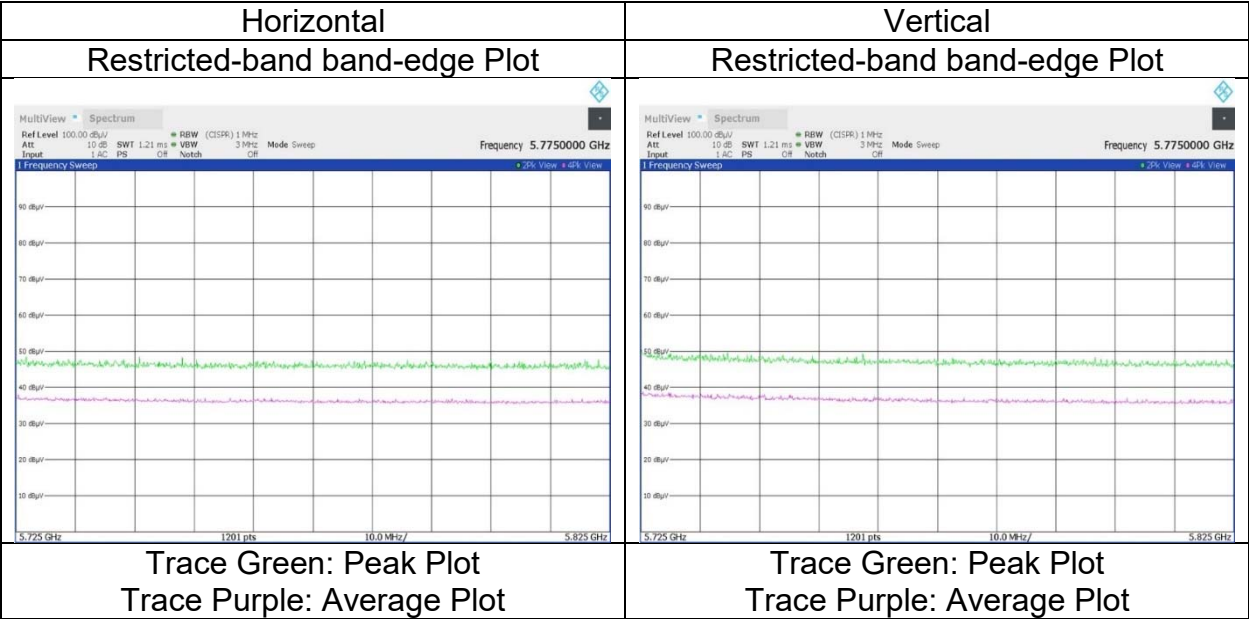
Mode

Shonan EMC Lab.
WAC2
January 10, 2024
20 deg. C / 33 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 106-tone RU 5700 MHz, Ant 0 + Ant 2

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	48.26	33.03	-26.55	-	2.37	57.11	-38.12	-27.0	11.1	250	126	-
Vert.	5725.000	PK	50.31	33.03	-26.55	-	2.37	59.16	-36.07	-27.0	9.0	151	114	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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

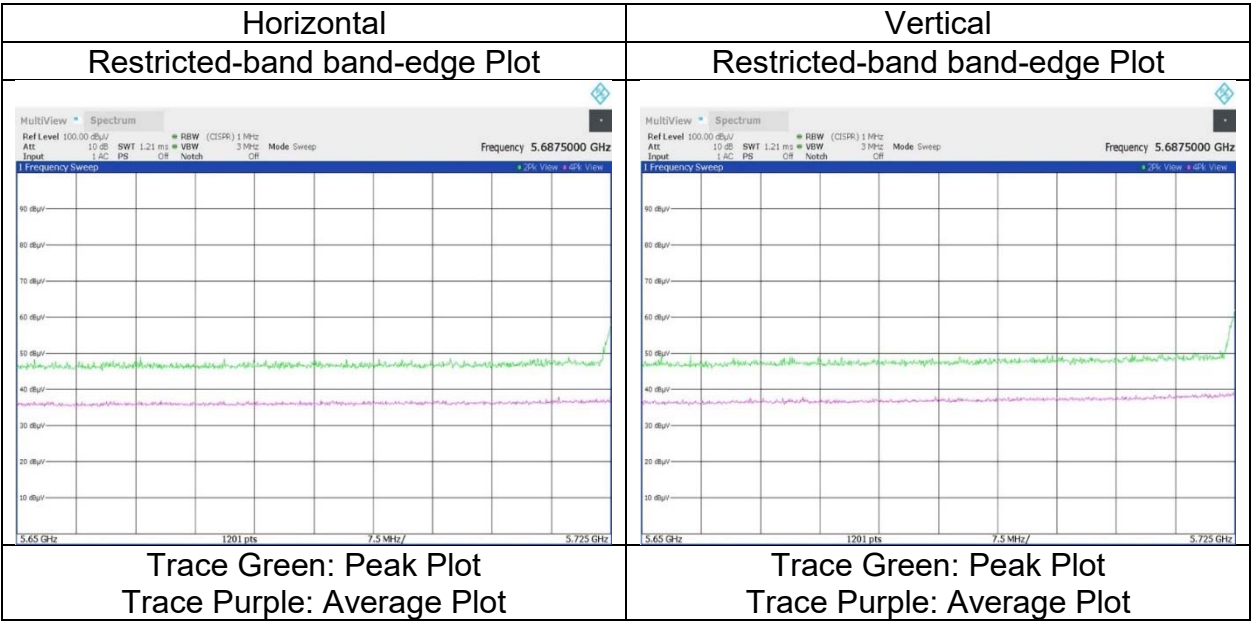
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 10, 2024
20 deg. C / 33 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 106-tone RU 5745 MHz, Ant 0 + Ant 2

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	46.94	32.96	-26.58	-	2.37	55.69	-39.54	-27.0	12.5	215	124	-
Hori.	5700.000	PK	47.66	33.00	-26.56	-	2.37	56.47	-38.76	10.0	48.7	215	124	-
Hori.	5720.000	PK	48.29	33.02	-26.55	-	2.37	57.13	-38.10	15.6	53.7	215	124	-
Hori.	5725.000	PK	57.15	33.03	-26.55	-	2.37	66.00	-29.23	27.0	56.2	215	124	-
Vert.	5650.000	PK	47.74	32.96	-26.58	-	2.37	56.49	-38.74	-27.0	11.7	162	118	-
Vert.	5700.000	PK	48.55	33.00	-26.56	-	2.37	57.36	-37.87	10.0	47.8	162	118	-
Vert.	5720.000	PK	49.73	33.02	-26.55	-	2.37	58.57	-36.66	15.6	52.2	162	118	-
Vert.	5725.000	PK	61.35	33.03	-26.55	-	2.37	70.20	-25.03	27.0	52.0	162	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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

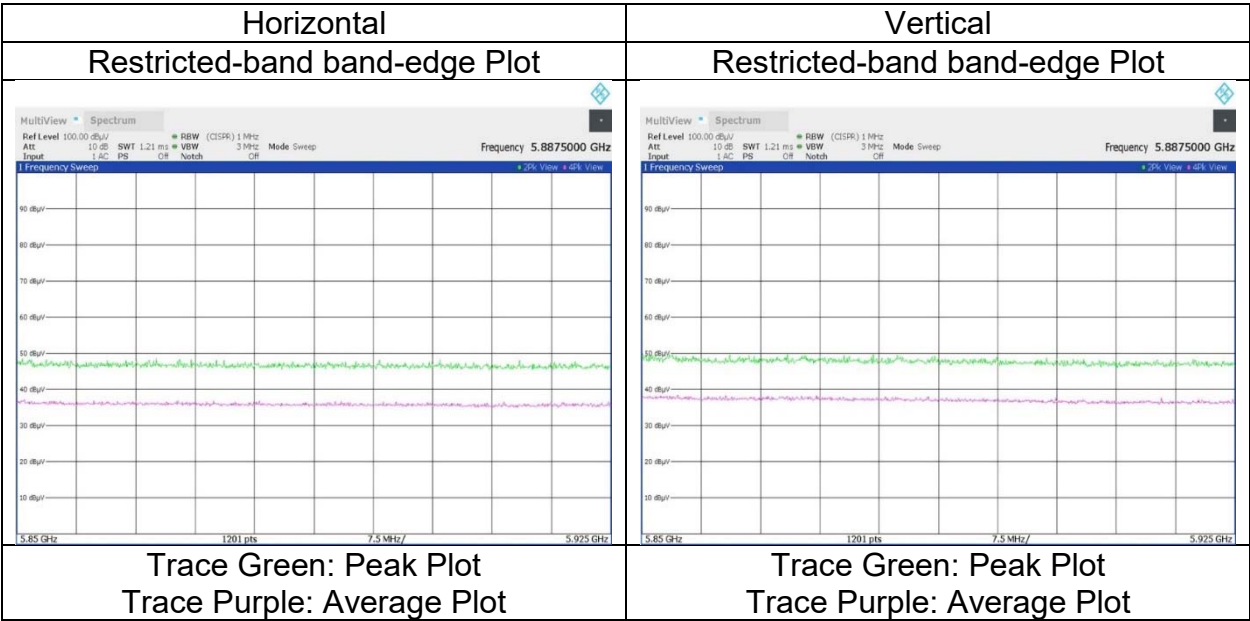
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 10, 2024
Temperature / Humidity 20 deg. C / 33 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 106-tone RU 5825 MHz, Ant 0 + Ant 2

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	48.24	33.13	-26.51	-	2.37	57.23	-38.00	27.0	65.0	194	123	-
Hori.	5855.000	PK	47.78	33.14	-26.51	-	2.37	56.78	-38.45	15.6	54.0	194	123	-
Hori.	5875.000	PK	47.59	33.17	-26.51	-	2.37	56.62	-38.61	10.0	48.6	194	123	-
Hori.	5925.000	PK	47.52	33.27	-26.50	-	2.37	56.66	-38.57	-27.0	11.5	194	123	-
Vert.	5850.000	PK	49.61	33.13	-26.51	-	2.37	58.60	-36.63	27.0	63.6	191	112	-
Vert.	5855.000	PK	49.18	33.14	-26.51	-	2.37	58.18	-37.05	15.6	52.6	191	112	-
Vert.	5875.000	PK	48.89	33.17	-26.51	-	2.37	57.92	-37.31	10.0	47.3	191	112	-
Vert.	5925.000	PK	48.33	33.27	-26.50	-	2.37	57.47	-37.76	-27.0	10.7	191	112	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 242-tone RU 5180 MHz, Ant 0 + Ant 2

RU Index 61
(above 1 GHz Inside of the restricted band)

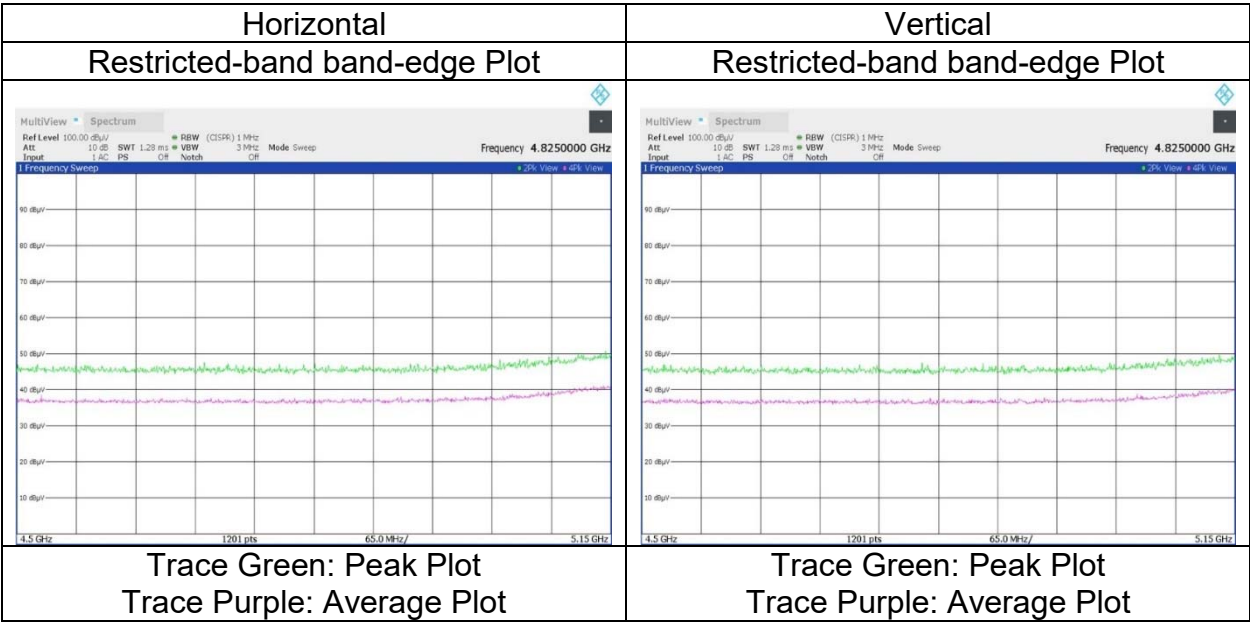
(* PK: Peak, AV: Average, QP: Quasi-Peak)

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	50.17	32.17	-26.97	-	2.37	57.74	73.9	16.1	169	79	-
Hori.	5150.000	AV	41.03	32.17	-26.97	-	2.37	48.60	53.9	5.3	169	79	VBW:20 kHz
Vert.	5150.000	PK	50.14	32.17	-26.97	-	2.37	57.71	73.9	16.1	181	116	-
Vert.	5150.000	AV	40.69	32.17	-26.97	-	2.37	48.26	53.9	5.6	181	116	VBW:20 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

