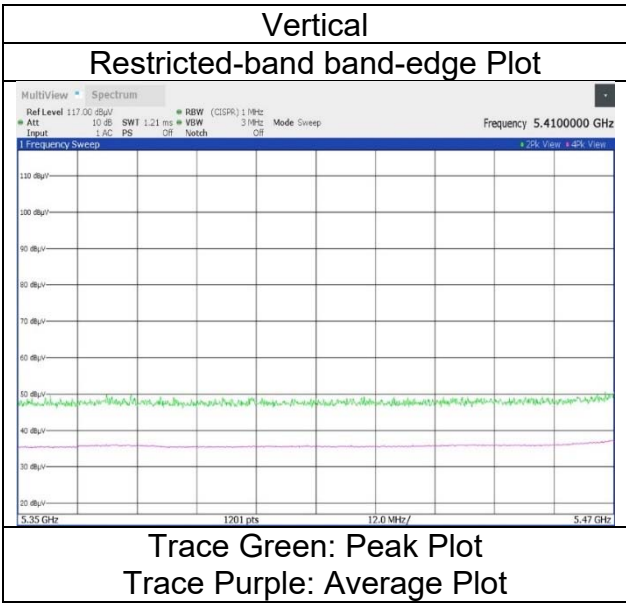
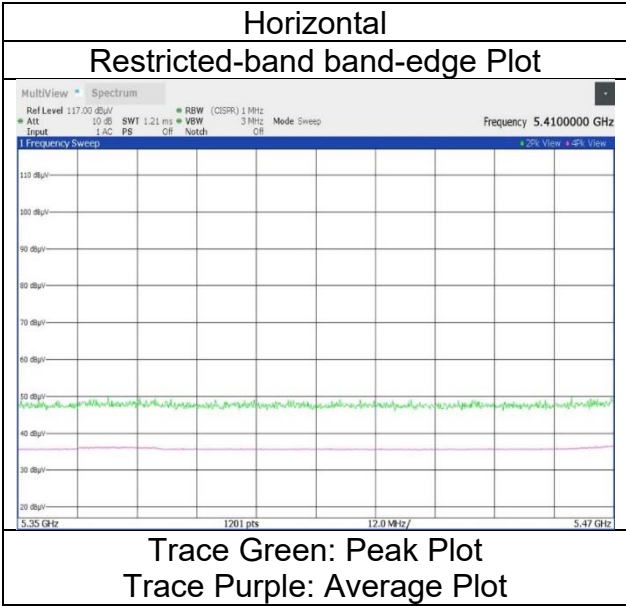


Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
23 deg. C / 30 % RH
Miku Ikudome
Tx 11a 5520 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 25, 2025
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Miku Ikudome
 (1 GHz to 6.4 GHz)
Mode Tx 11a 5680 MHz

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)																
Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]		
Hori.	5725.000	PK	53.27	32.38	16.71	43.37	-	2.46	61.45	-33.78	-27.0	6.7	152	87		
Vert.	5725.000	PK	52.22	32.38	16.71	43.37	-	2.46	60.40	-34.83	-27.0	7.8	161	66		

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

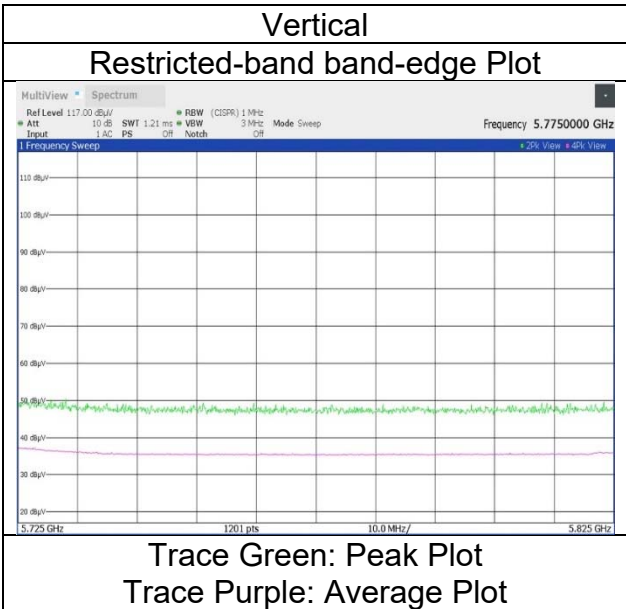
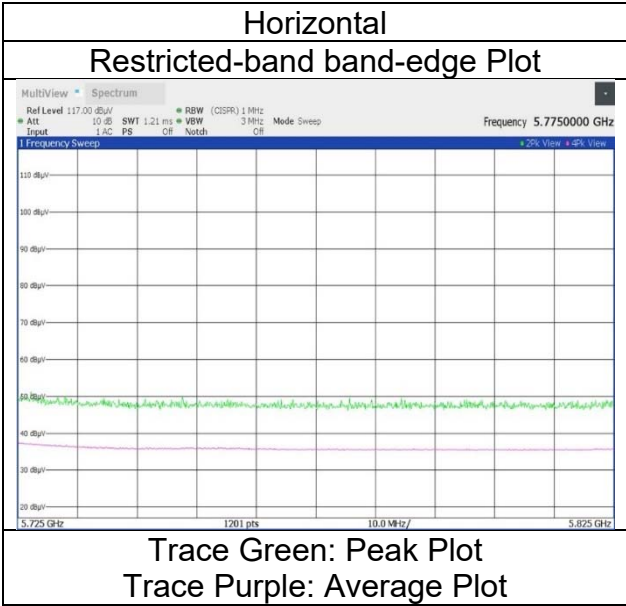
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
23 deg. C / 30 % RH
Miku Ikudome
Tx 11a 5680 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 25, 2025
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Miku Ikudome
Mode (1 GHz to 6.4 GHz)
Tx 11a 5700 MHz

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	50.91	32.38	16.71	43.37	-	2.46	59.09	-36.14	-27.0	9.1	162	67	-
Vert.	5725.000	PK	51.92	32.38	16.71	43.37	-	2.46	60.10	-35.13	-27.0	8.1	156	65	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

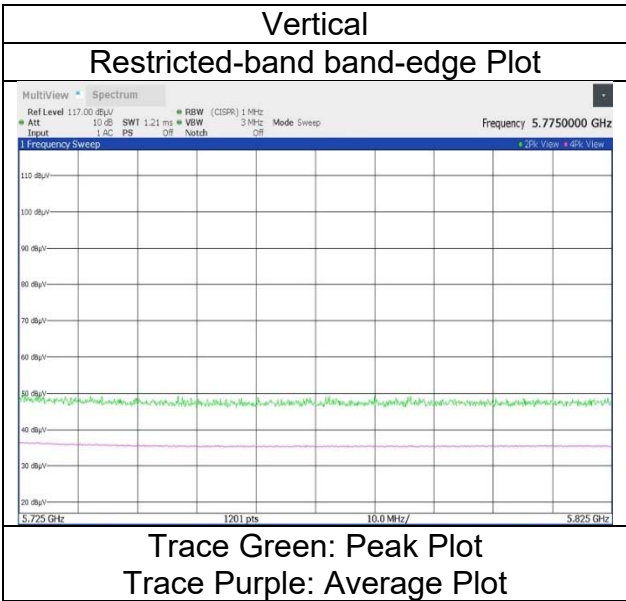
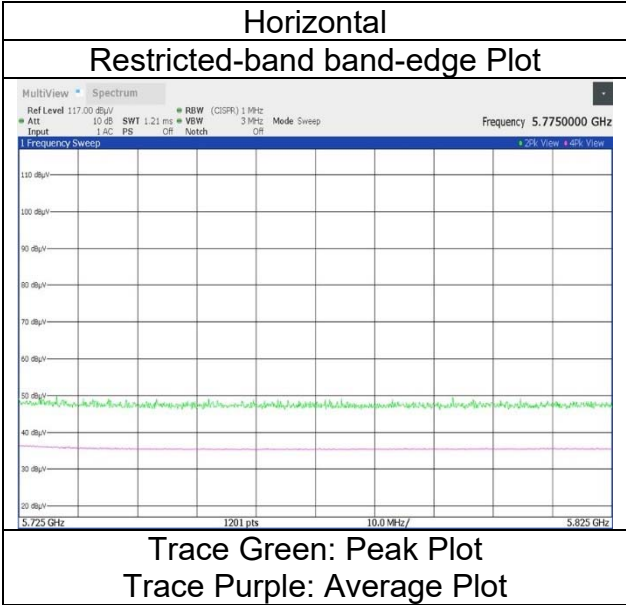
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
23 deg. C / 30 % RH
Miku Ikudome
Tx 11a 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 25, 2025
Temperature / Humidity 21 deg. C / 30 % RH
Engineer Takayuki Kobayashi
(1 GHz to 6.4 GHz)
Mode Tx 11a 5745 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.94	32.13	16.66	43.37	-	2.46	57.82	-37.41	-27.0	10.4	109	357	-
Hori.	5700.000	PK	50.26	32.30	16.70	43.37	-	2.46	58.35	-36.88	10.0	46.8	109	357	-
Hori.	5720.000	PK	51.53	32.36	16.71	43.37	-	2.46	59.69	-35.54	15.6	51.1	109	357	-
Hori.	5725.000	PK	56.08	32.38	16.71	43.37	-	2.46	64.26	-30.97	27.0	57.9	109	357	-
Vert.	5650.000	PK	49.90	32.13	16.66	43.37	-	2.46	57.78	-37.45	-27.0	10.4	168	59	-
Vert.	5700.000	PK	50.09	32.30	16.70	43.37	-	2.46	58.18	-37.05	10.0	47.0	168	59	-
Vert.	5720.000	PK	51.17	32.36	16.71	43.37	-	2.46	59.33	-35.90	15.6	51.5	168	59	-
Vert.	5725.000	PK	55.25	32.38	16.71	43.37	-	2.46	63.43	-31.80	27.0	58.8	168	59	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

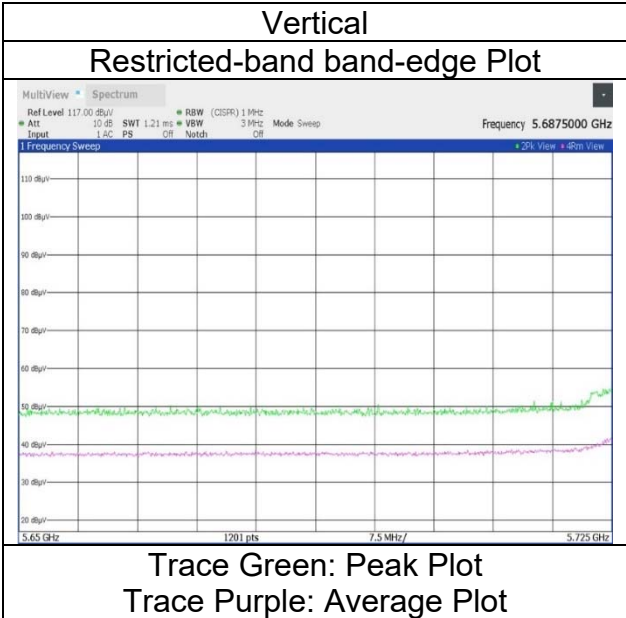
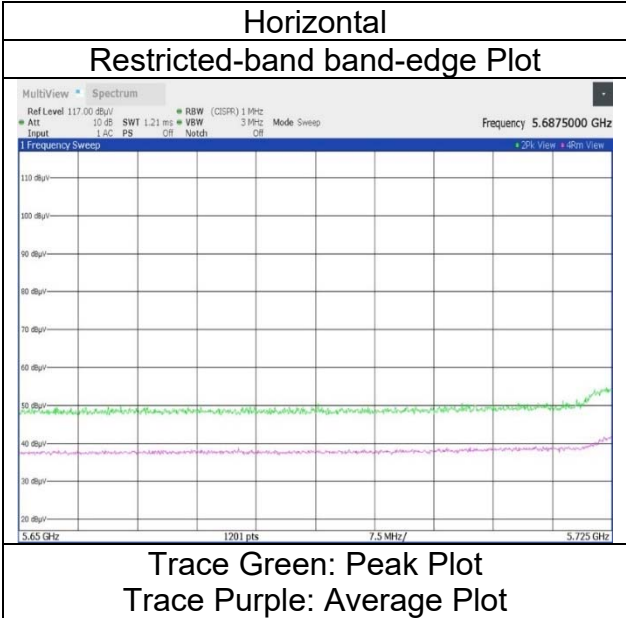
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
21 deg. C / 30 % RH
Takayuki Kobayashi
Tx 11a 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 25, 2025
Temperature / Humidity 21 deg. C / 30 % RH
Engineer Takayuki Kobayashi
(1 GHz to 6.4 GHz)
Mode Tx 11a 5765 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.91	32.13	16.66	43.37	-	2.46	57.79	-37.44	-27.0	10.4	106	336	-
Hori.	5700.000	PK	50.28	32.30	16.70	43.37	-	2.46	58.37	-36.86	10.0	46.8	106	336	-
Hori.	5720.000	PK	55.60	32.36	16.71	43.37	-	2.46	63.76	-31.47	15.6	47.0	106	336	-
Hori.	5725.000	PK	57.91	32.38	16.71	43.37	-	2.46	66.09	-29.14	27.0	56.1	106	336	-
Vert.	5650.000	PK	49.71	32.13	16.66	43.37	-	2.46	57.59	-37.64	-27.0	10.6	132	311	-
Vert.	5700.000	PK	49.87	32.30	16.70	43.37	-	2.46	57.96	-37.27	10.0	47.2	132	311	-
Vert.	5720.000	PK	52.23	32.36	16.71	43.37	-	2.46	60.39	-34.84	15.6	50.4	132	311	-
Vert.	5725.000	PK	55.85	32.38	16.71	43.37	-	2.46	64.03	-31.20	27.0	58.2	132	311	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

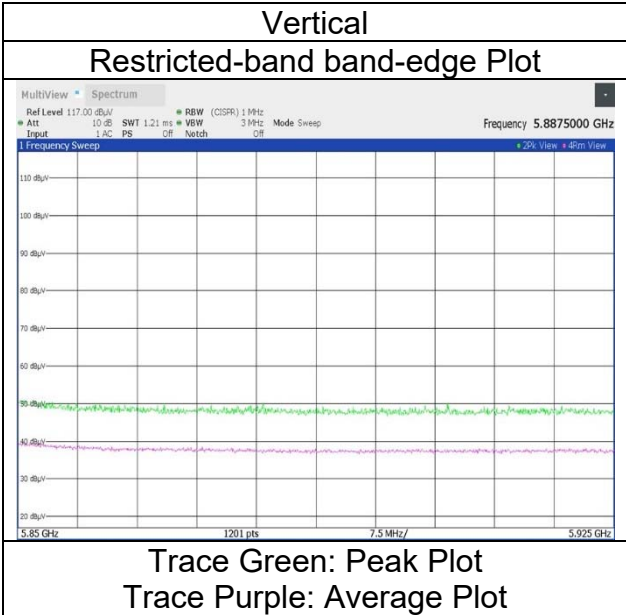
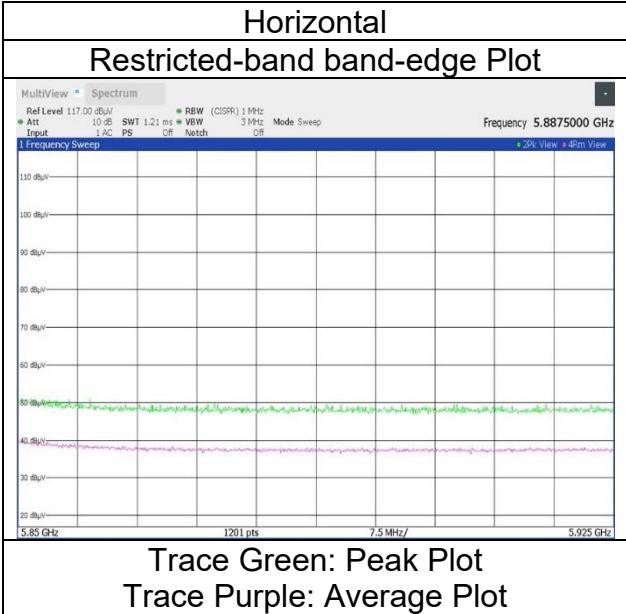
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
21 deg. C / 30 % RH
Takayuki Kobayashi
Tx 11a 5765 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 25, 2025
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Takayuki Kobayashi
	(1 GHz to 6.4 GHz)
Mode	Tx 11a 5805 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	53.21	32.76	16.79	43.37	-	2.46	61.85	-33.38	27.0	60.3	149	57	-
Hori.	5855.000	PK	51.08	32.77	16.79	43.37	-	2.46	59.73	-35.50	15.6	51.1	149	57	-
Hori.	5875.000	PK	49.24	32.81	16.80	43.37	-	2.46	57.94	-37.29	10.0	47.2	149	57	-
Hori.	5925.000	PK	49.98	32.92	16.83	43.36	-	2.46	58.83	-36.40	-27.0	9.4	149	57	-
Vert.	5850.000	PK	52.13	32.76	16.79	43.37	-	2.46	60.77	-34.46	27.0	61.4	138	56	-
Vert.	5855.000	PK	51.30	32.77	16.79	43.37	-	2.46	59.95	-35.28	15.6	50.8	138	56	-
Vert.	5875.000	PK	49.69	32.81	16.80	43.37	-	2.46	58.39	-36.84	10.0	46.8	138	56	-
Vert.	5925.000	PK	49.60	32.92	16.83	43.36	-	2.46	58.45	-36.78	-27.0	9.7	138	56	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

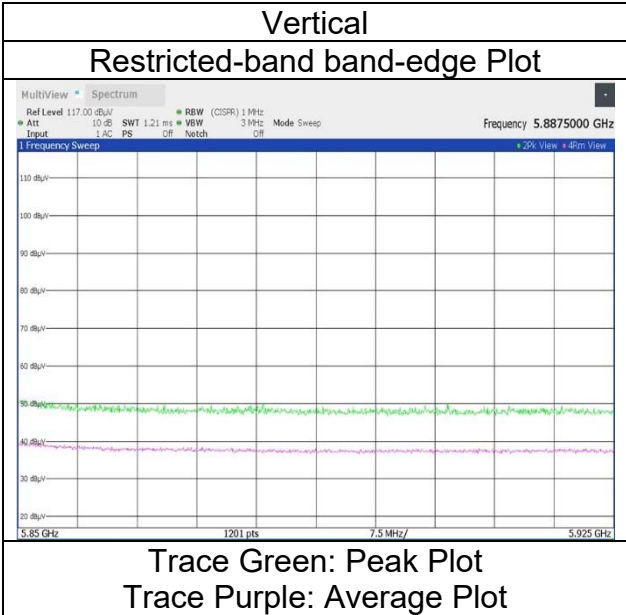
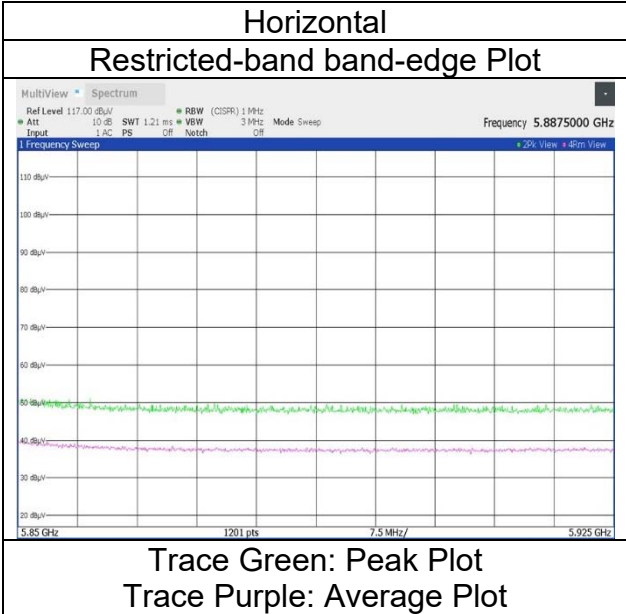
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
21 deg. C / 30 % RH
Takayuki Kobayashi
Tx 11a 5805 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 25, 2025
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Takayuki Kobayashi
	(1 GHz to 6.4 GHz)
Mode	Tx 11a 5825 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	51.04	32.76	16.79	43.37	-	2.46	59.68	-35.55	27.0	62.5	157	53	-
Hori.	5855.000	PK	51.06	32.77	16.79	43.37	-	2.46	59.71	-35.52	15.6	51.1	157	53	-
Hori.	5875.000	PK	49.72	32.81	16.80	43.37	-	2.46	58.42	-36.81	10.0	46.8	157	53	-
Hori.	5925.000	PK	49.65	32.92	16.83	43.36	-	2.46	58.50	-36.73	-27.0	9.7	157	53	-
Vert.	5850.000	PK	51.59	32.76	16.79	43.37	-	2.46	60.23	-35.00	27.0	62.0	132	54	-
Vert.	5855.000	PK	50.47	32.77	16.79	43.37	-	2.46	59.12	-36.11	15.6	51.7	132	54	-
Vert.	5875.000	PK	49.59	32.81	16.80	43.37	-	2.46	58.29	-36.94	10.0	46.9	132	54	-
Vert.	5925.000	PK	50.24	32.92	16.83	43.36	-	2.46	59.09	-36.14	-27.0	9.1	132	54	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

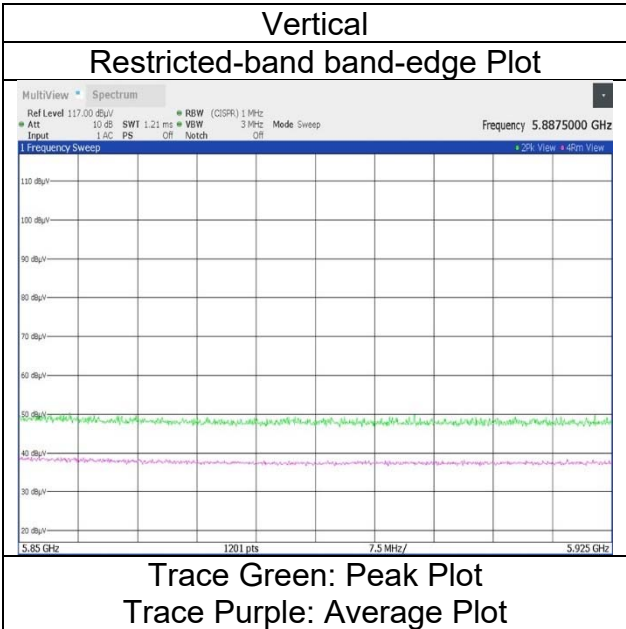
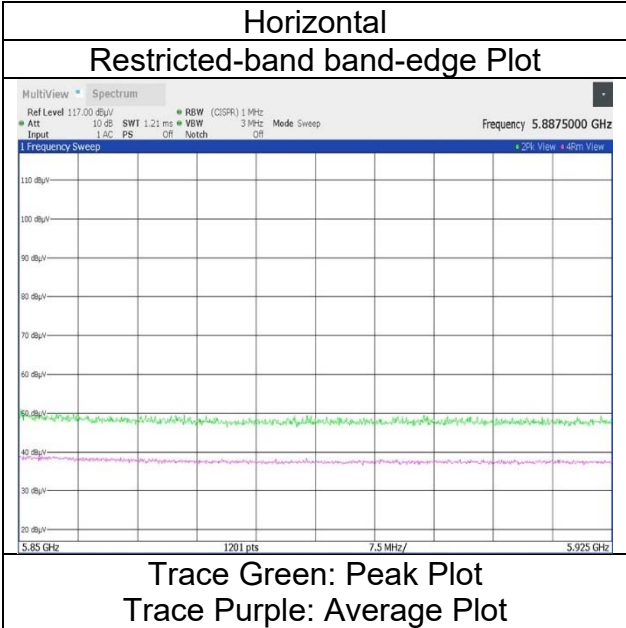
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
21 deg. C / 30 % RH
Takayuki Kobayashi
Tx 11a 5825 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 23, 2025
Temperature / Humidity	23 deg. C / 38 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-20 5180 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5150.000	PK	49.77	31.88	16.37	42.99	2.46	57.49	73.9	16.4	235	197	-
Hori.	5150.000	AV	35.71	31.88	16.37	42.99	2.46	43.43	53.9	10.4	235	197	VBW:300 Hz
Vert.	5150.000	PK	49.68	31.88	16.37	42.99	2.46	57.40	73.9	16.5	152	167	-
Vert.	5150.000	AV	35.82	31.88	16.37	42.99	2.46	43.54	53.9	10.3	152	167	VBW:300 Hz

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

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

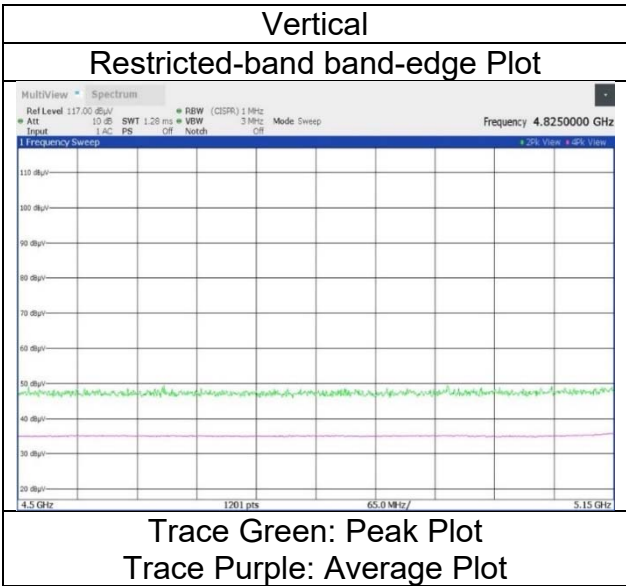
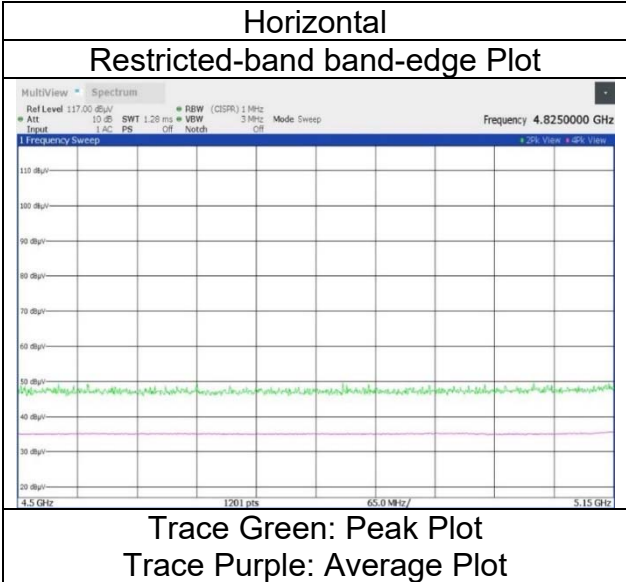
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m] / 3.0[m]) = 2.46 [dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 23, 2025
23 deg. C / 38 % RH
Yohsuke Matsuzawa
Tx 11n-20 5180 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 23, 2025
Temperature / Humidity	23 deg. C / 38 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-20 5200 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.32	31.88	16.37	42.99	2.46	58.04	73.9	15.8	335	23	-
Hori.	5150.000	AV	36.26	31.88	16.37	42.99	2.46	43.98	53.9	9.9	335	23	VBW:300 Hz
Vert.	5150.000	PK	50.73	31.88	16.37	42.99	2.46	58.45	73.9	15.4	133	167	-
Vert.	5150.000	AV	36.77	31.88	16.37	42.99	2.46	44.49	53.9	9.4	133	167	VBW:300 Hz