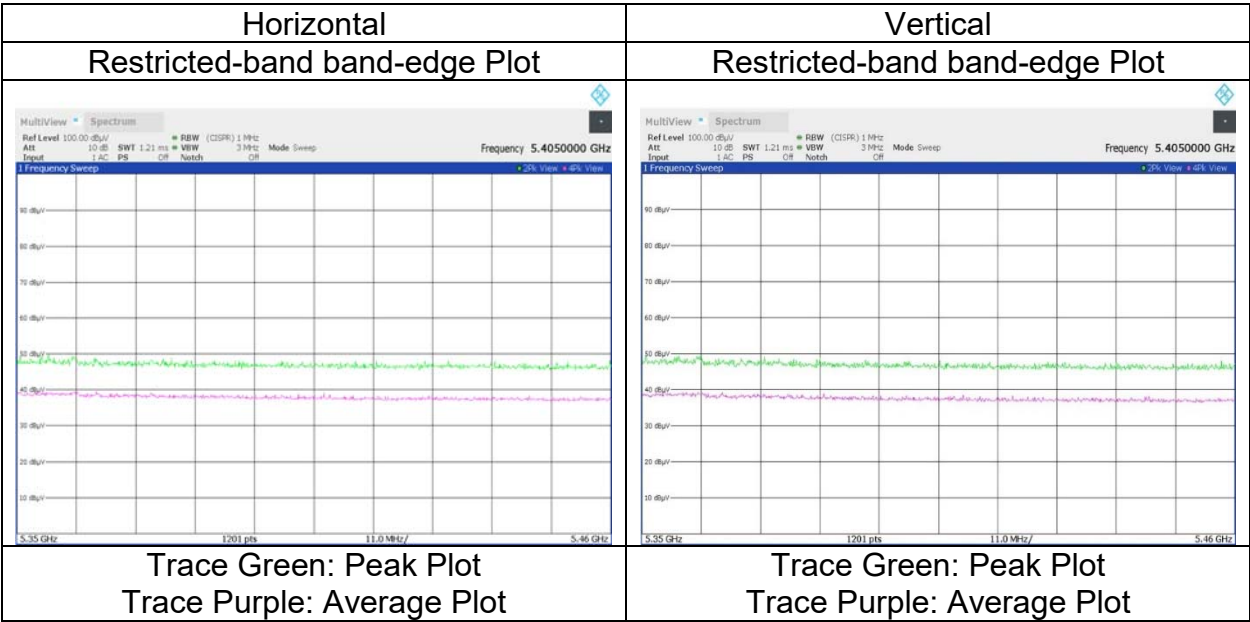
Shonan EMC Lab.
WAC2
January 11, 2024
20 deg. C / 29 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 242-tone RU 5320 MHz, Ant 0 + Ant 2

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	49.63	32.16	-26.77	-	2.37	57.39	73.9	16.5	268	113	-
Hori.	5350.000	AV	39.48	32.16	-26.77	-	2.37	47.24	53.9	6.6	268	113	VBW:20 kHz
Vert.	5350.000	PK	48.93	32.16	-26.77	-	2.37	56.69	73.9	17.2	184	123	-
Vert.	5350.000	AV	39.89	32.16	-26.77	-	2.37	47.65	53.9	6.2	184	123	VBW:20 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 242-tone RU 5500 MHz, Ant 0 + Ant 2

RU Index 61
(above 1 GHz Inside of the restricted band)

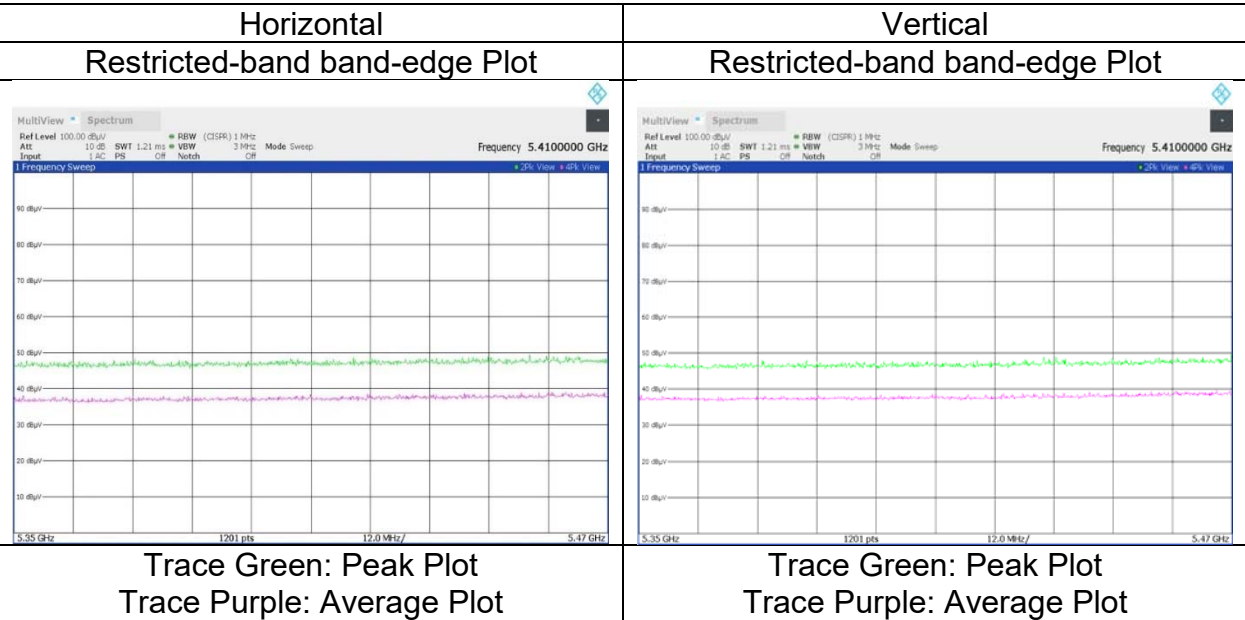
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	38.46	32.46	-26.65	-	2.37	46.64	53.9	7.2	171	72	VBW:20 kHz
Vert.	5460.000	AV	38.37	32.46	-26.65	-	2.37	46.55	53.9	7.3	241	118	VBW:20 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 : 20log (3.940 m / 3.0 m) = 2.37 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.	5460.000	PK	48.44	32.46	-26.65	-	2.37	56.62	-38.61	-27.0	11.6	171	72	-
Hori.	5470.000	PK	48.78	32.49	-26.64	-	2.37	57.00	-38.23	-27.0	11.2	171	72	-
Vert.	5460.000	PK	48.38	32.46	-26.65	-	2.37	56.56	-38.67	-27.0	11.6	241	118	-
Vert.	5470.000	PK	48.65	32.49	-26.64	-	2.37	56.87	-38.36	-27.0	11.3	241	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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

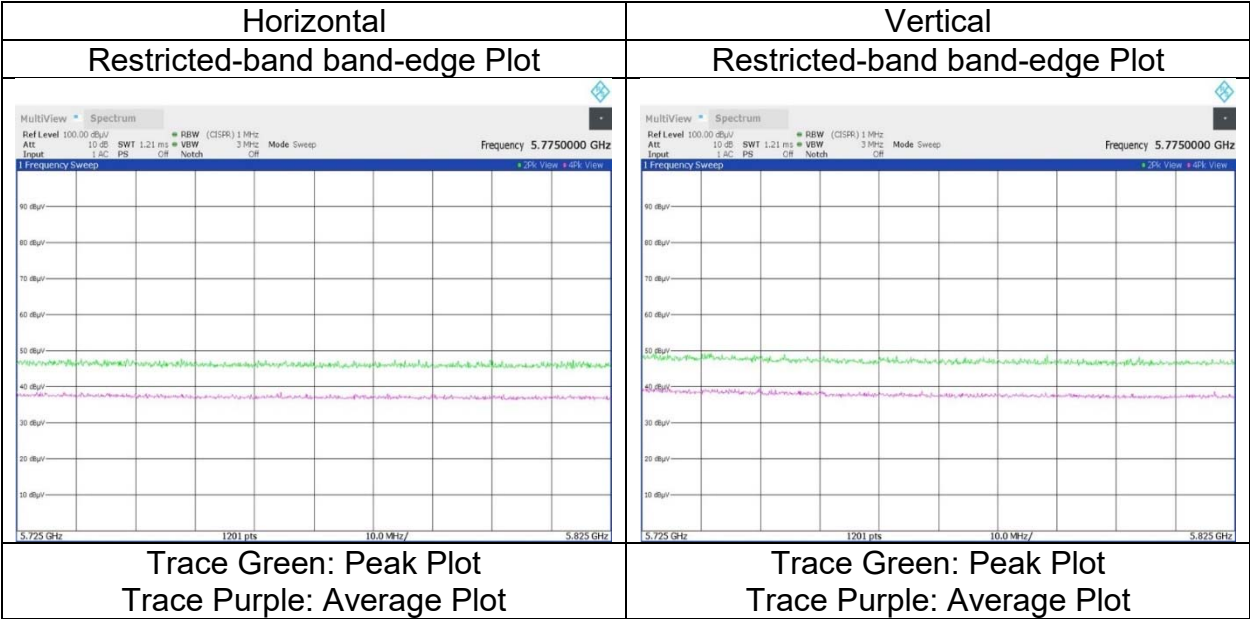
Mode

Shonan EMC Lab.
WAC2
January 11, 2024
20 deg. C / 29 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-20 (OFDMA)(SDM) 242-tone RU 5700 MHz, Ant 0 + Ant 2

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	48.09	33.03	-26.55	-	2.37	56.94	-38.29	-27.0	11.2	249	128	-
Vert.	5725.000	PK	49.69	33.03	-26.55	-	2.37	58.54	-36.69	-27.0	9.6	187	117	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

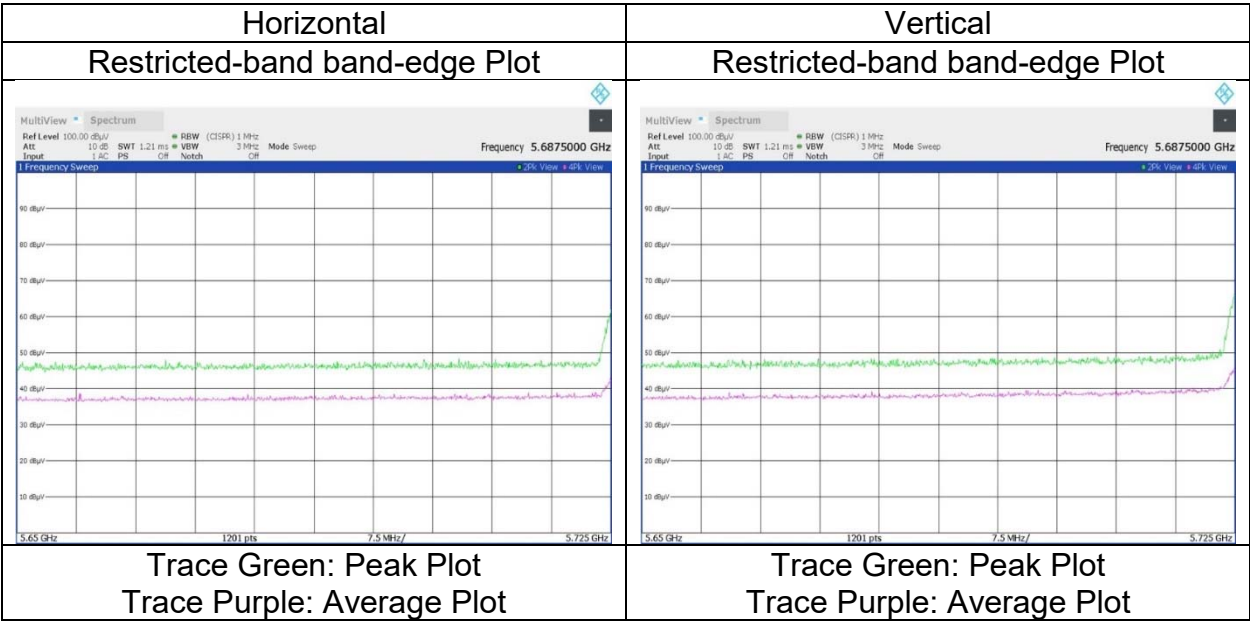
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 242-tone RU 5745 MHz, Ant 0 + Ant 2

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	47.42	32.96	-26.58	-	2.37	56.17	-39.06	-27.0	12.0	238	121	-
Hori.	5700.000	PK	47.59	33.00	-26.56	-	2.37	56.40	-38.83	10.0	48.8	238	121	-
Hori.	5720.000	PK	47.98	33.02	-26.55	-	2.37	56.82	-38.41	15.6	54.0	238	121	-
Hori.	5725.000	PK	60.75	33.03	-26.55	-	2.37	69.60	-25.63	27.0	52.6	238	121	-
Vert.	5650.000	PK	48.25	32.96	-26.58	-	2.37	57.00	-38.23	-27.0	11.2	163	119	-
Vert.	5700.000	PK	48.38	33.00	-26.56	-	2.37	57.19	-38.04	10.0	48.0	163	119	-
Vert.	5720.000	PK	49.09	33.02	-26.55	-	2.37	57.93	-37.30	15.6	52.9	163	119	-
Vert.	5725.000	PK	65.86	33.03	-26.55	-	2.37	74.71	-20.52	27.0	47.5	163	119	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20 (OFDMA)(SDM) 242-tone RU 5825 MHz, Ant 0 + Ant 2

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	49.61	33.13	-26.51	-	2.37	58.60	-36.63	27.0	63.6	188	95	-
Hori.	5855.000	PK	47.85	33.14	-26.51	-	2.37	56.85	-38.38	15.6	53.9	188	95	-
Hori.	5875.000	PK	47.78	33.17	-26.51	-	2.37	56.81	-38.42	10.0	48.4	188	95	-
Hori.	5925.000	PK	47.67	33.27	-26.50	-	2.37	56.81	-38.42	-27.0	11.4	188	95	-
Vert.	5850.000	PK	51.49	33.13	-26.51	-	2.37	60.48	-34.75	27.0	61.7	161	116	-
Vert.	5855.000	PK	48.92	33.14	-26.51	-	2.37	57.92	-37.31	15.6	52.9	161	116	-
Vert.	5875.000	PK	48.22	33.17	-26.51	-	2.37	57.25	-37.98	10.0	47.9	161	116	-
Vert.	5925.000	PK	48.08	33.27	-26.50	-	2.37	57.22	-38.01	-27.0	11.0	161	116	-

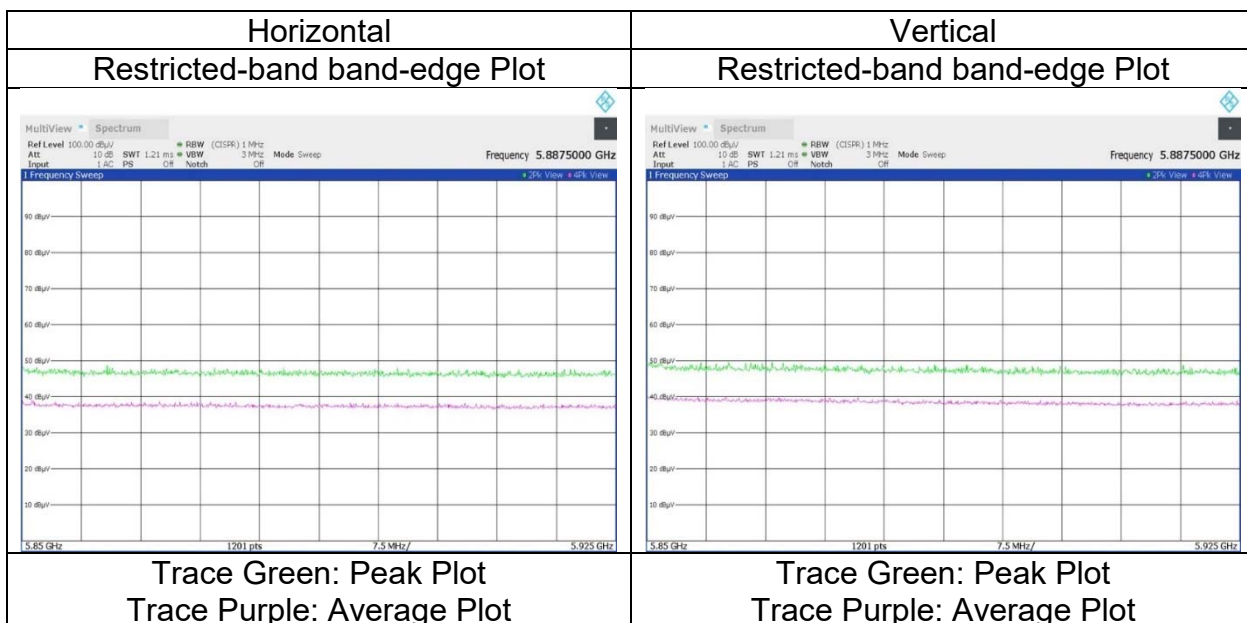
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Result (EIRP [dBm]) = $10 \cdot \log \left((10^{\frac{1}{10}} \cdot \text{Electric Field Strength [dBuV/m]} / 20) \cdot 10^{-6} \cdot \text{Distance} : 3 \text{ [m]} \right)^2 / 30 \cdot 10^{-3}$