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

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

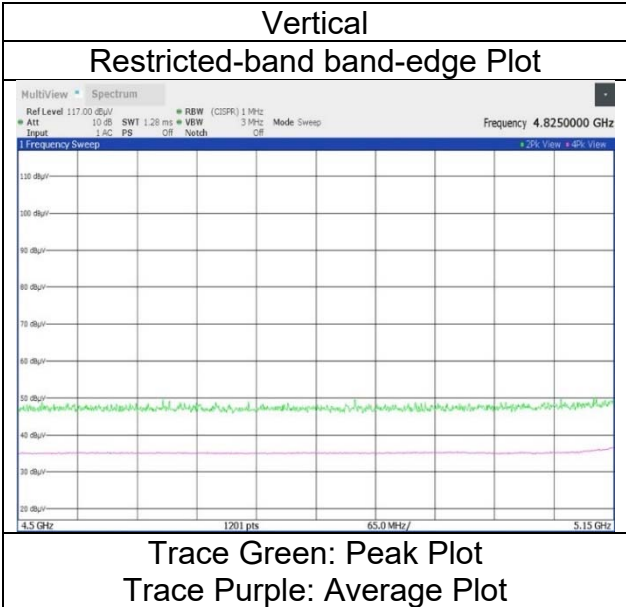
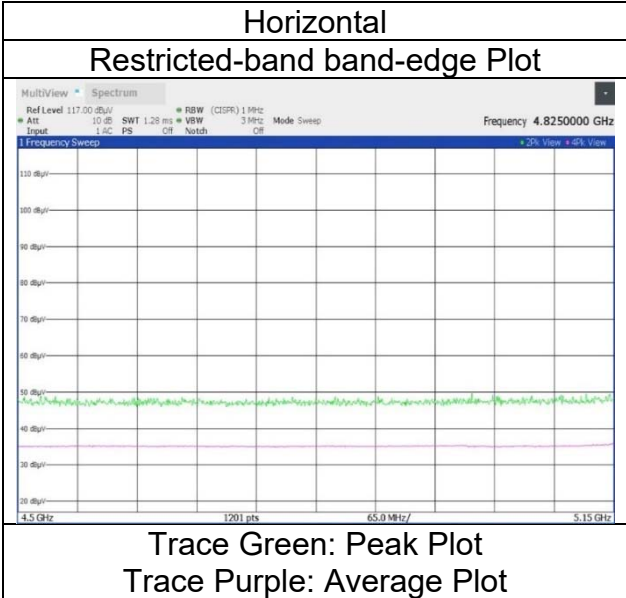
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m] / 3.0[m]) = 2.46 [dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 23, 2025
23 deg. C / 38 % RH
Yohsuke Matsuzawa
Tx 11n-20 5200 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 23, 2025
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11n-20 5300 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5350.000	PK	50.75	31.60	16.49	43.21	2.46	58.09	73.9	15.8	149	18	-
Hori.	5350.000	AV	36.65	31.60	16.49	43.21	2.46	43.99	53.9	9.9	149	18	VBW:300 Hz
Vert.	5350.000	PK	50.66	31.60	16.49	43.21	2.46	58.00	73.9	15.9	132	166	-
Vert.	5350.000	AV	36.37	31.60	16.49	43.21	2.46	43.71	53.9	10.1	132	166	VBW:300 Hz

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

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

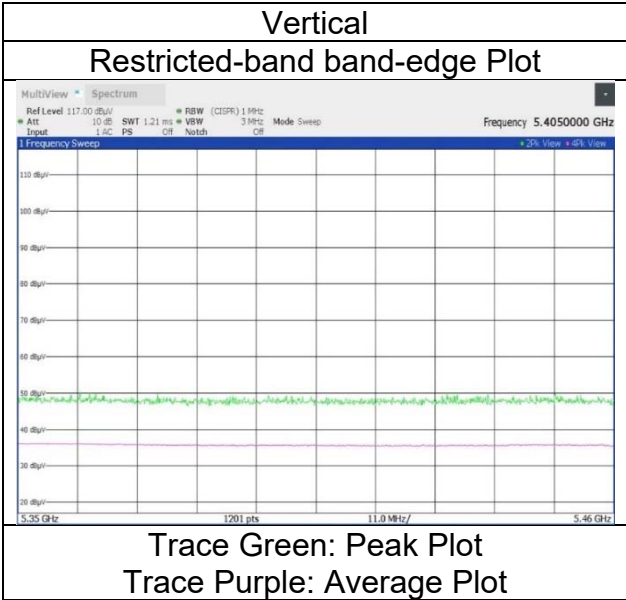
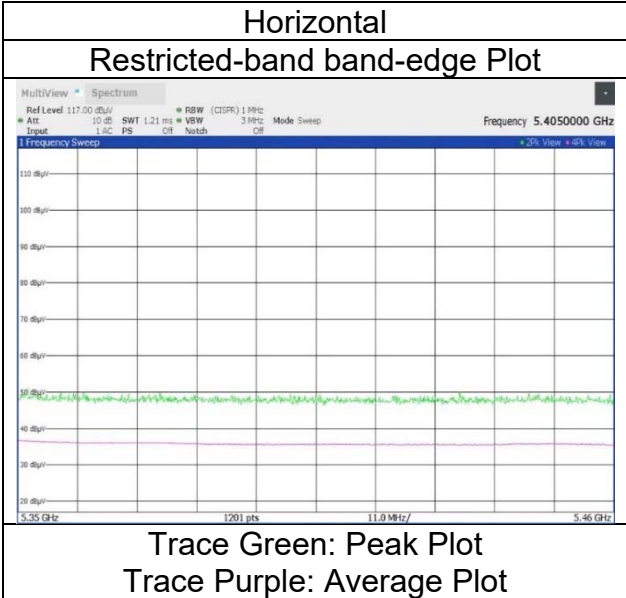
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 23, 2025
23 deg. C / 38 % RH
Yohsuke Matsuzawa
Tx 11n-20 5300 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 23, 2025
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11n-20 5320 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.21	31.60	16.49	43.21	2.46	57.55	73.9	16.3	100	81	-
Hori.	5350.000	AV	36.11	31.60	16.49	43.21	2.46	43.45	53.9	10.4	100	81	VBW:300 Hz
Vert.	5350.000	PK	50.00	31.60	16.49	43.21	2.46	57.34	73.9	16.5	147	165	-
Vert.	5350.000	AV	36.06	31.60	16.49	43.21	2.46	43.40	53.9	10.5	147	165	VBW:300 Hz

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

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

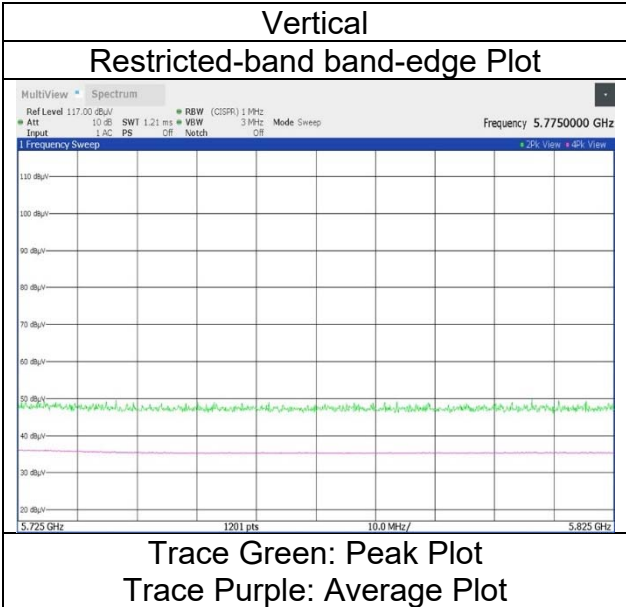
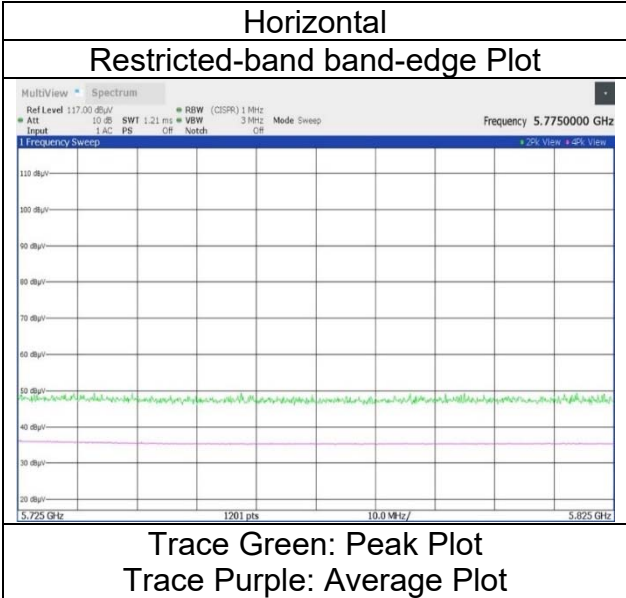
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 23, 2025
23 deg. C / 38 % RH
Yohsuke Matsuzawa
Tx 11n-20 5320 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 25, 2025
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-20 5500 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5460.000	PK	50.14	31.87	16.55	43.34	2.46	57.68	73.9	16.2	163	66	-
Hori.	5460.000	AV	35.79	31.87	16.55	43.34	2.46	43.33	53.9	10.5	163	66	VBW:300 Hz
Vert.	5460.000	PK	50.09	31.87	16.55	43.34	2.46	57.63	73.9	16.2	153	12	-
Vert.	5460.000	AV	35.77	31.87	16.55	43.34	2.46	43.31	53.9	10.5	153	12	VBW:300 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m] / 3.0[m]) = 2.46 [dB]$

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

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (ERP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5470.000	PK	50.36	31.89	16.56	43.35	-	2.46	57.92	-37.31	-27.0	10.3	163	66	-
Vert.	5470.000	PK	50.37	31.89	16.56	43.35	-	2.46	57.93	-37.30	-27.0	10.3	153	12	-

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

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

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

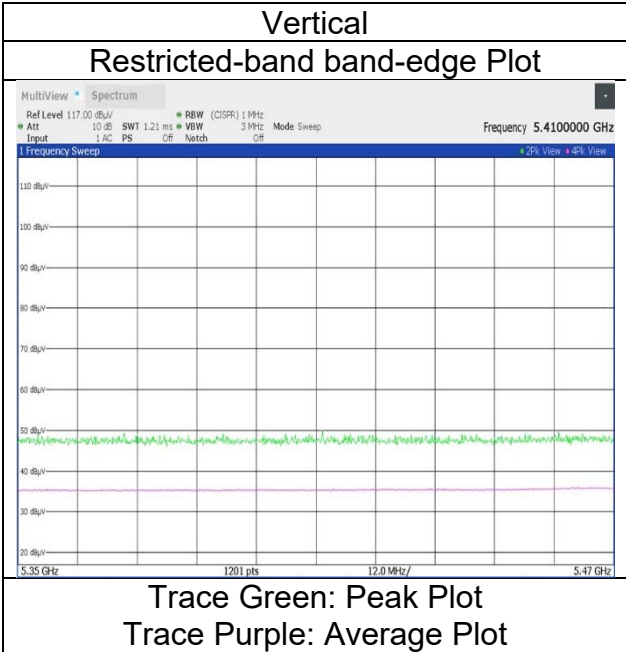
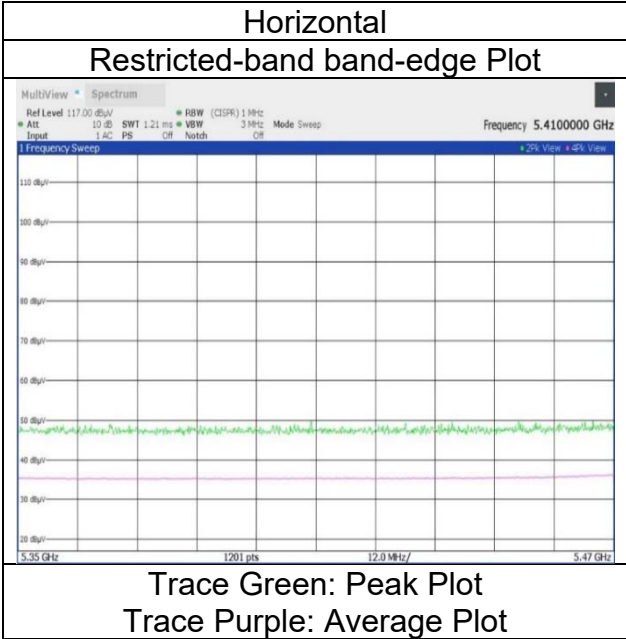
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m] / 3.0[m]) = 2.46 [dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
23 deg. C / 30 % RH
Miku Ikudome
Tx 11n-20 5500 MHz



* 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 WAC 1
Date April 15, 2025
Temperature / Humidity 20 deg. C / 36 % RH
Engineer Yuta Shiba
 (1 GHz to 6.4 GHz)
Mode Tx 11n-20 5520 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.09	32.85	-26.04	-	2.46	58.36	73.9	15.5	169	22	-
Hori.	5460.000	AV	34.16	32.85	-26.04	-	2.46	43.43	53.9	10.4	169	22	VBW : 300 Hz
Vert.	5460.000	PK	48.62	32.85	-26.04	-	2.46	57.89	73.9	16.0	100	356	-
Vert.	5460.000	AV	34.51	32.85	-26.04	-	2.46	43.78	53.9	10.1	100	356	VBW : 300 Hz

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

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

Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.96	32.92	-26.03	-	-	2.46	61.31	-33.92	-27.0	6.9	169	22	-
Vert.	5470.000	PK	51.15	32.92	-26.03	-	-	2.46	60.50	-34.73	-27.0	7.7	100	356	-

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

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

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

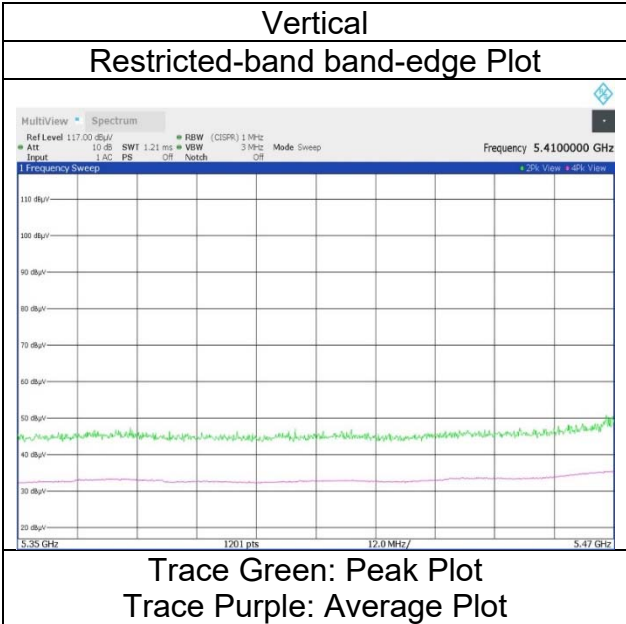
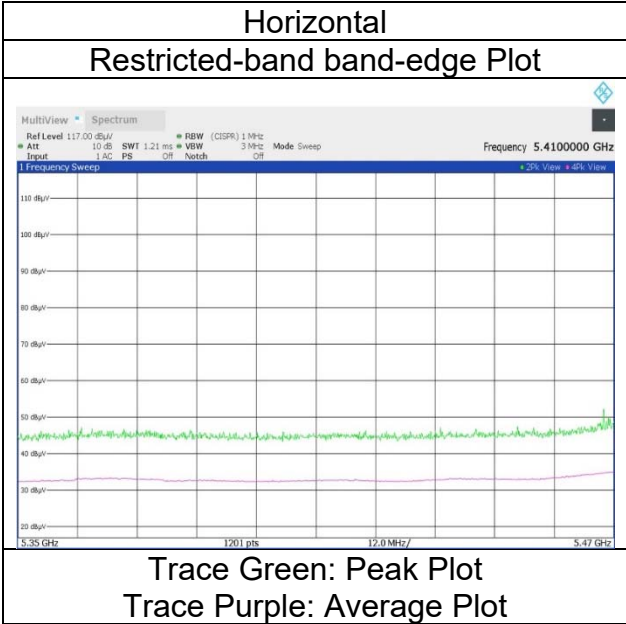
Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC 1
April 15, 2025
20 deg. C / 36 % RH
Yuta Shiba
Tx 11n-20 5520 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 26, 2025
Temperature / Humidity 21 deg. C / 25 % RH
Engineer Takayuki Kobayashi
(1 GHz to 6.4 GHz)
Mode Tx 11n-20 5660 MHz

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

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	50.94	32.38	16.71	43.37	-	2.46	59.12	-36.11	-27.0	9.1	111	19	-
Vert.	5725.000	PK	50.19	32.38	16.71	43.37	-	2.46	58.37	-36.86	-27.0	9.8	148	68	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

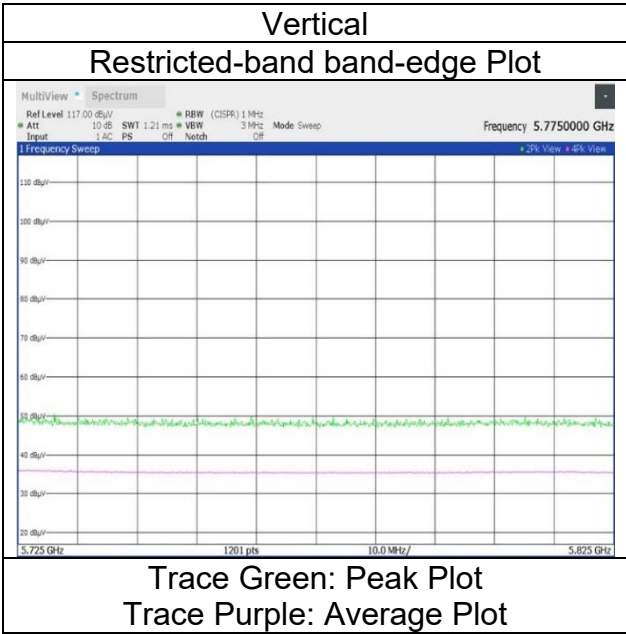
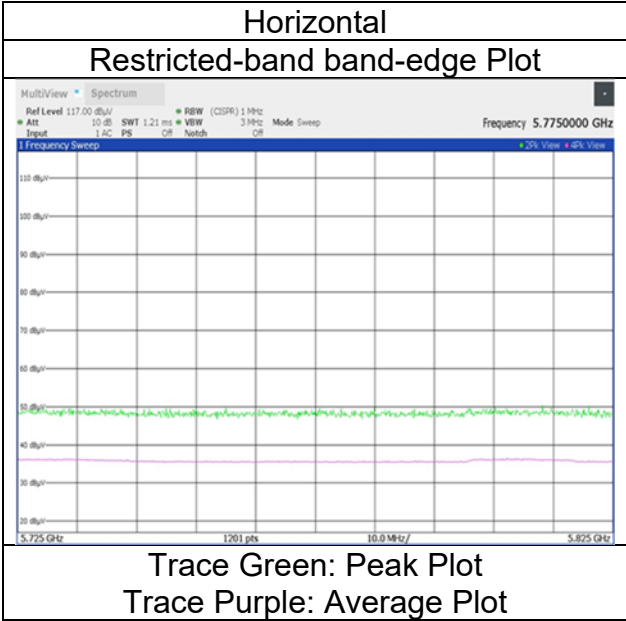
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
21 deg. C / 25 % RH
Takayuki Kobayashi
Tx 11n-20 5660 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 26, 2025
Temperature / Humidity 21 deg. C / 25 % RH
Engineer Takayuki Kobayashi
(1 GHz to 6.4 GHz)
Mode Tx 11n-20 5680 MHz

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

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	52.95	32.38	16.71	43.37	-	2.46	61.13	-34.10	-27.0	7.0	121	24	-
Vert.	5725.000	PK	52.67	32.38	16.71	43.37	-	2.46	60.85	-34.38	-27.0	7.3	180	71	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

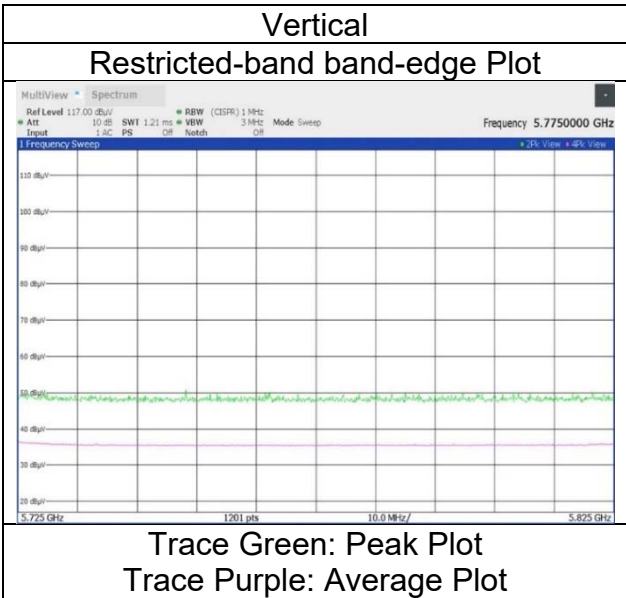
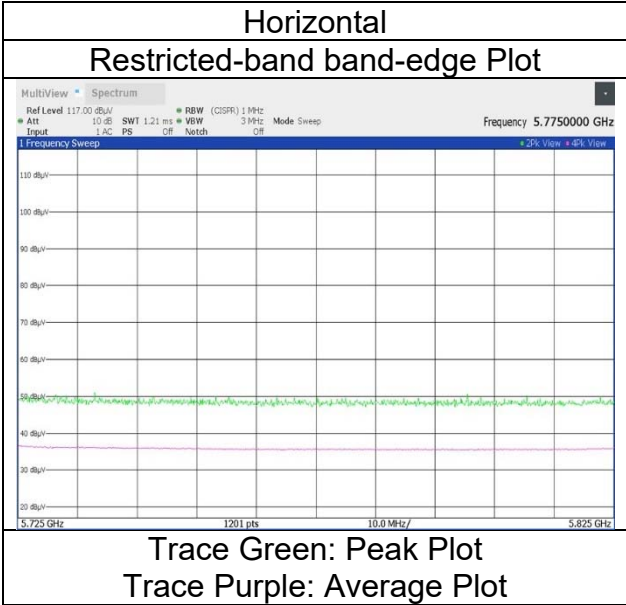
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
21 deg. C / 25 % RH
Takayuki Kobayashi
Tx 11n-20 5680 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 25, 2025
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode Tx 11n-20 5700 MHz

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

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	50.30	32.38	16.71	43.37	-	2.46	58.48	-36.75	-27.0	9.7	101	70	-
Vert.	5725.000	PK	50.36	32.38	16.71	43.37	-	2.46	58.54	-36.69	-27.0	9.6	165	66	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

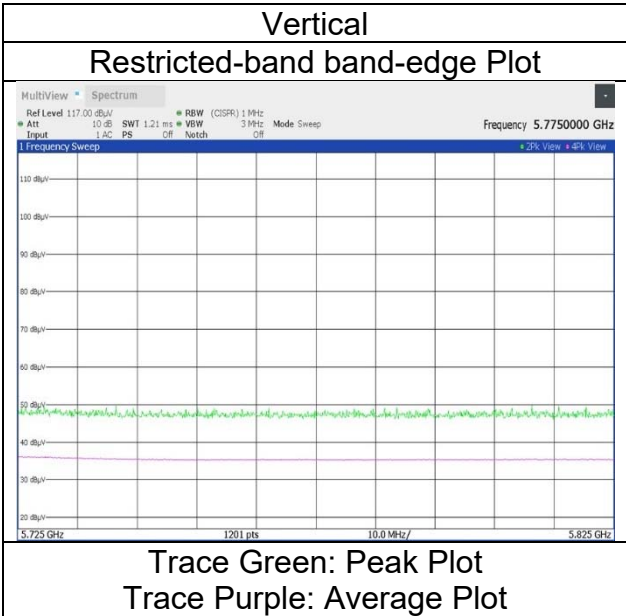
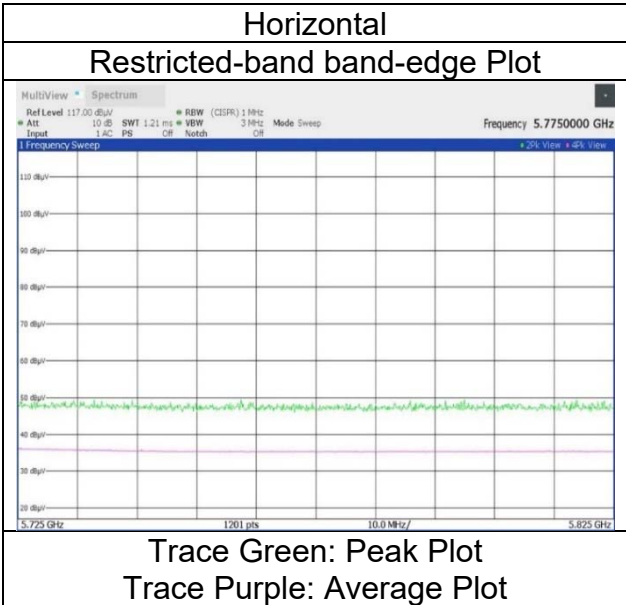
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
23 deg. C / 30 % RH
Miku Ikudome
Tx 11n-20 5700 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 25, 2025
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-20 5745 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.34	32.13	16.66	43.37	-	2.46	57.22	-38.01	-27.0	11.0	146	99	-
Hori.	5700.000	PK	49.45	32.30	16.70	43.37	-	2.46	57.54	-37.69	10.0	47.6	146	99	-
Hori.	5720.000	PK	50.93	32.36	16.71	43.37	-	2.46	59.09	-36.14	15.6	51.7	146	99	-
Hori.	5725.000	PK	56.33	32.38	16.71	43.37	-	2.46	64.51	-30.72	27.0	57.7	146	99	-
Vert.	5650.000	PK	49.35	32.13	16.66	43.37	-	2.46	57.23	-38.00	-27.0	11.0	152	48	-
Vert.	5700.000	PK	49.75	32.30	16.70	43.37	-	2.46	57.84	-37.39	10.0	47.3	152	48	-
Vert.	5720.000	PK	50.37	32.36	16.71	43.37	-	2.46	58.53	-36.70	15.6	52.3	152	48	-
Vert.	5725.000	PK	55.05	32.38	16.71	43.37	-	2.46	63.23	-32.00	27.0	59.0	152	48	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