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

Distance factor : 1 GHz - 10 GHz : $20 \log (3.940 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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



* 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 WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 26-tone RU 5190 MHz, Ant 0 + Ant 2

RU Index 0
(above 1 GHz Inside of the restricted band)

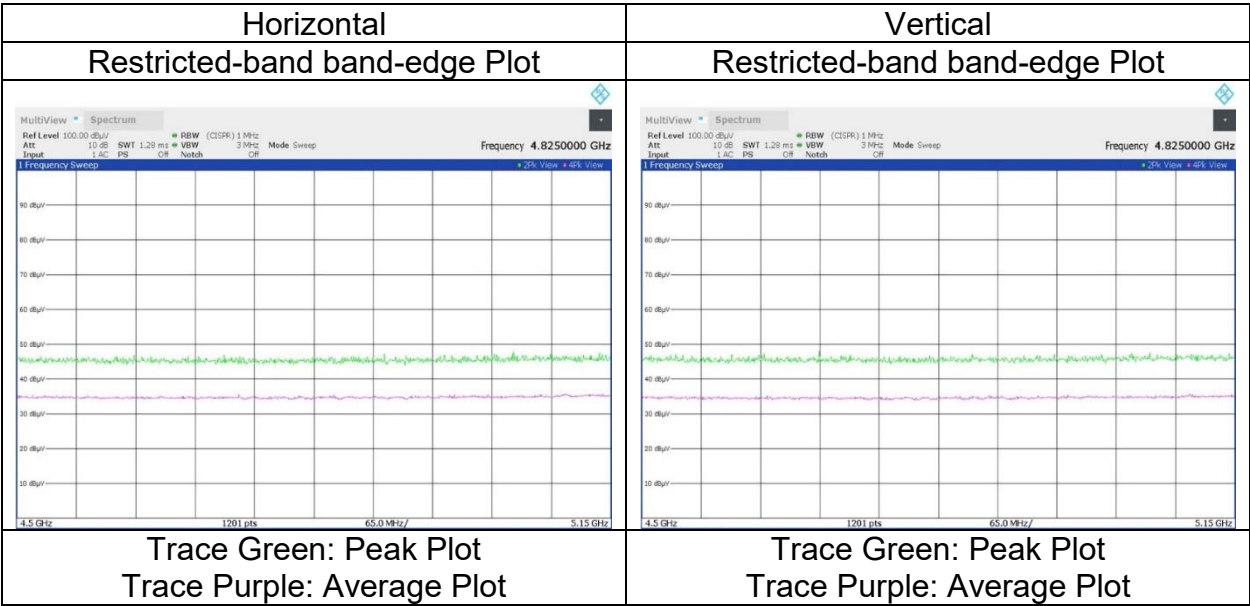
(* PK: Peak, AV: Average, QP: Quasi-Peak)

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	47.78	32.17	-26.97	-	2.37	55.35	73.9	18.5	165	75	-
Hori.	5150.000	AV	35.66	32.17	-26.97	-	2.37	43.23	53.9	10.6	165	75	VBW:5 kHz
Vert.	5150.000	PK	47.96	32.17	-26.97	-	2.37	55.53	73.9	18.3	263	112	-
Vert.	5150.000	AV	35.89	32.17	-26.97	-	2.37	43.46	53.9	10.4	263	112	VBW:5 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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 WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 26-tone RU 5310 MHz, Ant 0 + Ant 2

RU Index 17 (above 1 GHz Inside of the restricted band)

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

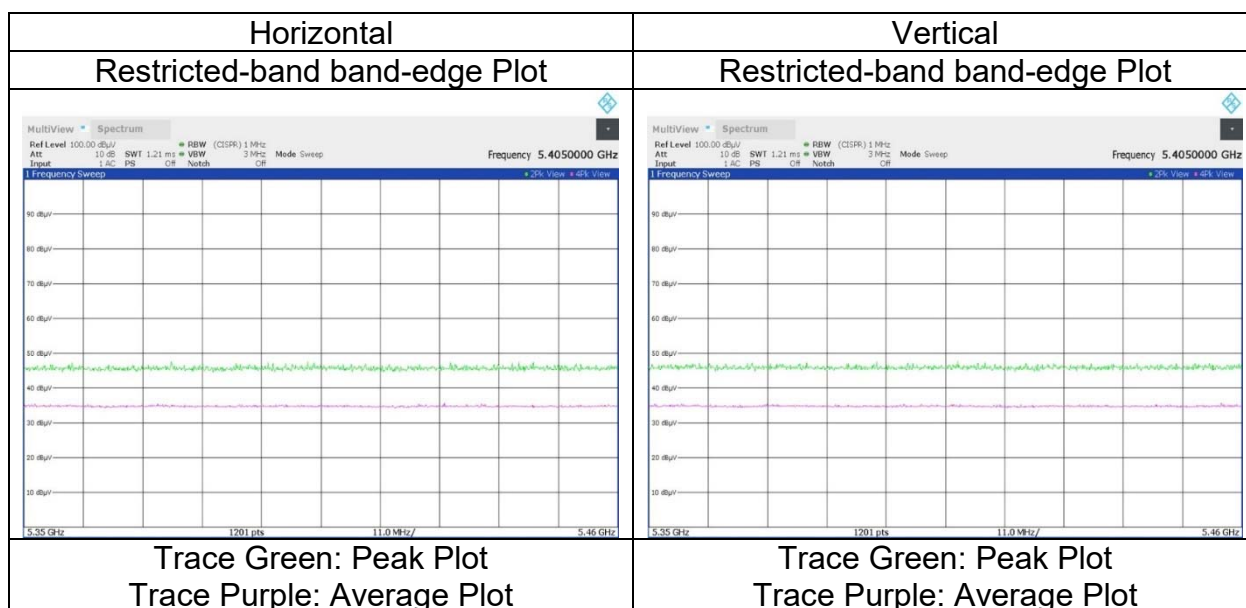
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.26	32.16	-26.77	-	2.37	55.02	73.9	18.8	257	118	-
Hori.	5350.000	AV	35.19	32.16	-26.77	-	2.37	42.95	53.9	10.9	257	118	VBW:5 kHz
Vert.	5350.000	PK	47.74	32.16	-26.77	-	2.37	55.50	73.9	18.4	168	123	-
Vert.	5350.000	AV	35.45	32.16	-26.77	-	2.37	43.21	53.9	10.6	168	123	VBW:5 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



* 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 WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 26-tone RU 5510 MHz, Ant 0 + Ant 2

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	AV	35.33	32.46	-26.65	-	2.37	43.51	53.9	10.3	272	122	VBW:5 kHz
Vert.	5460.000	AV	35.72	32.46	-26.65	-	2.37	43.90	53.9	10.0	196	121	VBW:5 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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)

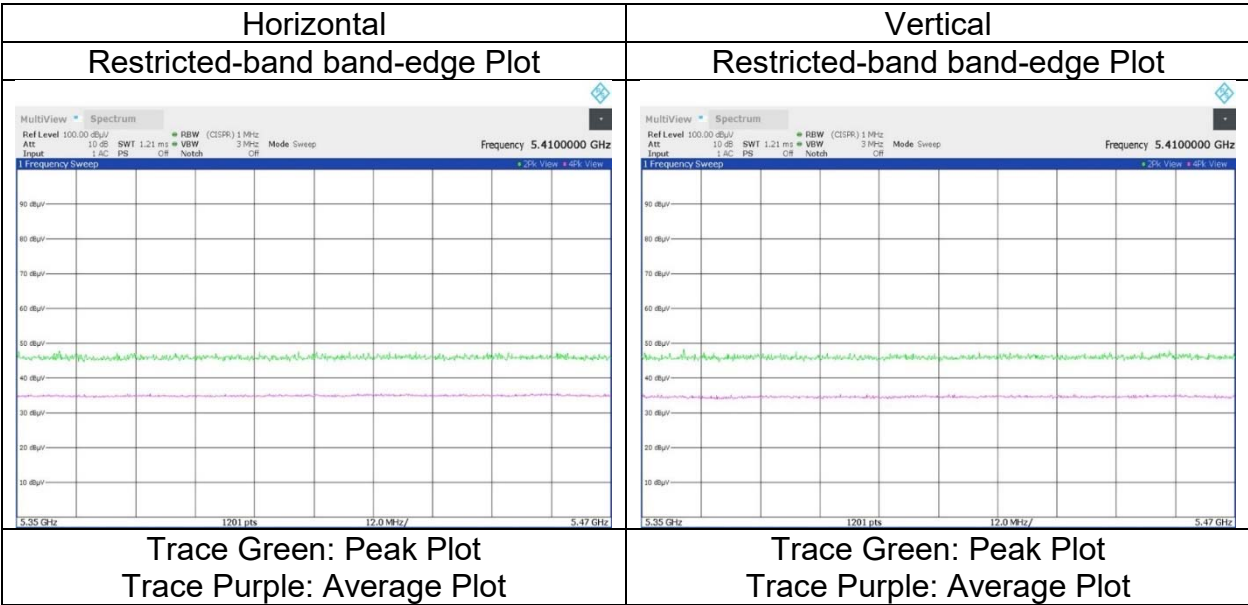
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.11	32.46	-26.65	-	2.37	55.29	-39.94	-27.0	12.9	272	122	-
Hori.	5470.000	PK	47.95	32.49	-26.64	-	2.37	56.17	-39.06	-27.0	12.0	272	122	-
Vert.	5460.000	PK	48.06	32.46	-26.65	-	2.37	56.24	-38.99	-27.0	11.9	196	121	-
Vert.	5470.000	PK	48.22	32.49	-26.64	-	2.37	56.44	-38.79	-27.0	11.7	196	121	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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.

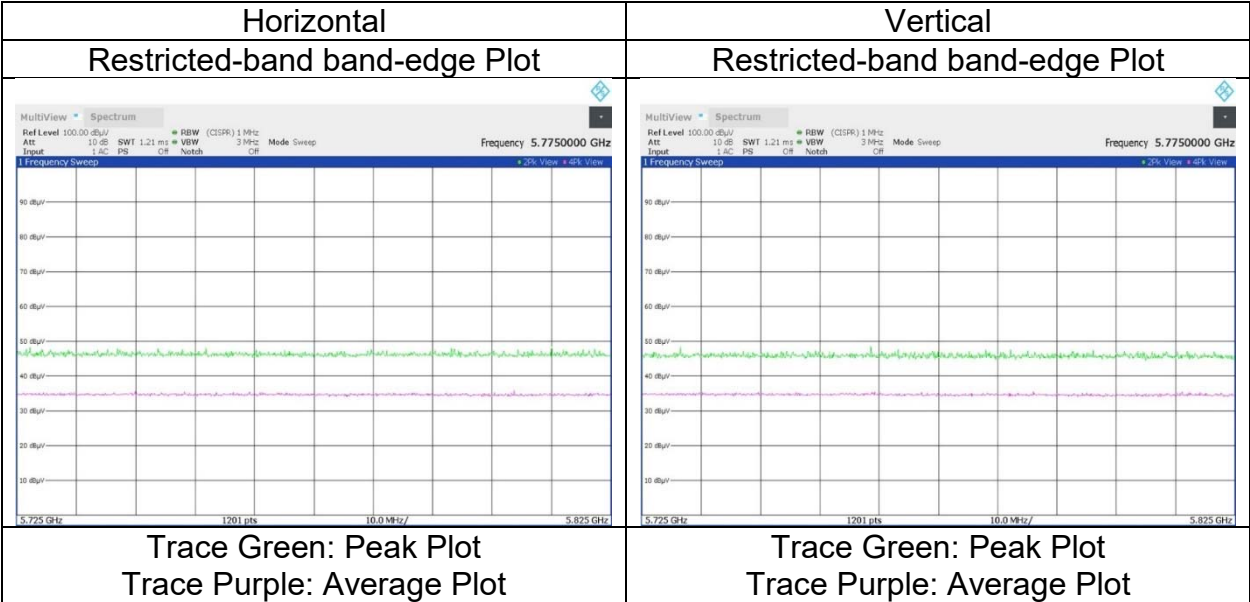
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 11, 2024
Temperature / Humidity 20 deg. C / 29 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 26-tone RU 5670 MHz, Ant 0 + Ant 2

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	47.49	33.03	-26.55	-	2.37	56.34	-38.89	-27.0	11.8	228	127	-
Vert.	5725.000	PK	47.58	33.03	-26.55	-	2.37	56.43	-38.80	-27.0	11.8	208	115	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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