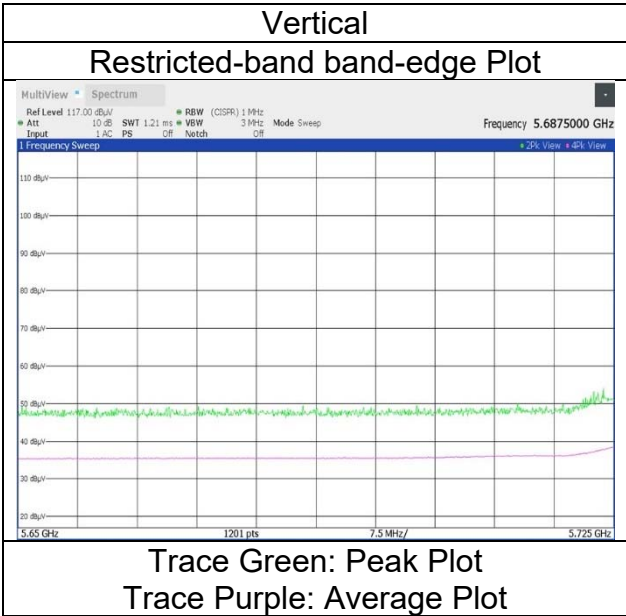
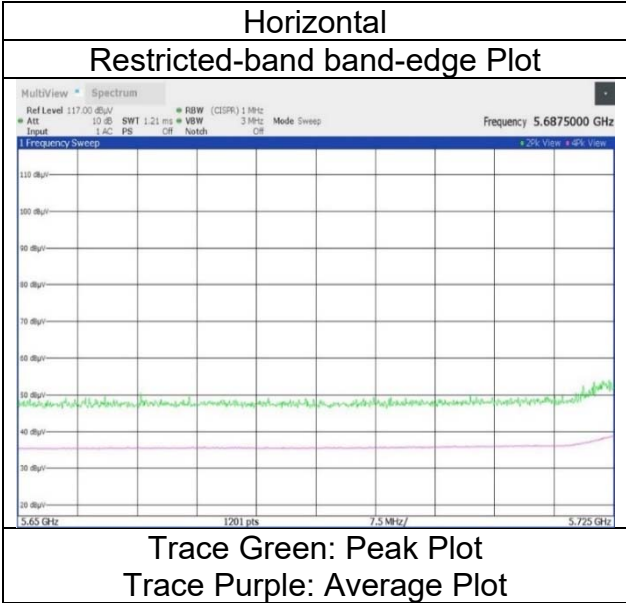
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 25, 2025
23 deg. C / 30 % RH
Miku Ikudome
Tx 11n-20 5745 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 26, 2025
Temperature / Humidity	21 deg. C / 25 % RH
Engineer	Takayuki Kobayashi
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-20 5765 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.81	32.13	16.66	43.37	-	2.46	57.69	-37.54	-27.0	10.5	147	27	-
Hori.	5700.000	PK	50.98	32.30	16.70	43.37	-	2.46	59.07	-36.16	10.0	46.1	147	27	-
Hori.	5720.000	PK	57.53	32.36	16.71	43.37	-	2.46	65.69	-29.54	15.6	45.1	147	27	-
Hori.	5725.000	PK	59.56	32.38	16.71	43.37	-	2.46	67.74	-27.49	27.0	54.4	147	27	-
Vert.	5650.000	PK	50.34	32.13	16.66	43.37	-	2.46	58.22	-37.01	-27.0	10.0	135	310	-
Vert.	5700.000	PK	51.02	32.30	16.70	43.37	-	2.46	59.11	-36.12	10.0	46.1	135	310	-
Vert.	5720.000	PK	55.28	32.36	16.71	43.37	-	2.46	63.44	-31.79	15.6	47.3	135	310	-
Vert.	5725.000	PK	57.76	32.38	16.71	43.37	-	2.46	65.94	-29.29	27.0	56.2	135	310	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

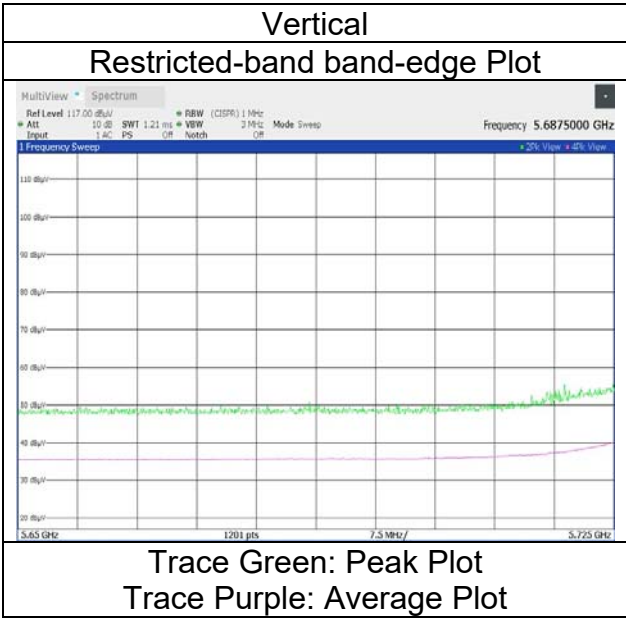
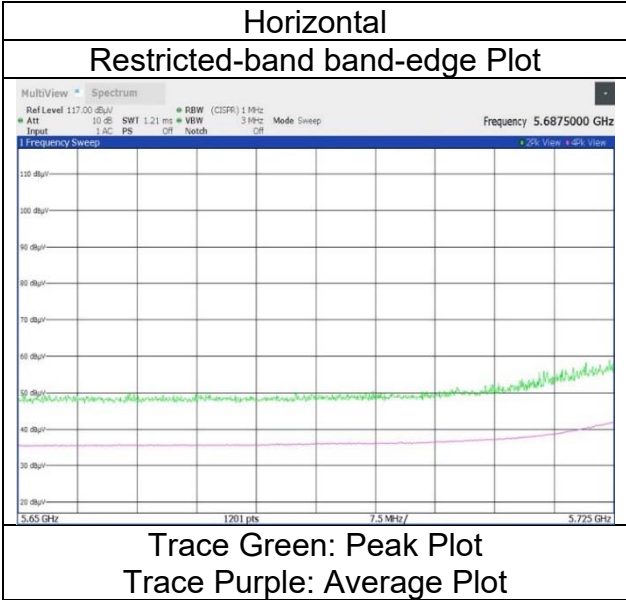
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
21 deg. C / 25 % RH
Takayuki Kobayashi
Tx 11n-20 5765 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 26, 2025
Temperature / Humidity	21 deg. C / 25 % RH
Engineer	Takayuki Kobayashi
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-20 5805 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	59.18	32.76	16.79	43.37	-	2.46	67.82	-27.41	27.0	54.4	162	26	-
Hori.	5855.000	PK	54.19	32.77	16.79	43.37	-	2.46	62.84	-32.39	15.6	47.9	162	26	-
Hori.	5875.000	PK	50.33	32.81	16.80	43.37	-	2.46	59.03	-36.20	10.0	46.2	162	26	-
Hori.	5925.000	PK	50.19	32.92	16.83	43.36	-	2.46	59.04	-36.19	-27.0	9.1	162	26	-
Vert.	5850.000	PK	57.73	32.76	16.79	43.37	-	2.46	66.37	-28.86	27.0	55.8	148	313	-
Vert.	5855.000	PK	52.40	32.77	16.79	43.37	-	2.46	61.05	-34.18	15.6	49.7	148	313	-
Vert.	5875.000	PK	50.36	32.81	16.80	43.37	-	2.46	59.06	-36.17	10.0	46.1	148	313	-
Vert.	5925.000	PK	49.86	32.92	16.83	43.36	-	2.46	58.71	-36.52	-27.0	9.5	148	313	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

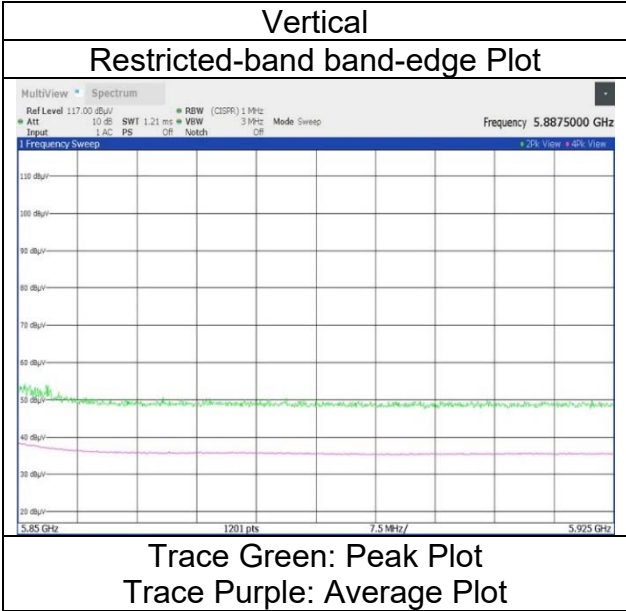
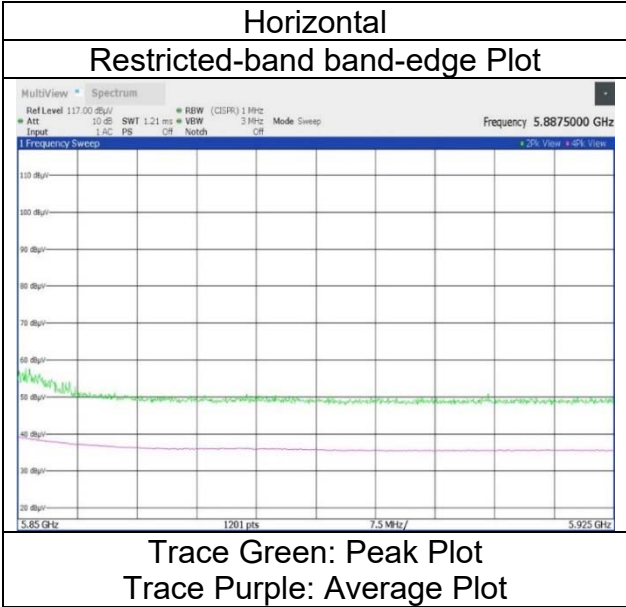
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
21 deg. C / 25 % RH
Takayuki Kobayashi
Tx 11n-20 5805 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 26, 2025
Temperature / Humidity	21 deg. C / 25 % RH
Engineer	Takayuki Kobayashi
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-20 5825 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	53.39	32.76	16.79	43.37	-	2.46	62.03	-33.20	27.0	60.2	137	32	-
Hori.	5855.000	PK	52.62	32.77	16.79	43.37	-	2.46	61.27	-33.96	15.6	49.5	137	32	-
Hori.	5875.000	PK	50.63	32.81	16.80	43.37	-	2.46	59.33	-35.90	10.0	45.9	137	32	-
Hori.	5925.000	PK	49.91	32.92	16.83	43.36	-	2.46	58.76	-36.47	-27.0	9.4	137	32	-
Vert.	5850.000	PK	51.63	32.76	16.79	43.37	-	2.46	60.27	-34.96	27.0	61.9	148	45	-
Vert.	5855.000	PK	51.71	32.77	16.79	43.37	-	2.46	60.36	-34.87	15.6	50.4	148	45	-
Vert.	5875.000	PK	49.91	32.81	16.80	43.37	-	2.46	58.61	-36.62	10.0	46.6	148	45	-
Vert.	5925.000	PK	50.10	32.92	16.83	43.36	-	2.46	58.95	-36.28	-27.0	9.2	148	45	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

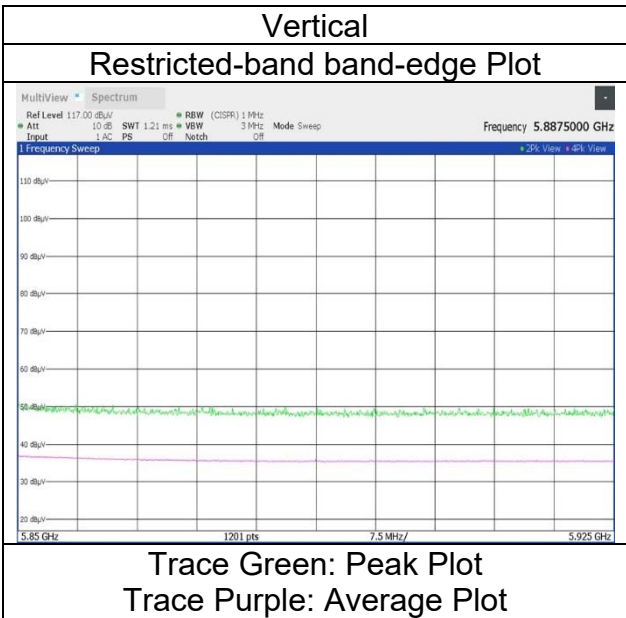
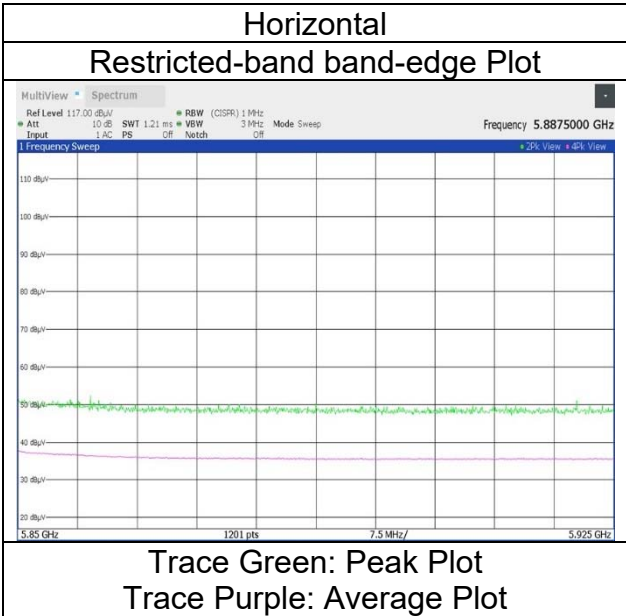
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
21 deg. C / 25 % RH
Takayuki Kobayashi
Tx 11n-20 5825 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	WAC 1	SAC 3	SAC 3
Date	February 21, 2025	February 26, 2025	February 20, 2025	February 18, 2025	December 8, 2024
Temperature / Humidity	22 deg. C / 30 % RH	24deg. C / 24 % RH	22 deg. C / 30 % RH	24 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yasumasa Owaki	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-20 5180 MHz				