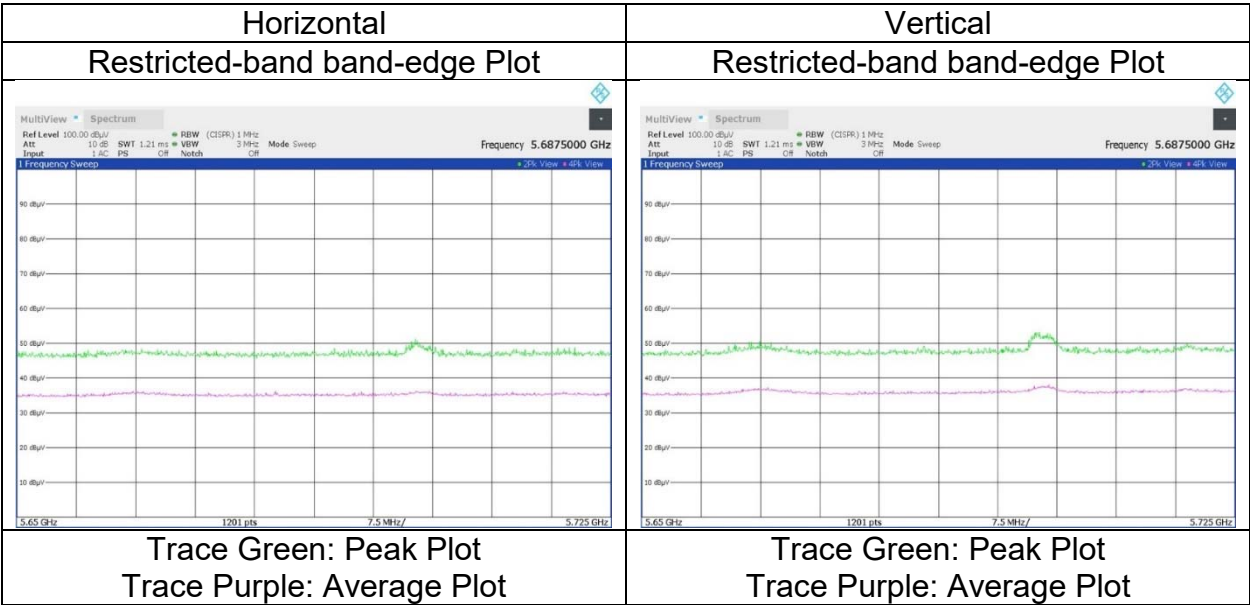
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 11, 2024
20 deg. C / 29 % RH
Kenichi Adachi
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 26-tone RU 5755 MHz, Ant 0 + Ant 2

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	47.53	32.96	-26.58	-	2.37	56.28	-38.95	-27.0	11.9	219	125	-
Hori.	5700.000	PK	48.76	33.00	-26.56	-	2.37	57.57	-37.66	10.0	47.6	219	125	-
Hori.	5700.864	PK	50.32	33.00	-26.56	-	2.37	59.13	-36.10	10.3	46.4	219	125	-
Hori.	5720.000	PK	48.23	33.02	-26.55	-	2.37	57.07	-38.16	15.6	53.7	219	125	-
Hori.	5725.000	PK	46.68	33.03	-26.55	-	2.37	55.53	-39.70	27.0	66.7	219	125	-
Vert.	5650.000	PK	48.04	32.96	-26.58	-	2.37	56.79	-38.44	-27.0	11.4	184	121	-
Vert.	5700.000	PK	53.39	33.00	-26.56	-	2.37	62.20	-33.03	10.0	43.0	184	121	-
Vert.	5700.739	PK	53.44	33.00	-26.56	-	2.37	62.25	-32.98	10.3	43.2	184	121	-
Vert.	5720.000	PK	48.72	33.02	-26.55	-	2.37	57.56	-37.67	15.6	53.2	184	121	-
Vert.	5725.000	PK	48.46	33.03	-26.55	-	2.37	57.31	-37.92	27.0	64.9	184	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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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	WAC2	WAC2
Date	May 4, 2024	April 17, 2024
Temperature / Humidity	23 deg. C / 49 % RH	24 deg. C / 50 % RH
Engineer	Miku Ikudome	Makoto Hosaka
	(1 GHz to 10 GHz)	(10 GHz to 40 GHz)
Mode	Tx 11ax-40 (OFDMA)(SDM) 26-tone RU 5795 MHz, Ant 0 + Ant 2	

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.	11590.000	PK	60.54	37.95	-32.21	-	-9.54	56.74	73.9	17.1	148	81	-
Hori.	11590.000	AV	48.32	37.95	-32.21	-	-9.54	44.52	53.9	9.3	148	81	VBW: 5 kHz
Vert.	11590.000	PK	61.13	37.95	-32.21	-	-9.54	57.33	73.9	16.5	160	190	-
Vert.	11590.000	AV	49.21	37.95	-32.21	-	-9.54	45.41	53.9	8.4	160	190	VBW: 5 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	17385.000	PK	47.62	40.30	-29.88	-	-9.54	48.50	-46.73	-27.0	19.7	150	0	Floor noise
Vert.	17385.000	PK	47.82	40.30	-29.88	-	-9.54	48.70	-46.53	-27.0	19.5	150	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2
Date	January 11, 2024
Temperature / Humidity	20 deg. C / 29 % RH
Engineer	Kenichi Adachi
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-40 (OFDMA)(SDM) 26-tone RU 5795 MHz, Ant 0 + Ant 2

RU Index 17

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

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

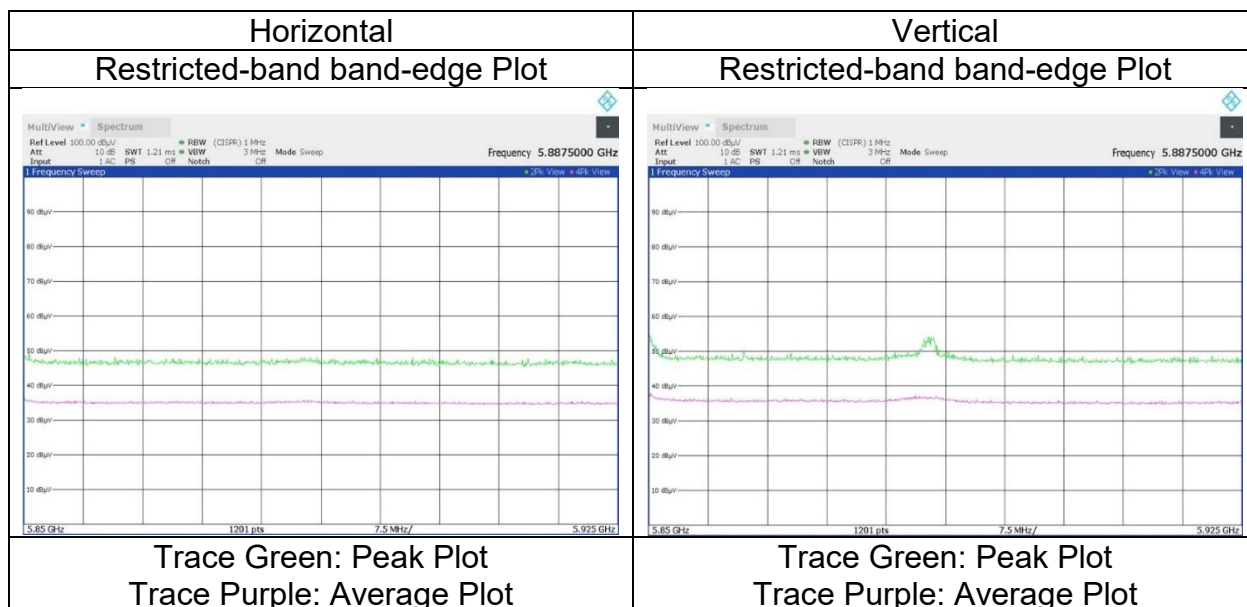
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dBm]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remarks
Hori.	5850.000	PK	48.98	33.13	-26.51	0.00	2.37	57.97	-37.26	27.0	64.2	174	121	-
Hori.	5855.000	PK	47.87	33.14	-26.51	0.00	2.37	56.87	-38.36	15.6	53.9	174	121	-
Hori.	5875.000	PK	47.74	33.17	-26.51	0.00	2.37	56.77	-38.46	10.0	48.4	174	121	-
Hori.	5885.314	PK	48.22	33.18	-26.51	0.00	2.37	57.26	-37.97	2.4	40.3	174	121	-
Hori.	5925.000	PK	47.49	33.27	-26.50	0.00	2.37	56.63	-38.60	-27.0	11.6	174	121	-
Vert.	5850.000	PK	53.33	33.13	-26.51	0.00	2.37	62.32	-32.91	27.0	59.9	189	115	-
Vert.	5855.000	PK	48.55	33.14	-26.51	0.00	2.37	57.55	-37.68	15.6	53.2	189	115	-
Vert.	5875.000	PK	48.47	33.17	-26.51	0.00	2.37	57.50	-37.73	10.0	47.7	189	115	-
Vert.	5885.314	PK	52.98	33.18	-26.51	0.00	2.37	62.02	-33.21	2.4	35.6	189	115	-
Vert.	5925.000	PK	48.41	33.27	-26.50	0.00	2.37	57.55	-37.68	-27.0	10.6	189	115	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log (3.940 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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


* 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

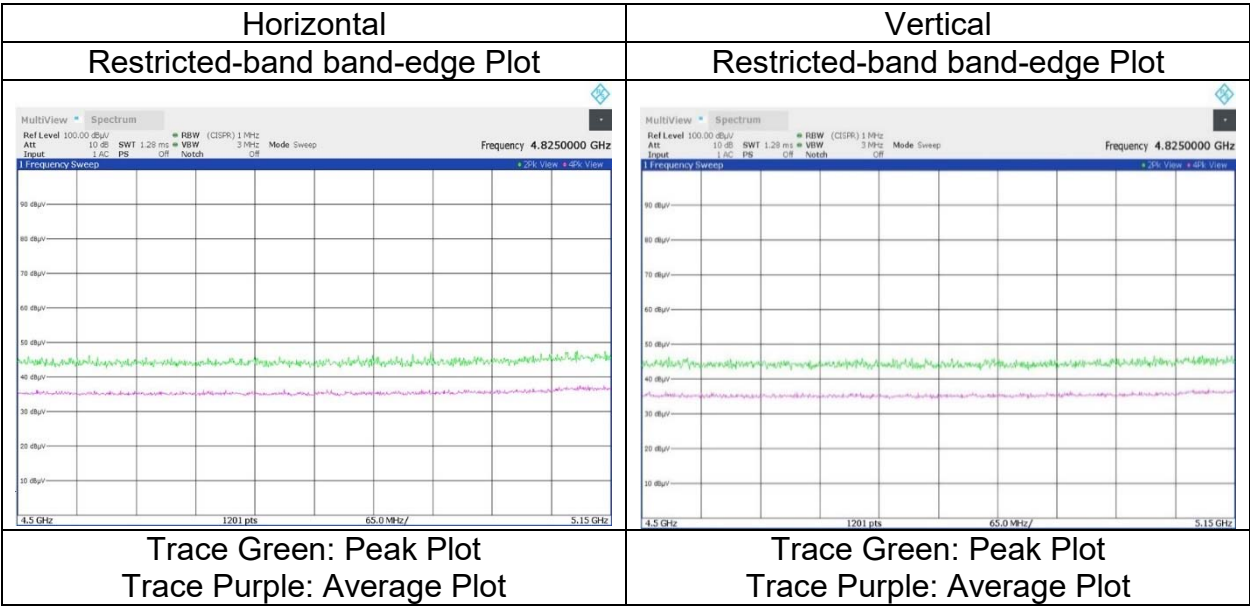
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 52-tone RU 5190 MHz, Ant 0 + Ant 2

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	48.76	32.17	-26.97	-	2.37	56.33	73.9	17.5	152	80	-
Hori.	5150.000	AV	37.68	32.17	-26.97	-	2.37	45.25	53.9	8.6	152	80	VBW:10 kHz
Vert.	5150.000	PK	48.64	32.17	-26.97	-	2.37	56.21	73.9	17.6	264	111	-
Vert.	5150.000	AV	37.58	32.17	-26.97	-	2.37	45.15	53.9	8.7	264	111	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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

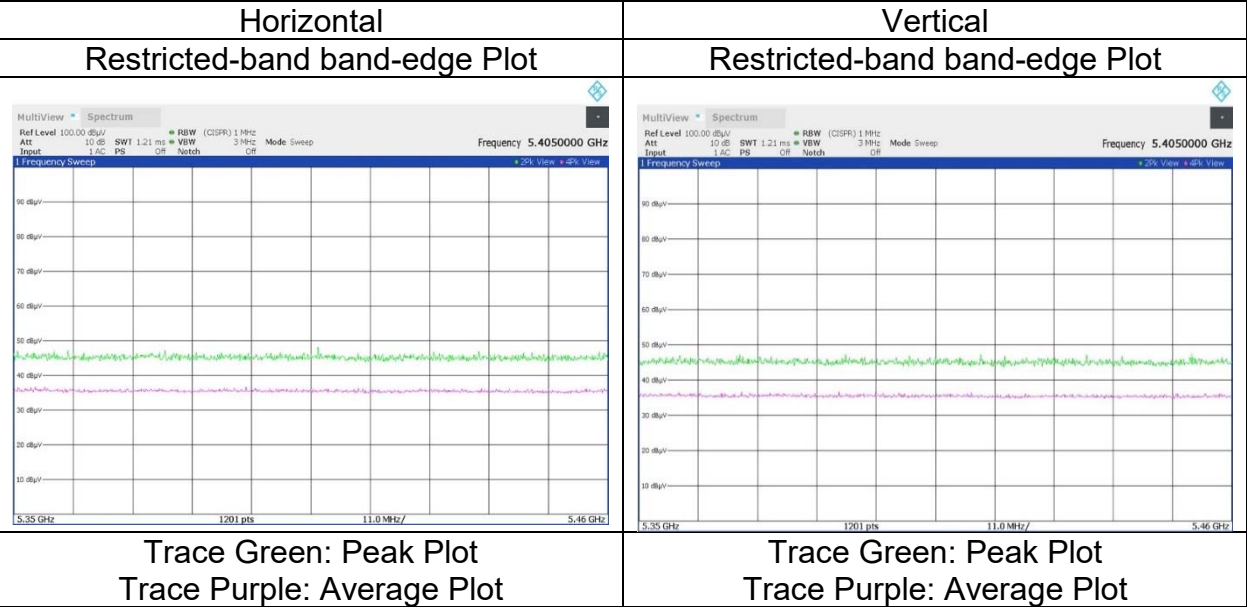
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 52-tone RU 5310 MHz, Ant 0 + Ant 2

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	48.12	32.16	-26.77	-	2.37	55.88	73.9	18.0	320	119	-
Hori.	5350.000	AV	36.73	32.16	-26.77	-	2.37	44.49	53.9	9.4	320	119	VBW:10 kHz
Vert.	5350.000	PK	48.37	32.16	-26.77	-	2.37	56.13	73.9	17.7	183	116	-
Vert.	5350.000	AV	36.79	32.16	-26.77	-	2.37	44.55	53.9	9.3	183	116	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2
Date January 12, 2024
Temperature / Humidity 21 deg. C / 30 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 52-tone RU 5510 MHz, Ant 0 + Ant 2

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	AV	37.43	32.46	-26.65	-	2.37	45.61	53.9	8.2	151	107	VBW:10 kHz
Vert.	5460.000	AV	37.11	32.46	-26.65	-	2.37	45.29	53.9	8.6	225	118	VBW:10 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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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)