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance Fac.	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	5150.000	PK	50.00	31.88	16.37	42.99	2.46	57.72	73.9	16.1	130	74	-	
Hori.	15540.000	PK	47.51	39.64	-30.21	-	-9.54	47.40	73.9	26.5	150	0	-	
Hori.	20720.000	PK	47.44	40.12	14.51	47.00	-9.54	45.53	73.9	28.3	150	223	-	
Hori.	5150.000	AV	36.01	31.88	16.37	42.99	2.46	43.73	53.9	10.1	130	74	VBW:300 Hz	
Hori.	15540.000	AV	32.79	39.64	-30.21	-	-9.54	32.68	53.9	21.2	150	0	VBW:300 Hz	
Hori.	20720.000	AV	42.34	40.12	14.51	47.00	-9.54	40.43	53.9	13.4	150	223	VBW:300 Hz	
Vert.	5150.000	PK	51.43	31.88	16.37	42.99	2.46	59.15	73.9	14.7	100	137	-	
Vert.	15540.000	PK	47.31	39.64	-30.21	-	-9.54	47.20	73.9	26.7	150	0	-	
Vert.	20720.000	PK	48.02	40.12	14.51	47.00	-9.54	46.11	73.9	27.7	135	322	-	
Vert.	5150.000	AV	36.19	31.88	16.37	42.99	2.46	43.91	53.9	9.9	100	137	VBW:300 Hz	
Vert.	15540.000	AV	32.92	39.64	-30.21	-	-9.54	32.81	53.9	21.0	150	0	VBW:300 Hz	
Vert.	20720.000	AV	43.88	40.12	14.51	47.00	-9.54	41.97	53.9	11.9	135	322	VBW:300 Hz	

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)																
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]		
Hori.	10360.000	PK	48.66	36.26	-33.07	-	-	-9.54	42.31	-52.92	-27.0	25.9	131	297	-	
Vert.	10360.000	PK	48.23	36.26	-33.07	-	-	-9.54	41.88	-53.35	-27.0	26.3	155	255	-	

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

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

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

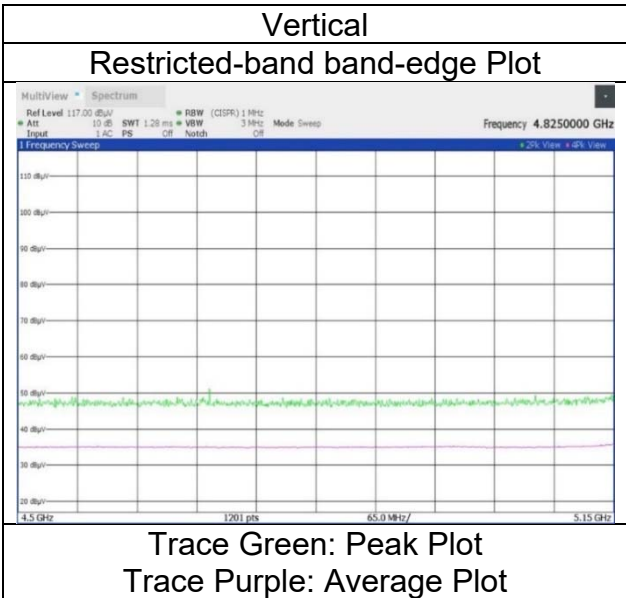
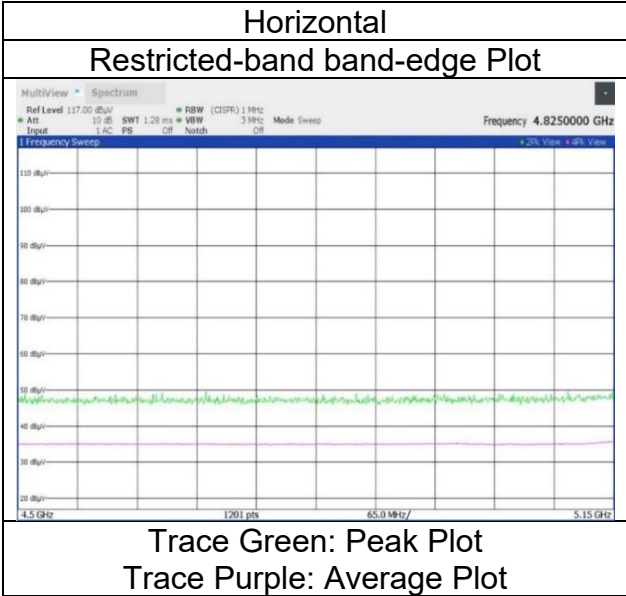
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-20 5180 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5200 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5150.000	PK	54.01	31.88	16.37	42.99	2.46	61.73	73.9	12.1	113	62	-
Hori.	5150.000	AV	37.26	31.88	16.37	42.99	2.46	44.98	53.9	8.9	113	62	VBW:300 Hz
Vert.	5150.000	PK	52.56	31.88	16.37	42.99	2.46	60.28	73.9	13.6	153	142	-
Vert.	5150.000	AV	36.85	31.88	16.37	42.99	2.46	44.57	53.9	9.3	153	142	VBW:300 Hz

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

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

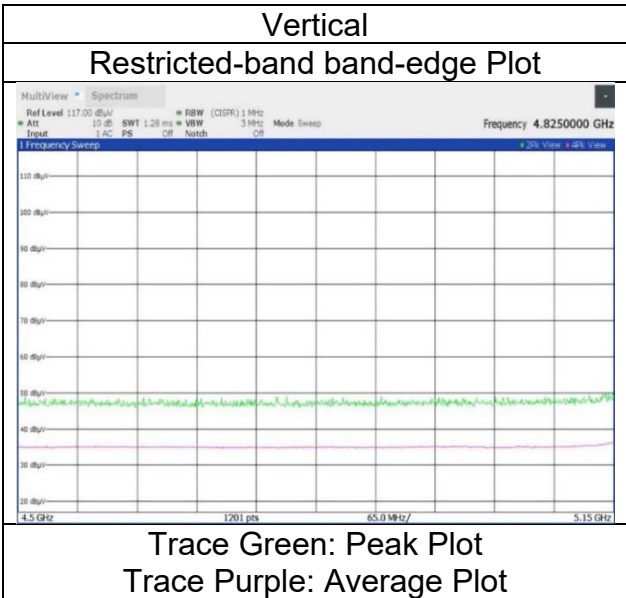
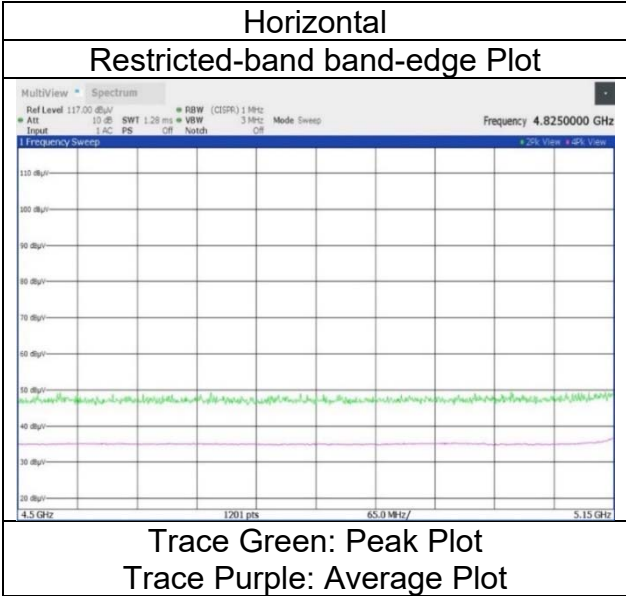
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-20 5200 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3
Date	February 26, 2025	December 16, 2024	December 8, 2024
Temperature / Humidity	24 deg. C / 24 % RH	23 deg. C / 24 % RH	20 deg. C / 30 % RH
Engineer	Miu Ikudome	Takayuki Kobayashi	Yasumasa Owaki
	(1 GHz to 10 GHz)	(10 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-20 5240 MHz		

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15720.000	PK	48.23	39.61	11.56	40.52	-9.54	49.34	73.9	24.5	150	157	-
Hori.	20960.000	PK	47.44	40.05	14.66	47.07	-9.54	45.54	73.9	28.3	130	347	-
Hori.	15720.000	AV	34.45	39.61	11.56	40.52	-9.54	35.56	53.9	18.3	150	157	VBW:300 Hz
Hori.	20960.000	AV	42.49	40.05	14.66	47.07	-9.54	40.59	53.9	13.3	130	347	VBW:300 Hz
Vert.	15720.000	PK	47.69	39.61	11.56	40.52	-9.54	48.80	73.9	25.1	142	325	-
Vert.	20960.000	PK	47.89	40.05	14.66	47.07	-9.54	45.99	73.9	27.9	143	315	-
Vert.	15720.000	AV	32.99	39.61	11.56	40.52	-9.54	34.10	53.9	19.8	142	325	VBW:300 Hz
Vert.	20960.000	AV	42.81	40.05	14.66	47.07	-9.54	40.91	53.9	12.9	143	315	VBW:300 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

10 GHz to 40 GHz : 20log (1.00 [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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	3493.375	PK	48.64	28.52	15.27	42.10	-	2.46	52.79	-42.44	-27.0	15.4	259	122	-
Hori.	10480.000	PK	59.07	36.19	9.35	42.73	-	-9.54	52.34	-42.89	-27.0	15.8	145	287	-
Hori.	26200.000	PK	43.34	40.48	16.57	46.99	-	-9.54	43.86	-51.37	-27.0	24.3	150	0	-
Vert.	3493.375	PK	48.44	28.52	15.27	42.10	-	2.46	52.59	-42.64	-27.0	15.6	121	14	-
Vert.	10480.000	PK	61.28	36.19	9.35	42.73	-	-9.54	54.55	-40.68	-27.0	13.6	142	66	-
Vert.	26200.000	PK	42.84	40.48	16.57	46.99	-	-9.54	43.36	-51.87	-27.0	24.8	150	0	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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 Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5300 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	54.31	31.60	16.49	43.21	2.46	61.65	73.9	12.2	185	82	-
Hori.	5350.000	AV	37.21	31.60	16.49	43.21	2.46	44.55	53.9	9.3	185	82	VBW:300 Hz
Vert.	5350.000	PK	54.14	31.60	16.49	43.21	2.46	61.48	73.9	12.4	132	143	-
Vert.	5350.000	AV	36.81	31.60	16.49	43.21	2.46	44.15	53.9	9.7	132	143	VBW:300 Hz

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

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

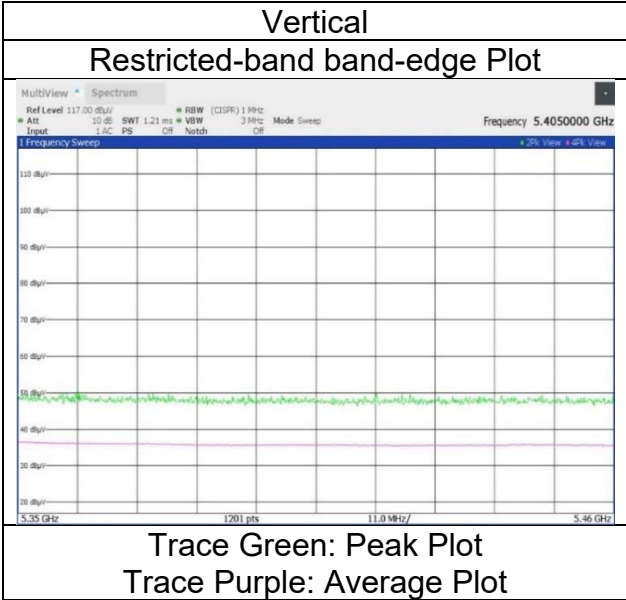
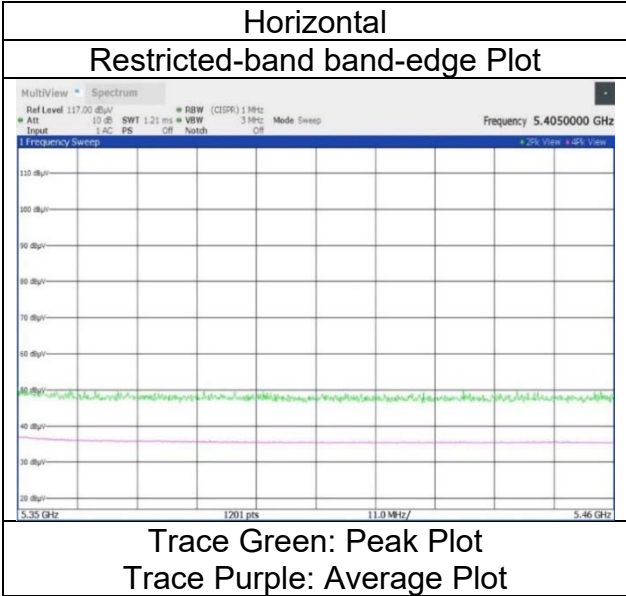
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-20 5300 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	WAC 1	SAC 3	SAC 3
Date	February 21, 2025	February 26, 2025	February 20, 2025	February 18, 2025	December 8, 2024
Temperature / Humidity	22 deg. C / 30 % RH	24deg. C / 24 % RH	22 deg. C / 30 % RH	24 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yasumasa Owaki	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-20 5320 MHz				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5350.000	PK	50.83	31.60	16.49	43.21	2.46	58.17	73.9	15.7	327	192	-
Hori.	10640.000	PK	50.40	37.03	-32.74	-	-9.54	45.15	73.9	28.7	143	292	-
Hori.	15960.000	PK	47.43	40.08	-30.23	-	-9.54	47.74	73.9	26.1	150	0	-
Hori.	21280.000	PK	47.11	40.09	14.77	47.05	-9.54	45.38	73.9	28.5	164	234	-
Hori.	5350.000	AV	36.29	31.60	16.49	43.21	2.46	43.63	53.9	10.2	327	192	VBW:300 Hz
Hori.	10640.000	AV	37.00	37.03	-32.74	-	-9.54	31.75	53.9	22.1	143	292	VBW:300 Hz
Hori.	15960.000	AV	32.65	40.08	-30.23	-	-9.54	32.96	53.9	20.9	150	0	VBW:300 Hz
Hori.	21280.000	AV	41.35	40.09	14.77	47.05	-9.54	39.62	53.9	14.2	164	234	VBW:300 Hz
Vert.	5350.000	PK	51.35	31.60	16.49	43.21	2.46	58.69	73.9	15.2	100	143	-
Vert.	10640.000	PK	51.67	37.03	-32.74	-	-9.54	46.42	73.9	27.4	178	66	-
Vert.	15960.000	PK	47.09	40.08	-30.23	-	-9.54	47.40	73.9	26.5	150	0	-
Vert.	21280.000	PK	48.21	40.09	14.77	47.05	-9.54	46.48	73.9	27.4	135	321	-
Vert.	5350.000	AV	36.36	31.60	16.49	43.21	2.46	43.70	53.9	10.2	100	143	VBW:300 Hz
Vert.	10640.000	AV	37.91	37.03	-32.74	-	-9.54	32.66	53.9	21.2	178	66	VBW:300 Hz
Vert.	15960.000	AV	32.55	40.08	-30.23	-	-9.54	32.86	53.9	21.0	150	0	VBW:300 Hz
Vert.	21280.000	AV	43.19	40.09	14.77	47.05	-9.54	41.46	53.9	12.4	135	321	VBW:300 Hz