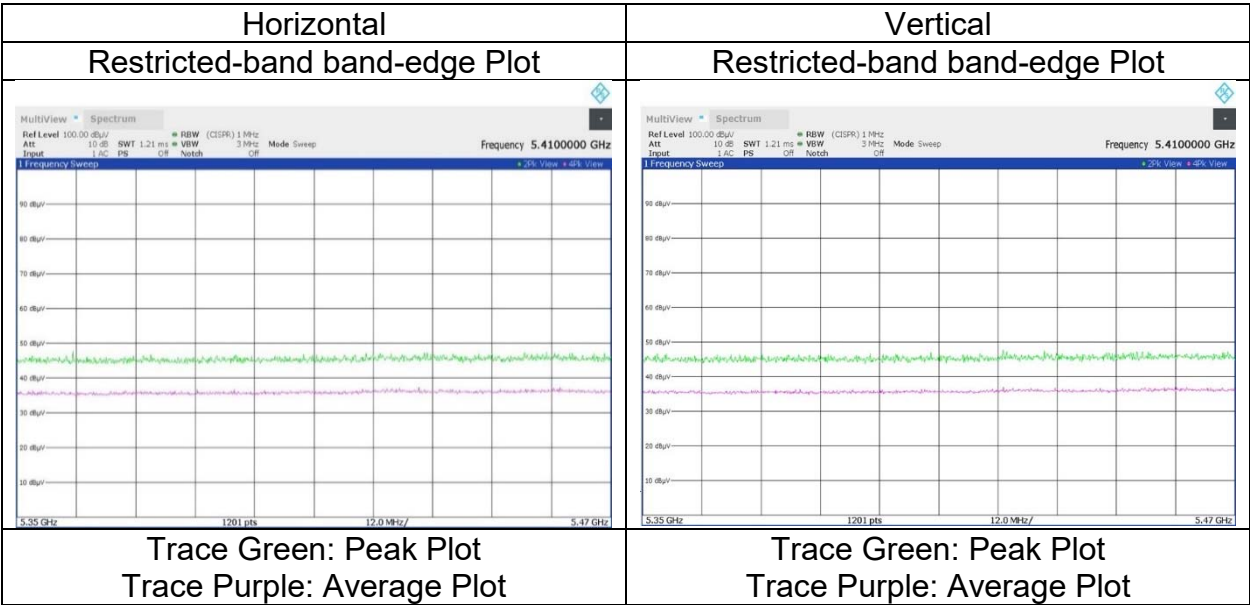
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.51	32.46	-26.65	-	2.37	56.69	-38.54	-27.0	11.5	151	107	-
Hori.	5470.000	PK	48.69	32.49	-26.64	-	2.37	56.91	-38.32	-27.0	11.3	151	107	-
Vert.	5460.000	PK	48.28	32.46	-26.65	-	2.37	56.46	-38.77	-27.0	11.7	225	118	-
Vert.	5470.000	PK	48.16	32.49	-26.64	-	2.37	56.38	-38.85	-27.0	11.8	225	118	-

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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

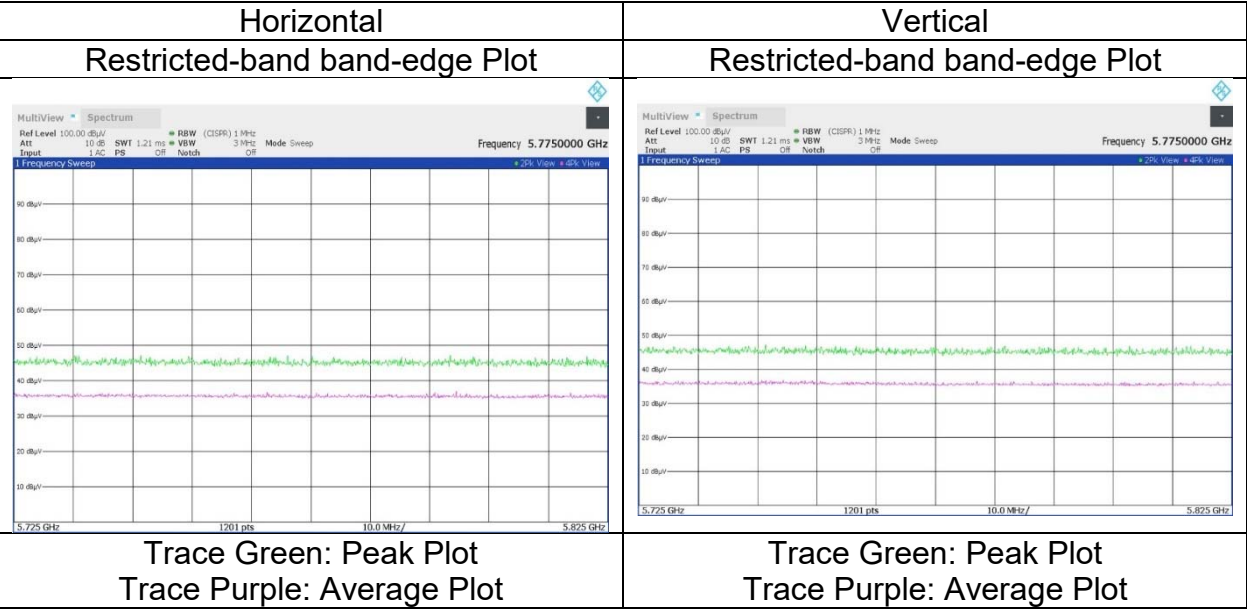
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 52-tone RU 5670 MHz, Ant 0 + Ant 2

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	48.12	33.03	-26.55	-	2.37	56.97	-38.26	-27.0	11.2	226	129	-
Vert.	5725.000	PK	47.97	33.03	-26.55	-	2.37	56.82	-38.41	-27.0	11.4	213	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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

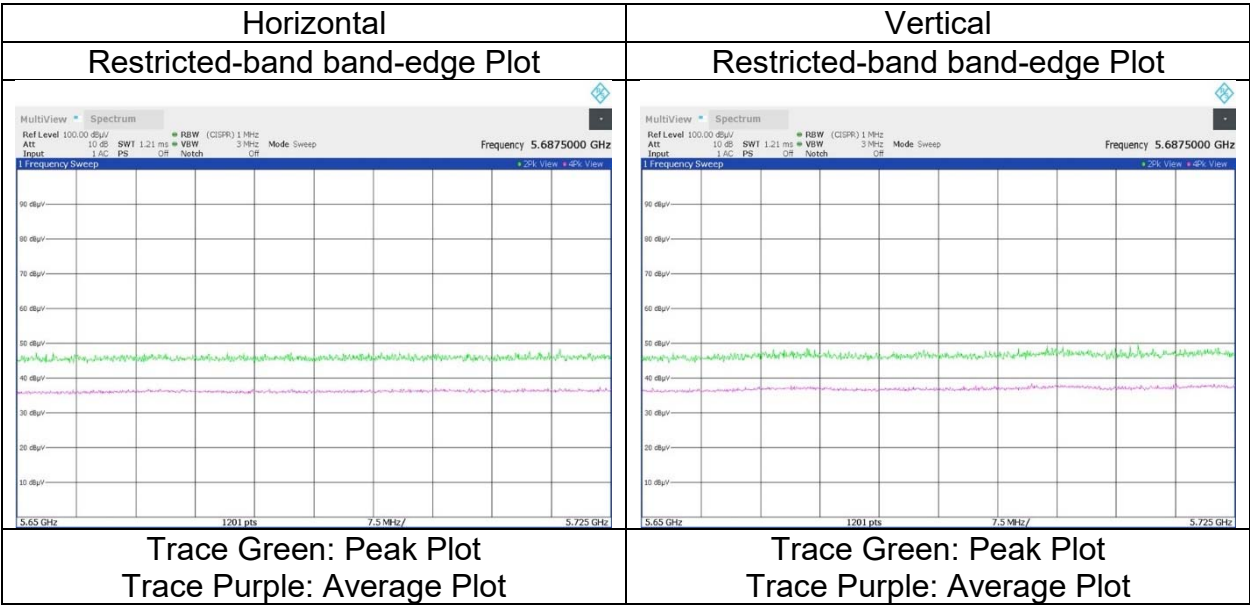
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 12, 2024
Temperature / Humidity 21 deg. C / 30 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 52-tone RU 5755 MHz, Ant 0 + Ant 2

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	47.66	32.96	-26.58	-	2.37	56.41	-38.82	-27.0	11.8	200	93	-
Hori.	5700.000	PK	48.75	33.00	-26.56	-	2.37	57.56	-37.67	10.0	47.6	200	93	-
Hori.	5720.000	PK	48.69	33.02	-26.55	-	2.37	57.53	-37.70	15.6	53.3	200	93	-
Hori.	5725.000	PK	48.95	33.03	-26.55	-	2.37	57.80	-37.43	27.0	64.4	200	93	-
Vert.	5650.000	PK	47.91	32.96	-26.58	-	2.37	56.66	-38.57	-27.0	11.5	192	119	-
Vert.	5700.000	PK	49.56	33.00	-26.56	-	2.37	58.37	-36.86	10.0	46.8	192	119	-
Vert.	5720.000	PK	49.93	33.02	-26.55	-	2.37	58.77	-36.46	15.6	52.0	192	119	-
Vert.	5725.000	PK	49.91	33.03	-26.55	-	2.37	58.76	-36.47	27.0	63.4	192	119	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 52-tone RU 5795 MHz, Ant 0 + Ant 2

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	48.32	33.13	-26.51	-	2.37	57.31	-37.92	27.0	64.9	198	92	-
Hori.	5855.000	PK	47.85	33.14	-26.51	-	2.37	56.85	-38.38	15.6	53.9	198	92	-
Hori.	5875.000	PK	47.90	33.17	-26.51	-	2.37	56.93	-38.30	10.0	48.3	198	92	-
Hori.	5925.000	PK	47.44	33.27	-26.50	-	2.37	56.58	-38.65	-27.0	11.6	198	92	-
Vert.	5850.000	PK	49.01	33.13	-26.51	-	2.37	58.00	-37.23	27.0	64.2	207	120	-
Vert.	5855.000	PK	48.84	33.14	-26.51	-	2.37	57.84	-37.39	15.6	52.9	207	120	-
Vert.	5875.000	PK	48.63	33.17	-26.51	-	2.37	57.66	-37.57	10.0	47.5	207	120	-
Vert.	5925.000	PK	47.80	33.27	-26.50	-	2.37	56.94	-38.29	-27.0	11.2	207	120	-

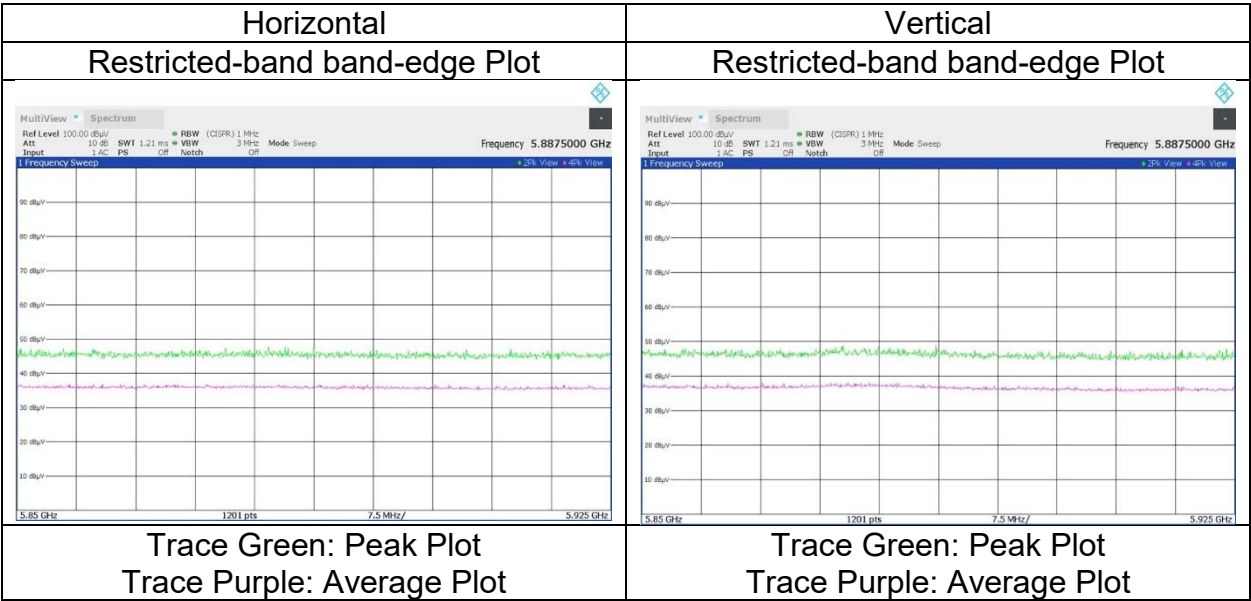
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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 (3.940 m / 3.0 m) = 2.37 dB

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



* 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

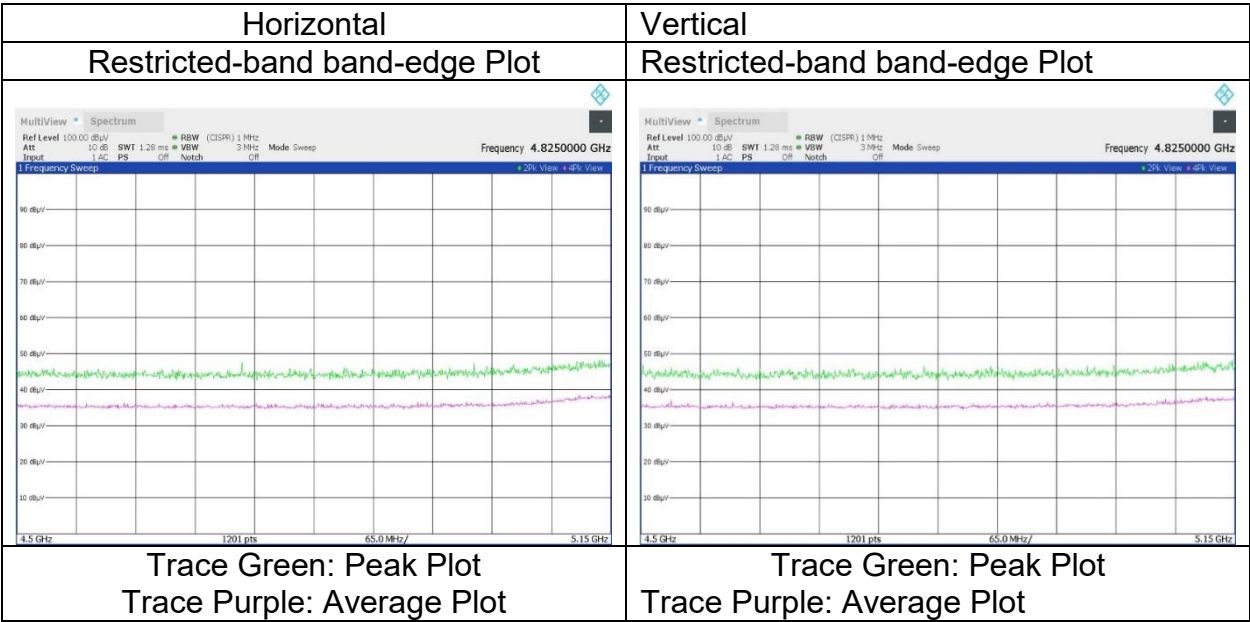
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 106-tone RU 5190 MHz, Ant 0 + Ant 2

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	49.83	32.17	-26.97	-	2.37	57.40	73.9	16.5	176	75	-
Hori.	5150.000	AV	38.95	32.17	-26.97	-	2.37	46.52	53.9	7.3	176	75	VBW:10 kHz
Vert.	5150.000	PK	49.73	32.17	-26.97	-	2.37	57.30	73.9	16.6	235	123	-
Vert.	5150.000	AV	38.69	32.17	-26.97	-	2.37	46.26	53.9	7.6	235	123	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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

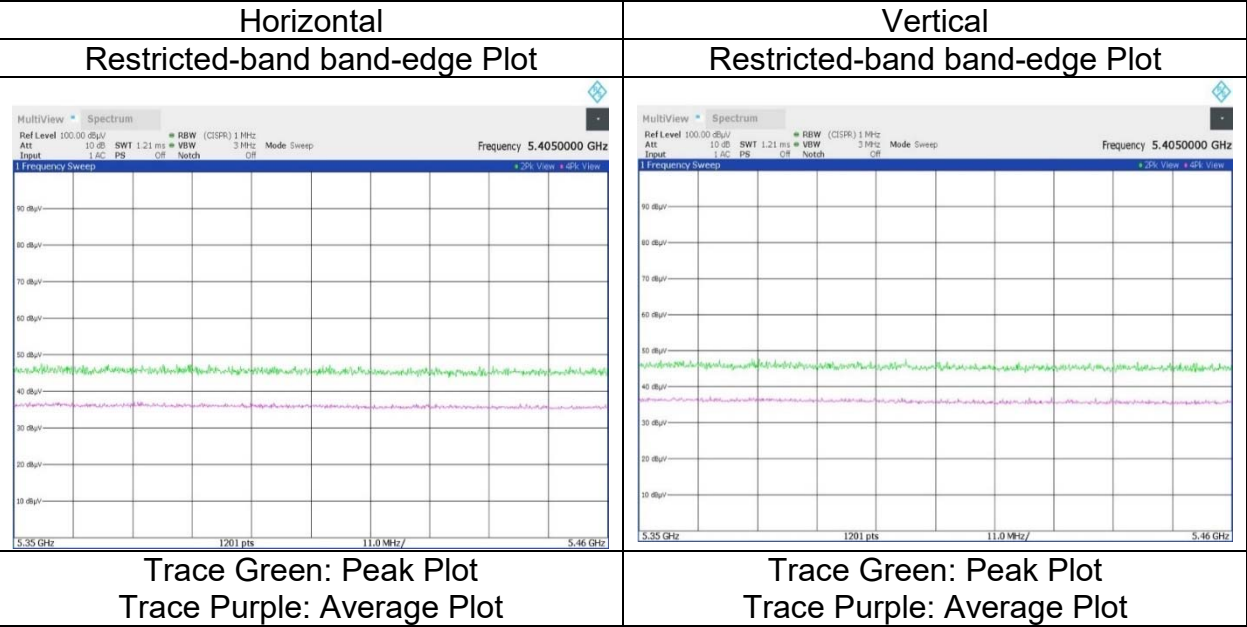
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 106-tone RU 5310 MHz, Ant 0 + Ant 2

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	48.32	32.16	-26.77	-	2.37	56.08	73.9	17.8	324	122	-
Hori.	5350.000	AV	37.21	32.16	-26.77	-	2.37	44.97	53.9	8.9	324	122	VBW:10 kHz
Vert.	5350.000	PK	48.99	32.16	-26.77	-	2.37	56.75	73.9	17.1	178	123	-
Vert.	5350.000	AV	37.54	32.16	-26.77	-	2.37	45.30	53.9	8.6	178	123	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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 WAC2
Date January 12, 2024
Temperature / Humidity 21 deg. C / 30 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 106-tone RU 5510 MHz, Ant 0 + Ant 2

RU Index 53
(above 1 GHz Inside of the restricted band)

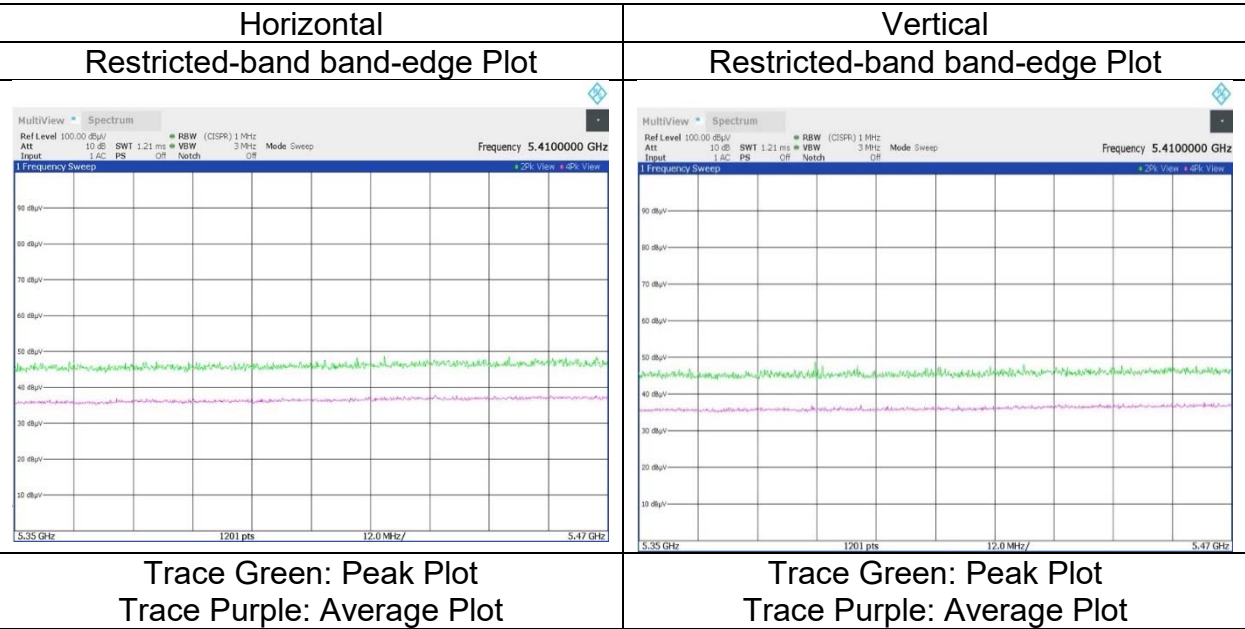
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	38.20	32.46	-26.65	-	2.37	46.38	53.9	7.5	305	122	VBW:10 kHz
Vert.	5460.000	AV	37.78	32.46	-26.65	-	2.37	45.96	53.9	7.9	225	119	VBW:10 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 : 20log (3.940 m / 3.0 m) = 2.37 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.	5460.000	PK	49.53	32.46	-26.65	-	2.37	57.71	-37.52	-27.0	10.5	305	122	-
Hori.	5470.000	PK	48.96	32.49	-26.64	-	2.37	57.18	-38.05	-27.0	11.0	305	122	-
Vert.	5460.000	PK	49.16	32.46	-26.65	-	2.37	57.34	-37.89	-27.0	10.8	225	119	-
Vert.	5470.000	PK	48.58	32.49	-26.64	-	2.37	56.80	-38.43	-27.0	11.4	225	119	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

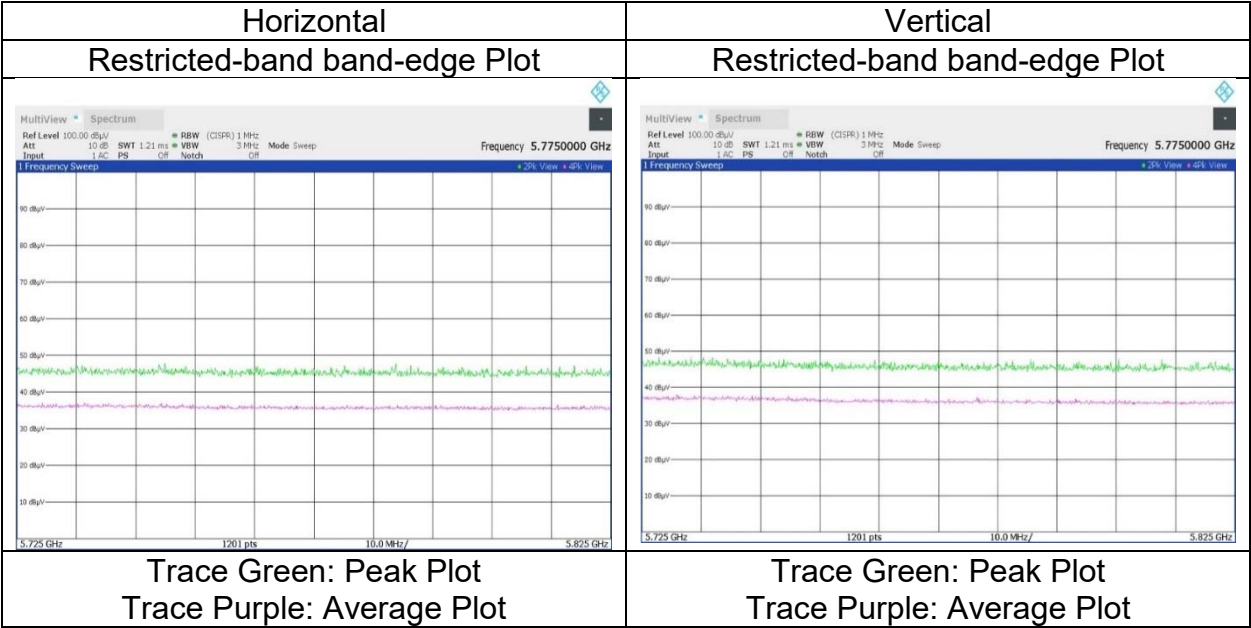
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 106-tone RU 5670 MHz, Ant 0 + Ant 2

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	48.55	33.03	-26.55	-	2.37	57.40	-37.83	-27.0	10.8	237	124	-
Vert.	5725.000	PK	48.63	33.03	-26.55	-	2.37	57.48	-37.75	-27.0	10.7	171	122	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

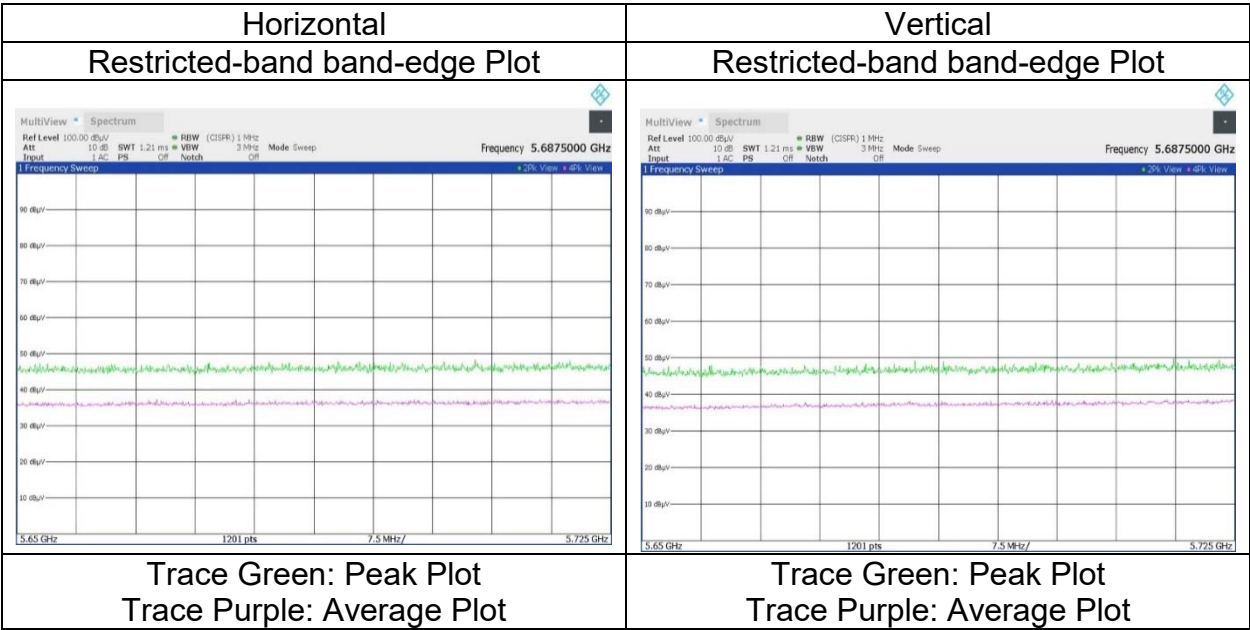
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 12, 2024
Temperature / Humidity 21 deg. C / 30 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 106-tone RU 5755 MHz, Ant 0 + Ant 2

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	47.55	32.96	-26.58	-	2.37	56.30	-38.93	-27.0	11.9	233	131	-
Hori.	5700.000	PK	47.74	33.00	-26.56	-	2.37	56.55	-38.68	10.0	48.6	233	131	-
Hori.	5720.000	PK	48.41	33.02	-26.55	-	2.37	57.25	-37.98	15.6	53.5	233	131	-
Hori.	5725.000	PK	48.69	33.03	-26.55	-	2.37	57.54	-37.69	27.0	64.6	233	131	-
Vert.	5650.000	PK	48.51	32.96	-26.58	-	2.37	57.26	-37.97	-27.0	10.9	154	120	-
Vert.	5700.000	PK	48.84	33.00	-26.56	-	2.37	57.65	-37.58	10.0	47.5	154	120	-
Vert.	5720.000	PK	49.91	33.02	-26.55	-	2.37	58.75	-36.48	15.6	52.0	154	120	-
Vert.	5725.000	PK	49.89	33.03	-26.55	-	2.37	58.74	-36.49	27.0	63.4	154	120	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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