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

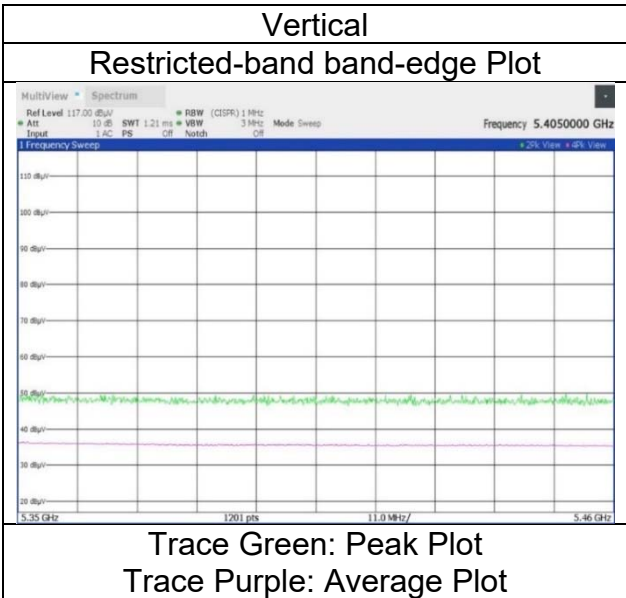
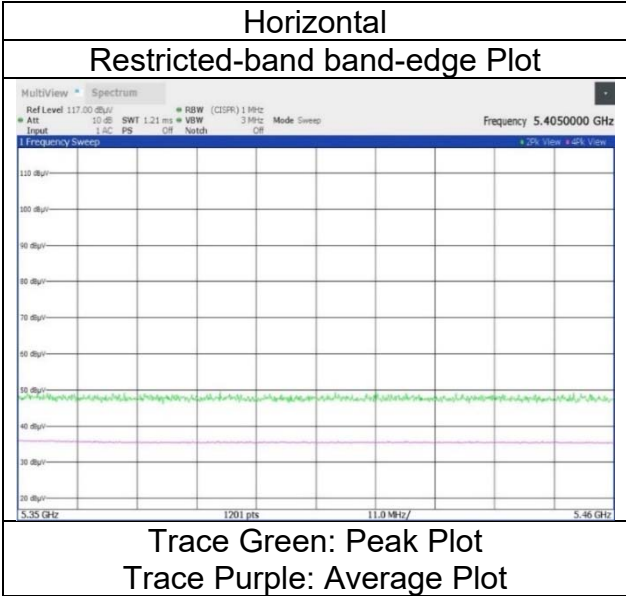
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46$ [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-20 5320 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	WAC 1	SAC 3	SAC 3
Date	February 22, 2025	February 26, 2025	February 20, 2025	February 18, 2025	December 8, 2024
Temperature / Humidity	21 deg. C / 25 % RH	24deg. C / 24 % RH	22 deg. C / 30 % RH	24 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Masahide Ozaki	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-20 5500 MHz				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5460.000	PK	50.52	31.87	16.55	43.34	2.46	58.06	73.9	15.8	324	195	-
Hori.	11000.000	PK	55.82	37.44	-32.44	-	-9.54	51.28	73.9	22.6	138	65	-
Hori.	18333.330	PK	45.79	40.02	13.48	48.17	-9.54	41.58	73.9	32.3	143	98	-
Hori.	5460.000	AV	36.19	31.87	16.55	43.34	2.46	43.73	53.9	10.1	324	195	VBW:300 Hz
Hori.	11000.000	AV	40.36	37.44	-32.44	-	-9.54	35.82	53.9	18.0	138	65	VBW:300 Hz
Hori.	18333.330	AV	38.45	40.02	13.48	48.17	-9.54	34.24	53.9	19.6	143	98	VBW:300 Hz
Vert.	5460.000	PK	50.47	31.87	16.55	43.34	2.46	58.01	73.9	15.8	100	162	-
Vert.	11000.000	PK	55.44	37.44	-32.44	-	-9.54	50.90	73.9	23.0	262	64	-
Vert.	18333.330	PK	44.79	40.02	13.48	48.17	-9.54	40.58	73.9	33.3	135	301	-
Vert.	5460.000	AV	36.12	31.87	16.55	43.34	2.46	43.66	53.9	10.2	100	162	VBW:300 Hz
Vert.	11000.000	AV	40.41	37.44	-32.44	-	-9.54	35.87	53.9	18.0	262	64	VBW:300 Hz
Vert.	18333.330	AV	33.49	40.02	13.48	48.17	-9.54	29.28	53.9	24.6	135	301	VBW:300 Hz

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[\text{m}]/3.0[\text{m}]) = 2.46[\text{dB}]$

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

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5470.000	PK	50.97	31.89	16.56	43.35	-	2.46	58.53	-36.70	-27.0	9.7	324	195	-
Hori.	16500.000	PK	47.51	39.99	-29.93	-	-	-9.54	48.03	-47.20	-27.0	20.2	150	0	-
Hori.	22000.000	PK	48.66	40.25	15.03	47.32	-	-9.54	47.08	-48.15	-27.0	21.1	151	223	-
Vert.	5470.000	PK	51.26	31.89	16.56	43.35	-	2.46	58.82	-36.41	-27.0	9.4	100	162	-
Vert.	16500.000	PK	48.07	39.99	-29.93	-	-	-9.54	48.59	-46.64	-27.0	19.6	150	0	-
Vert.	22000.000	PK	50.00	40.25	15.03	47.32	-	-9.54	48.42	-46.81	-27.0	19.8	136	322	-

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

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

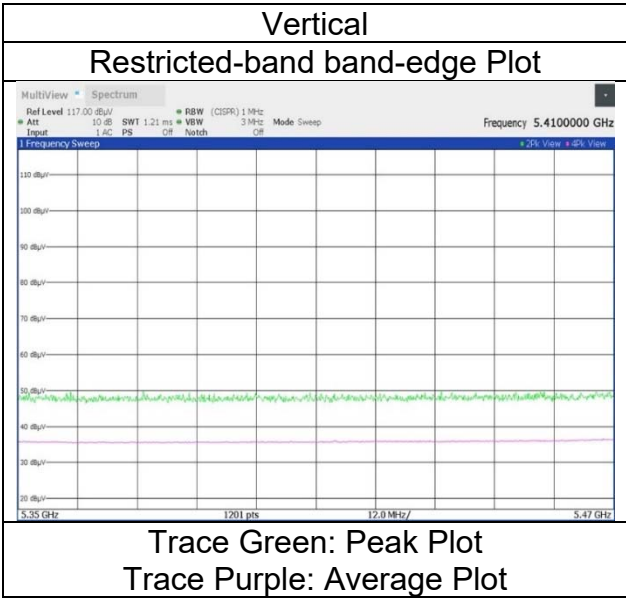
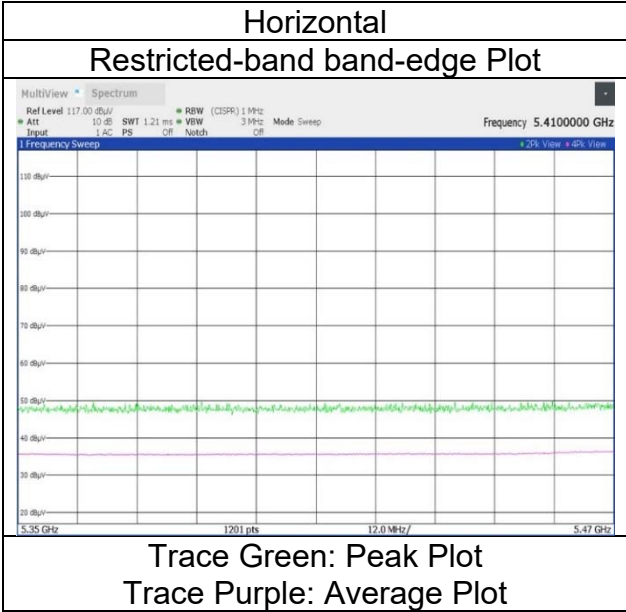
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[\text{m}]/3.0[\text{m}]) = 2.46[\text{dB}]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Masahide Ozaki
Tx 11ac-20 5500 MHz



* 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 WAC 1
Date April 15, 2025
Temperature / Humidity 20 deg. C / 36 % RH
Engineer Yuta Shiba
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5520 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.75	32.85	-26.04	-	2.46	57.02	73.9	16.8	172	22	-
Hori.	5460.000	AV	33.52	32.85	-26.04	-	2.46	42.79	53.9	11.1	172	22	VBW : 300 Hz
Vert.	5460.000	PK	48.73	32.85	-26.04	-	2.46	58.00	73.9	15.9	100	348	-
Vert.	5460.000	AV	34.58	32.85	-26.04	-	2.46	43.85	53.9	10.0	100	348	VBW : 300 Hz

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

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

Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	53.21	32.92	-26.03	-	-	2.46	62.56	-32.67	-27.0	5.6	172	22	-
Vert.	5470.000	PK	54.01	32.92	-26.03	-	-	2.46	63.36	-31.87	-27.0	4.8	100	348	-

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

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

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

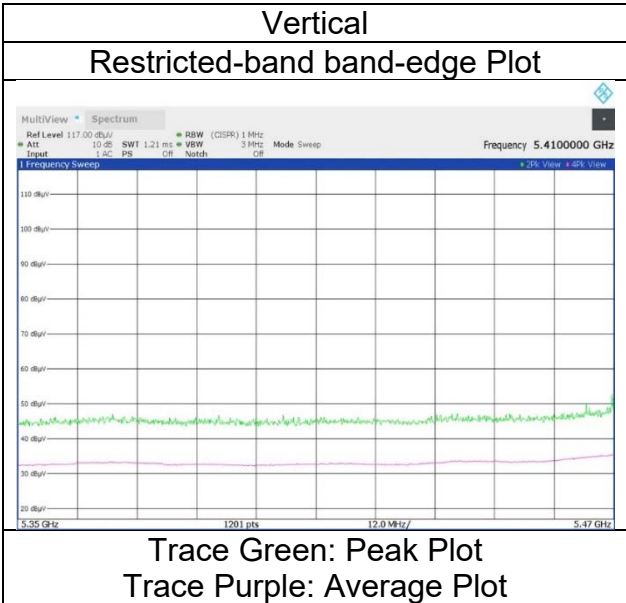
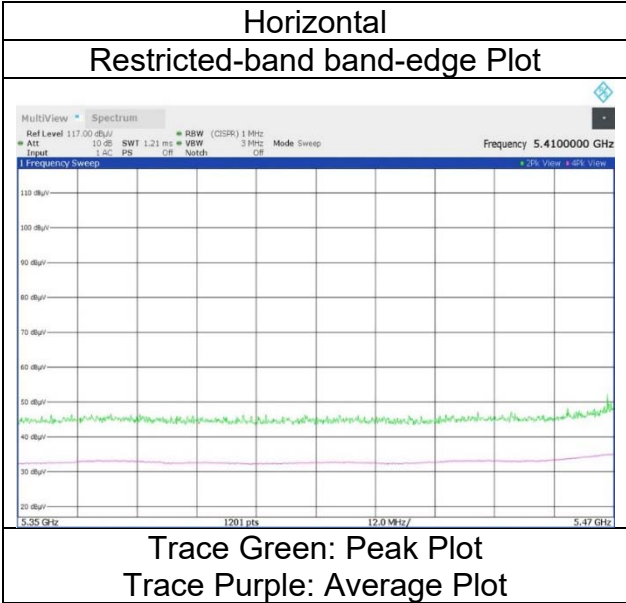
Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC 1
April 15, 2025
20 deg. C / 36 % RH
Yuta Shiba
Tx 11ac-20 5520 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date March 12, 2025
Temperature / Humidity 22 deg. C / 28 % RH
Engineer Yuta Shiba
Mode Tx 11ac-20 5580 MHz

SAC 3
February 26, 2025
24 deg. C / 24 % RH
Miu Ikudome
(1 GHz to 10 GHz)