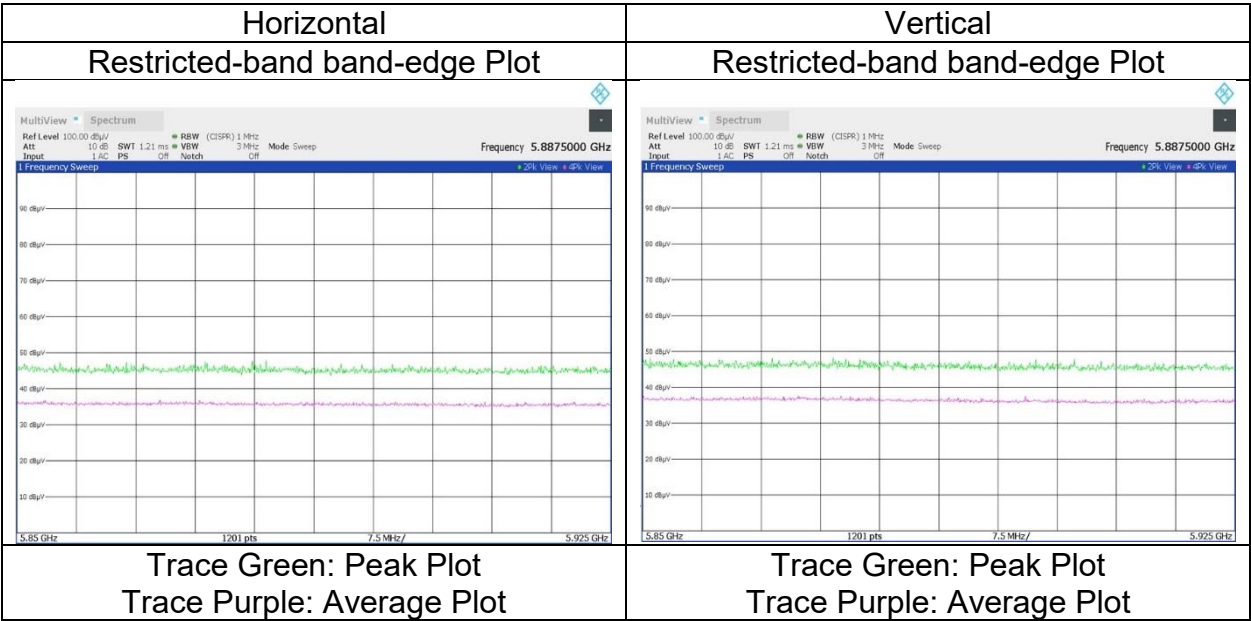
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 12, 2024
21 deg. C / 30 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 106-tone RU 5795 MHz, Ant 0 + Ant 2

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	47.65	33.13	-26.51	-	2.37	56.64	-38.59	27.0	65.5	254	125	-
Hori.	5855.000	PK	47.98	33.14	-26.51	-	2.37	56.98	-38.25	15.6	53.8	254	125	-
Hori.	5875.000	PK	47.59	33.17	-26.51	-	2.37	56.62	-38.61	10.0	48.6	254	125	-
Hori.	5925.000	PK	47.32	33.27	-26.50	-	2.37	56.46	-38.77	-27.0	11.7	254	125	-
Vert.	5850.000	PK	49.22	33.13	-26.51	-	2.37	58.21	-37.02	27.0	64.0	217	126	-
Vert.	5855.000	PK	48.74	33.14	-26.51	-	2.37	57.74	-37.49	15.6	53.0	217	126	-
Vert.	5875.000	PK	48.71	33.17	-26.51	-	2.37	57.74	-37.49	10.0	47.4	217	126	-
Vert.	5925.000	PK	47.92	33.27	-26.50	-	2.37	57.06	-38.17	-27.0	11.1	217	126	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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	WAC2
Date	January 15, 2024
Temperature / Humidity	21 deg. C / 32 % RH
Engineer	Yusuke Tanikawara (1 GHz to 6.4 GHz)
Mode	Tx 11ax-40 (OFDMA)(SDM) 242-tone RU 5190 MHz, Ant 0 + Ant 2

RU Index 61
(above 1 GHz Inside of the restricted band)

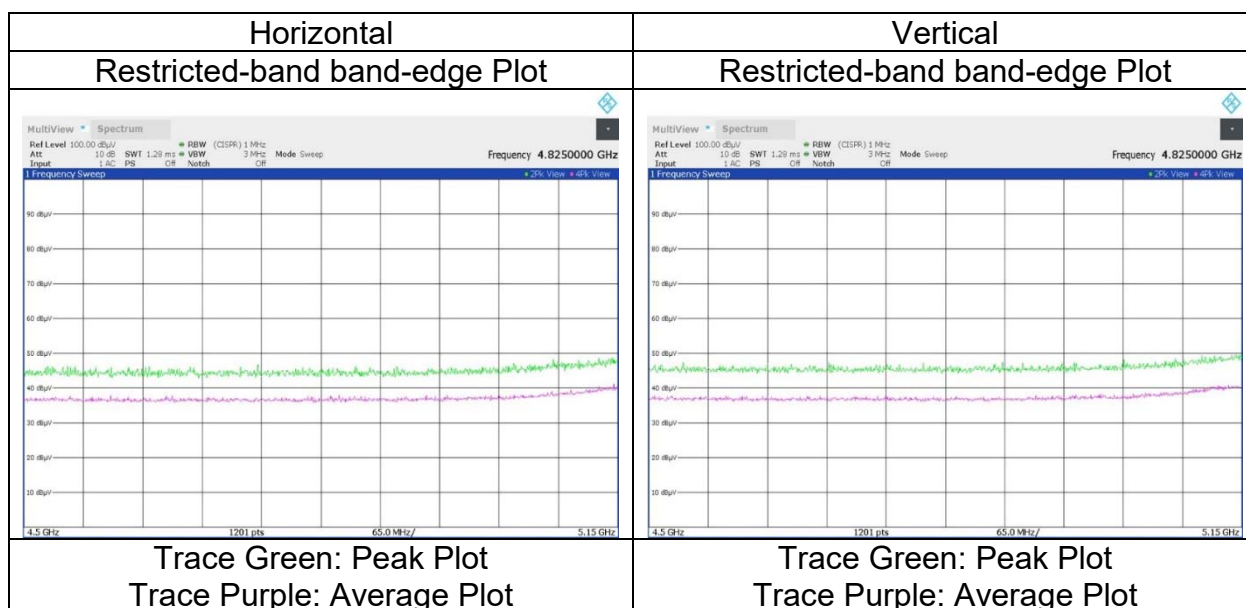
(* PK: Peak, AV: Average, QP: Quasi-Peak)

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	49.94	32.17	-26.97	-	2.37	57.51	73.9	16.3	174	75	
Hori.	5150.000	AV	41.23	32.17	-26.97	-	2.37	48.80	53.9	5.1	174	75	VBW:20 kHz
Vert.	5150.000	PK	50.11	32.17	-26.97	-	2.37	57.68	73.9	16.2	271	110	
Vert.	5150.000	AV	41.32	32.17	-26.97	-	2.37	48.89	53.9	5.0	271	110	VBW:20 kHz

Volt:	0.000000	7.9V	-41.62	52.17	28.97		2.97	-48.55	55.9
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 : $20\log (3.940 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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


* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 15, 2024
21 deg. C / 32 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 242-tone RU 5310 MHz, Ant 0 + Ant 2

RU Index 62
(above 1 GHz Inside of the restricted band)

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

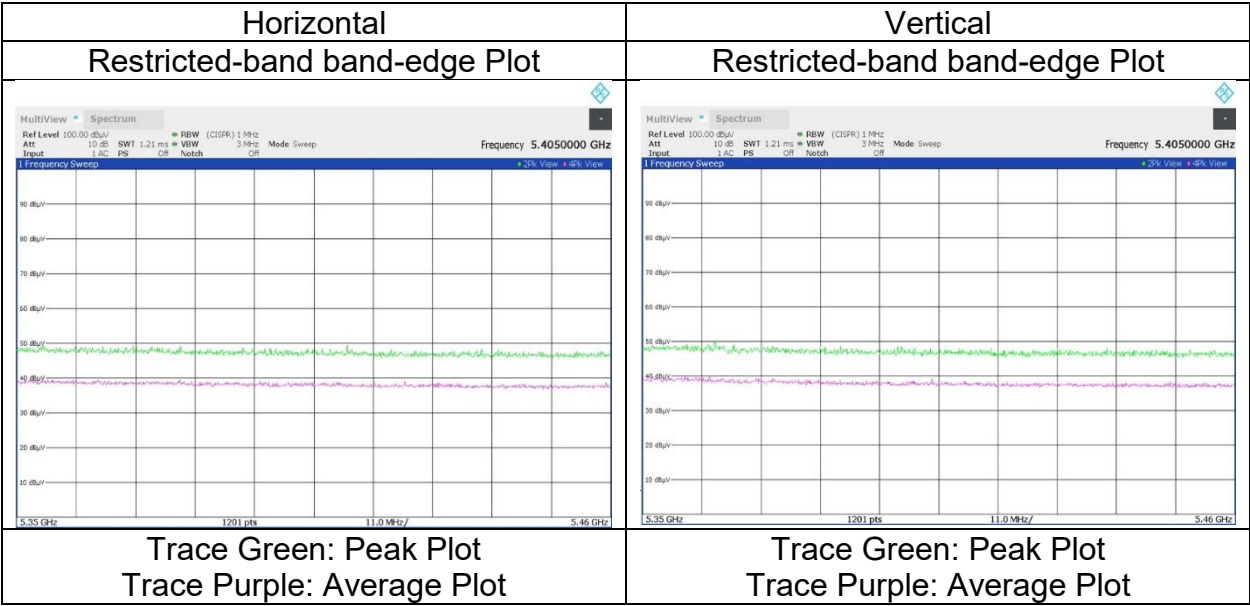
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.43	32.16	-26.77	-	2.37	57.19	73.9	16.7	277	127	-
Hori.	5350.000	AV	40.01	32.16	-26.77	-	2.37	47.77	53.9	6.1	277	127	VBW:20 kHz
Vert.	5350.000	PK	49.34	32.16	-26.77	-	2.37	57.10	73.9	16.8	166	123	-
Vert.	5350.000	AV	39.97	32.16	-26.77	-	2.37	47.73	53.9	6.1	166	123	VBW:20 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 : 20log (3.940 m / 3.0 m) = 2.37 dB

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



* 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 WAC2
Date January 15, 2024
Temperature / Humidity 21 deg. C / 32 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 242-tone RU 5510 MHz, Ant 0 + Ant 2

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	AV	39.85	32.46	-26.65	-	2.37	48.03	53.9	5.8	155	110	VBW:20 kHz
Vert.	5460.000	AV	39.48	32.46	-26.65	-	2.37	47.66	53.9	6.2	225	119	VBW:20 kHz

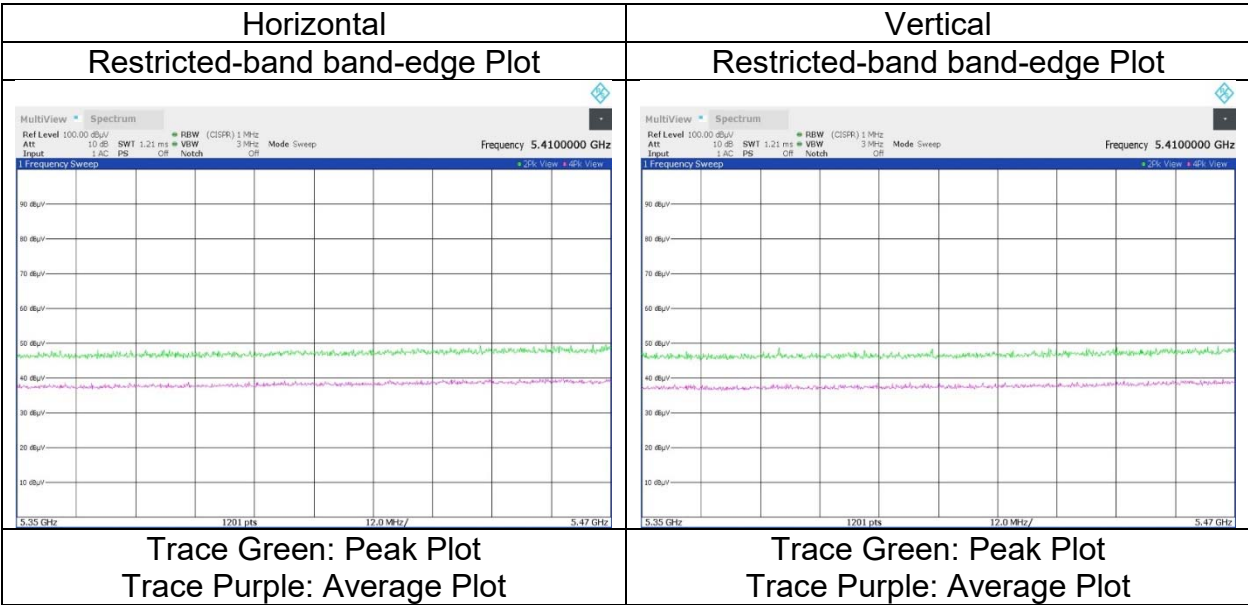
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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.	5460.000	PK	49.56	32.46	-26.65	-	2.37	57.74	-37.49	-27.0	10.4	155	110	-
Hori.	5470.000	PK	49.19	32.49	-26.64	-	2.37	57.41	-37.82	-27.0	10.8	155	110	-
Vert.	5460.000	PK	49.31	32.46	-26.65	-	2.37	57.49	-37.74	-27.0	10.7	225	119	-
Vert.	5470.000	PK	48.85	32.49	-26.64	-	2.37	57.07	-38.16	-27.0	11.1	225	119	-

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 : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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

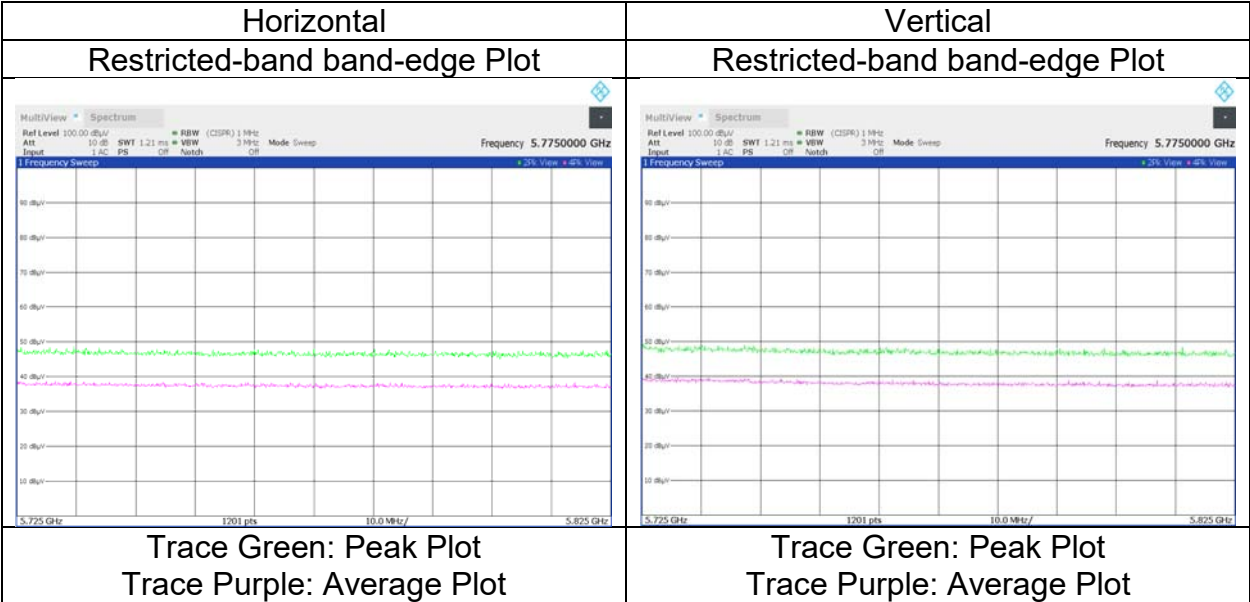
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 15, 2024
21 deg. C / 32 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 242-tone RU 5670 MHz, Ant 0 + Ant 2

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	48.23	33.03	-26.55	-	2.37	57.08	-38.15	-27.0	11.1	231	132	-
Vert.	5725.000	PK	49.41	33.03	-26.55	-	2.37	58.26	-36.97	-27.0	9.9	154	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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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

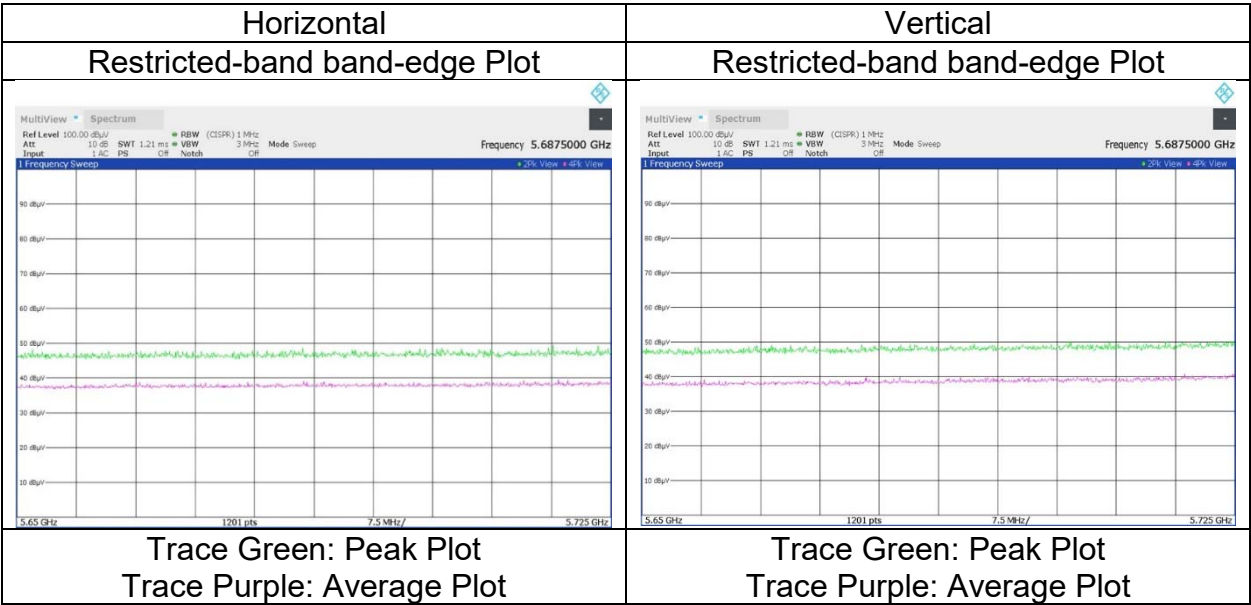
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 15, 2024
21 deg. C / 32 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 242-tone RU 5755 MHz, Ant 0 + Ant 2

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	47.76	32.96	-26.58	-	2.37	56.51	-38.72	-27.0	11.7	218	127	-
Hori.	5700.000	PK	48.43	33.00	-26.56	-	2.37	57.24	-37.99	10.0	47.9	218	127	-
Hori.	5720.000	PK	48.53	33.02	-26.55	-	2.37	57.37	-37.86	15.6	53.4	218	127	-
Hori.	5725.000	PK	48.75	33.03	-26.55	-	2.37	57.60	-37.63	27.0	64.6	218	127	-
Vert.	5650.000	PK	48.12	32.96	-26.58	-	2.37	56.87	-38.36	-27.0	11.3	153	124	-
Vert.	5700.000	PK	49.18	33.00	-26.56	-	2.37	57.99	-37.24	10.0	47.2	153	124	-
Vert.	5720.000	PK	49.72	33.02	-26.55	-	2.37	58.56	-36.67	15.6	52.2	153	124	-
Vert.	5725.000	PK	50.68	33.03	-26.55	-	2.37	59.53	-35.70	27.0	62.7	153	124	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.

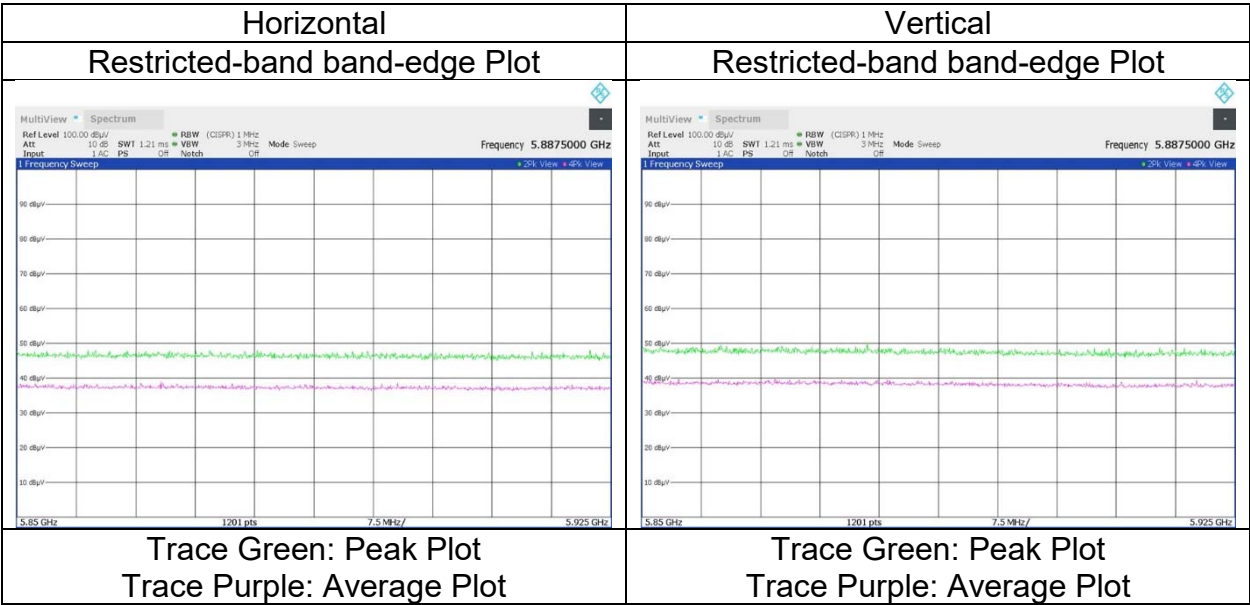
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 15, 2024
Temperature / Humidity 21 deg. C / 32 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 242-tone RU 5795 MHz, Ant 0 + Ant 2

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	48.16	33.13	-26.51	-	2.37	57.15	-38.08	27.0	65.0	194	97	-
Hori.	5855.000	PK	47.43	33.14	-26.51	-	2.37	56.43	-38.80	15.6	54.4	194	97	-
Hori.	5875.000	PK	47.65	33.17	-26.51	-	2.37	56.68	-38.55	10.0	48.5	194	97	-
Hori.	5925.000	PK	47.56	33.27	-26.50	-	2.37	56.70	-38.53	-27.0	11.5	194	97	-
Vert.	5850.000	PK	49.42	33.13	-26.51	-	2.37	58.41	-36.82	27.0	63.8	212	123	-
Vert.	5855.000	PK	48.75	33.14	-26.51	-	2.37	57.75	-37.48	15.6	53.0	212	123	-
Vert.	5875.000	PK	48.53	33.17	-26.51	-	2.37	57.56	-37.67	10.0	47.6	212	123	-
Vert.	5925.000	PK	47.84	33.27	-26.50	-	2.37	56.98	-38.25	-27.0	11.2	212	123	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

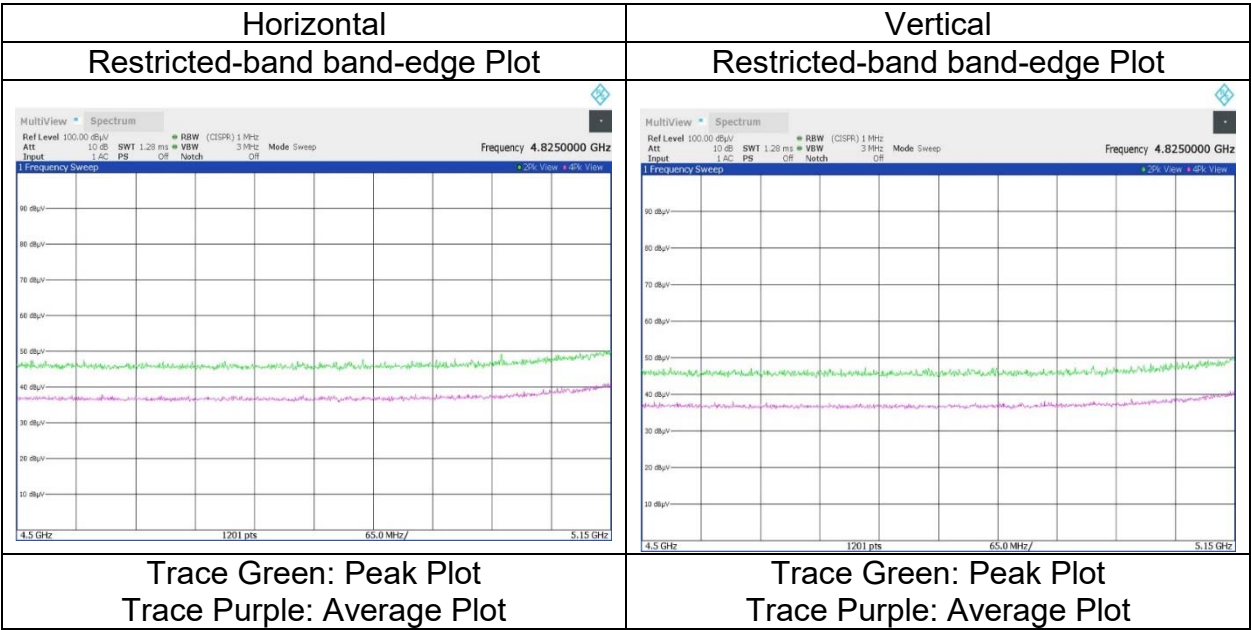
Shonan EMC Lab.
WAC2
January 15, 2024
21 deg. C / 32 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 484-tone RU 5190 MHz, Ant 0 + Ant 2

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	50.85	32.17	-26.97	-	2.37	58.42	73.9	15.4	177	76	-
Hori.	5150.000	AV	41.32	32.17	-26.97	-	2.37	48.89	53.9	5.0	177	76	VBW:20 kHz
Vert.	5150.000	PK	50.43	32.17	-26.97	-	2.37	58.00	73.9	15.9	231	128	-
Vert.	5150.000	AV	40.95	32.17	-26.97	-	2.37	48.52	53.9	5.3	231	128	VBW:20 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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

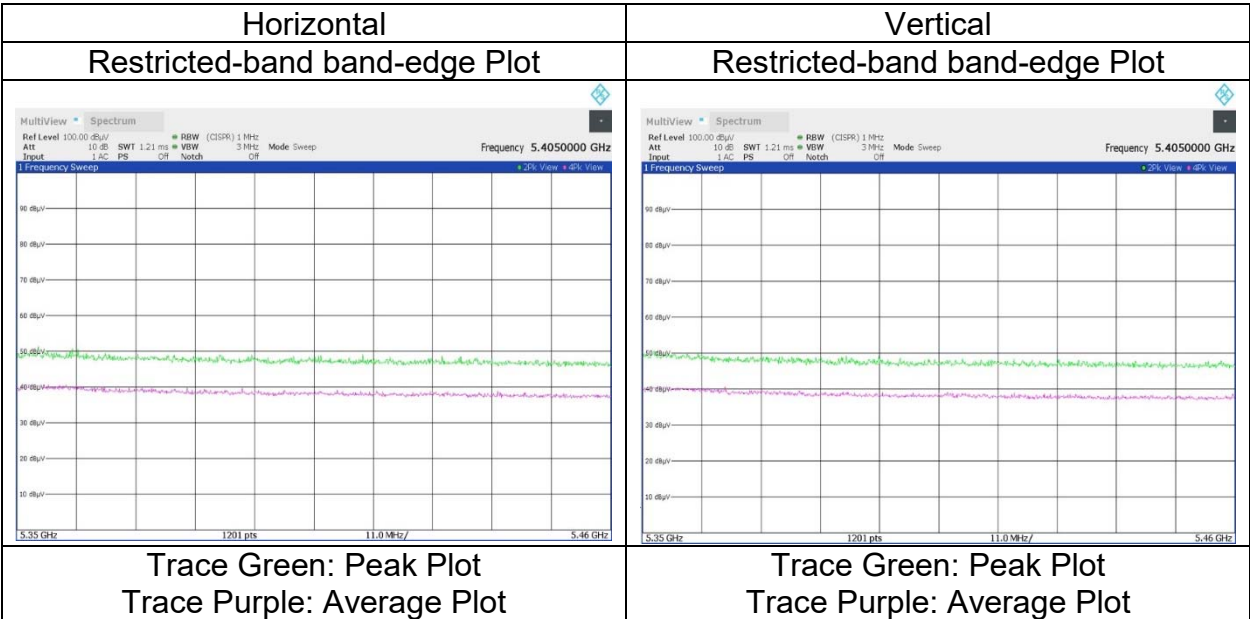
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 15, 2024
21 deg. C / 32 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-40 (OFDMA)(SDM) 484-tone RU 5310 MHz, Ant 0 + Ant 2

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	49.75	32.16	-26.77	-	2.37	57.51	73.9	16.3	270	126	-
Hori.	5350.000	AV	40.45	32.16	-26.77	-	2.37	48.21	53.9	5.6	270	126	VBW:20 kHz
Vert.	5350.000	PK	50.05	32.16	-26.77	-	2.37	57.81	73.9	16.0	158	122	-
Vert.	5350.000	AV	40.74	32.16	-26.77	-	2.37	48.50	53.9	5.4	158	122	VBW:20 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 : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



* 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.