SAC 3
December 16, 2024
23 deg. C / 24 % RH
Takayuki Kobayashi
(10 GHz to 26.5 GHz)

SAC 3
December 8, 2024
20 deg. C / 30 % RH
Yasumasa Owaki
(26.5 GHz to 40 GHz)

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	66.638	QP	43.00	6.93	6.58	32.17	0.00	24.34	40.0	15.6	291	167	-
Hori.	74.982	QP	44.60	6.27	7.21	32.16	0.00	25.92	40.0	14.0	238	178	-
Hori.	83.277	QP	41.00	6.90	7.60	32.15	0.00	23.35	40.0	16.6	226	181	-
Hori.	87.431	QP	40.40	7.68	7.60	32.15	0.00	23.53	40.0	16.4	204	179	-
Hori.	108.288	QP	40.50	11.56	7.31	32.14	0.00	27.23	43.5	16.2	292	180	-
Hori.	191.984	QP	37.40	16.39	7.94	32.06	0.00	29.67	43.5	13.8	167	37	-
Hori.	215.900	QP	42.30	10.43	8.24	32.03	0.00	28.94	43.5	14.5	148	175	-
Hori.	3720.000	PK	49.97	29.21	15.41	42.17	2.46	54.88	73.9	19.0	257	128	-
Hori.	11160.000	PK	64.00	37.29	9.67	42.70	-9.54	58.72	73.9	15.1	147	294	-
Hori.	22320.000	PK	46.94	40.28	15.12	47.32	-9.54	45.48	73.9	28.4	137	348	-
Hori.	3720.000	AV	35.49	29.21	15.41	42.17	2.46	40.40	53.9	13.5	257	128	VBW:300 Hz
Hori.	11160.000	AV	48.90	37.29	9.67	42.70	-9.54	43.62	53.9	10.2	147	294	VBW:300 Hz
Hori.	22320.000	AV	41.67	40.28	15.12	47.32	-9.54	40.21	53.9	13.6	137	348	VBW:300 Hz
Vert.	66.605	QP	49.50	6.94	6.58	32.17	0.00	30.85	40.0	9.1	100	140	-
Vert.	70.771	QP	44.30	6.48	6.84	32.16	0.00	25.46	40.0	14.5	100	112	-
Vert.	74.944	QP	45.00	6.27	7.21	32.16	0.00	26.32	40.0	13.6	100	87	-
Vert.	3720.000	PK	49.59	29.21	15.41	42.17	2.46	54.50	73.9	19.4	113	5	-
Vert.	11160.000	PK	60.08	37.29	9.67	42.70	-9.54	54.80	73.9	19.1	150	274	-
Vert.	22320.000	PK	47.77	40.28	15.12	47.32	-9.54	46.31	73.9	27.5	140	345	-
Vert.	3720.000	AV	35.76	29.21	15.41	42.17	2.46	40.67	53.9	13.2	113	5	VBW:300 Hz
Vert.	11160.000	AV	44.43	37.29	9.67	42.70	-9.54	39.15	53.9	14.7	150	274	VBW:300 Hz
Vert.	22320.000	AV	42.65	40.28	15.12	47.32	-9.54	41.19	53.9	12.7	140	345	VBW:300 Hz

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

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

Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	Fac. [dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	16740.000	PK	52.89	39.54	12.24	40.40	-	-9.54	54.73	-40.50	-27.0	13.5	149	162	-
Vert.	16740.000	PK	51.31	39.54	12.24	40.40	-	-9.54	53.15	-42.08	-27.0	15.0	145	317	-

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

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

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

Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 26, 2025
Temperature / Humidity 21 deg. C / 25 % RH
Engineer Takayuki Kobayashi
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5660 MHz

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

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	50.63	32.38	16.71	43.37	-	2.46	58.81	-36.42	-27.0	9.4	102	25	-
Vert.	5725.000	PK	50.29	32.38	16.71	43.37	-	2.46	58.47	-36.76	-27.0	9.7	133	315	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

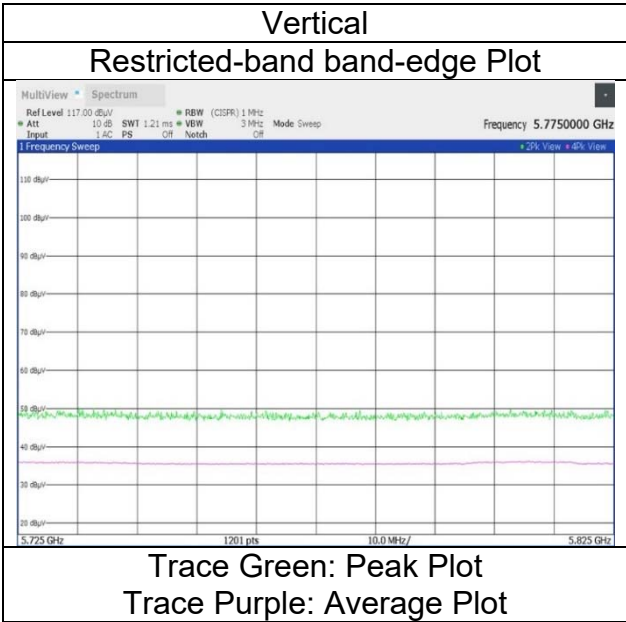
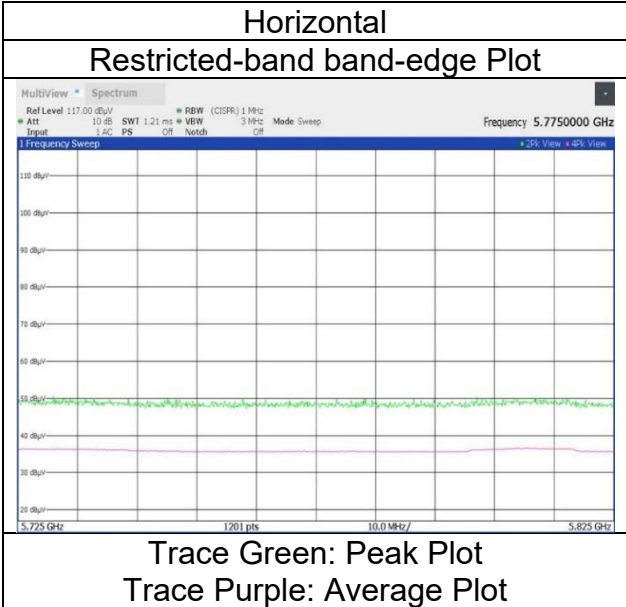
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
21 deg. C / 25 % RH
Takayuki Kobayashi
Tx 11ac-20 5660 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 26, 2025
Temperature / Humidity 21 deg. C / 25 % RH
Engineer Takayuki Kobayashi
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5680 MHz

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

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	55.07	32.38	16.71	43.37	-	2.46	63.25	-31.98	-27.0	4.9	100	19	-
Hori.	5726.124	PK	56.62	32.38	16.71	43.37	-	2.46	64.80	-30.43	-27.0	3.4	100	19	-
Vert.	5725.000	PK	53.39	32.38	16.71	43.37	-	2.46	61.57	-33.66	-27.0	6.6	148	36	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

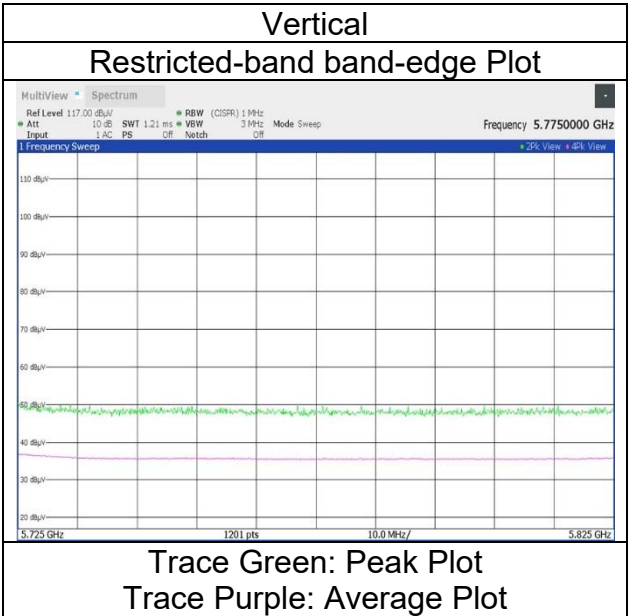
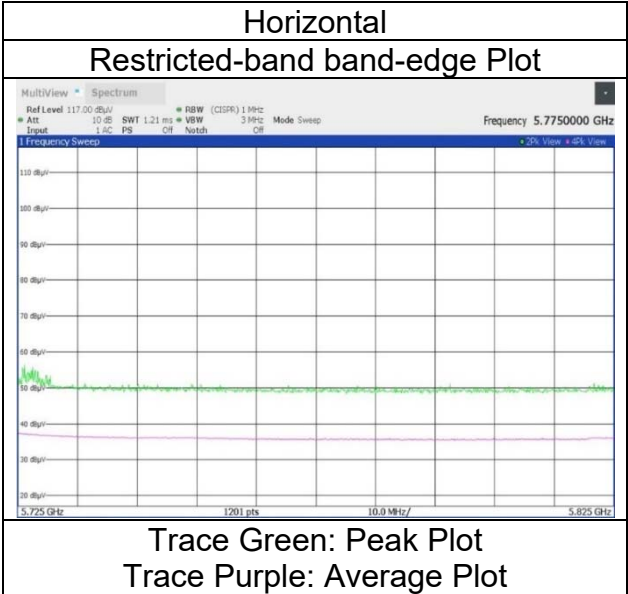
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
21 deg. C / 25 % RH
Takayuki Kobayashi
Tx 11ac-20 5680 MHz



* 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.	WAC 1	SAC 3	SAC 3
Semi Anechoic Chamber	SAC 3	February 20, 2025	February 18, 2025	December 8, 2024
Date	February 26, 2025	22 deg. C / 30 % RH	24 deg. C / 30 % RH	20 deg. C / 30 % RH
Temperature / Humidity	24deg. C / 24 % RH	Yasumasa Owaki	Yasumasa Owaki	Yasumasa Owaki
Engineer	Miku Ikudome	(1 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	(1 GHz to 10 GHz) Tx 11ac-20 5700 MHz			

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	11400.000	PK	54.13	37.96	-31.90	-	-9.54	50.65	73.9	23.2	149	184	-	
Hori.	19000.000	PK	45.72	40.21	13.77	48.09	-9.54	42.07	73.9	31.8	142	99	-	
Hori.	22800.000	PK	46.76	40.20	15.30	47.20	-9.54	45.52	73.9	28.3	151	265	-	
Hori.	11400.000	AV	39.53	37.96	-31.90	-	-9.54	36.05	53.9	17.8	149	184	VBW: 300 Hz	
Hori.	19000.000	AV	38.90	40.21	13.77	48.09	-9.54	35.25	53.9	18.6	142	99	VBW: 300 Hz	
Hori.	22800.000	AV	40.02	40.20	15.30	47.20	-9.54	38.78	53.9	15.1	151	265	VBW: 300 Hz	
Vert.	11400.000	PK	55.14	37.96	-31.90	-	-9.54	51.66	73.9	22.2	173	221	-	
Vert.	19000.000	PK	43.96	40.21	13.77	48.09	-9.54	40.31	73.9	33.5	136	314	-	
Vert.	22800.000	PK	46.07	40.20	15.30	47.20	-9.54	44.83	73.9	29.0	181	129	-	
Vert.	11400.000	AV	39.85	37.96	-31.90	-	-9.54	36.37	53.9	17.5	173	221	VBW: 300 Hz	
Vert.	19000.000	AV	33.25	40.21	13.77	48.09	-9.54	29.60	53.9	24.3	136	314	VBW: 300 Hz	
Vert.	22800.000	AV	38.85	40.20	15.30	47.20	-9.54	37.61	53.9	16.2	181	129	VBW: 300 Hz	

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac.: 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

10 GHz to 40 GHz : 20log (1.00 [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	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	52.86	32.38	16.71	43.37	-	2.46	61.04	-34.19	-27.0	7.1	101	24	-
Hori.	17100.000	PK	48.38	39.90	-28.99	-	-	-9.54	49.75	-45.48	-27.0	18.4	150	0	-
Vert.	5725.000	PK	53.00	32.38	16.71	43.37	-	2.46	61.18	-34.05	-27.0	7.0	173	67	-
Vert.	17100.000	PK	48.16	39.90	-28.99	-	-	-9.54	49.53	-45.70	-27.0	18.7	150	0	-

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

Result (ERP) [dBm] = 10 * LOG ((10 ^ (Result [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).

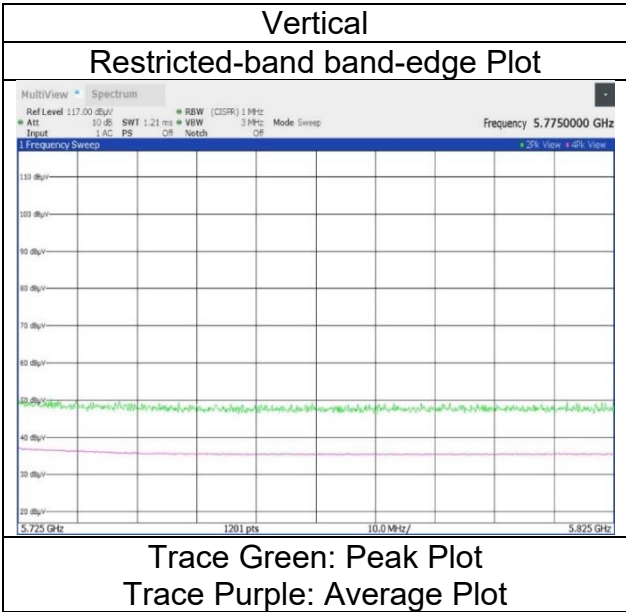
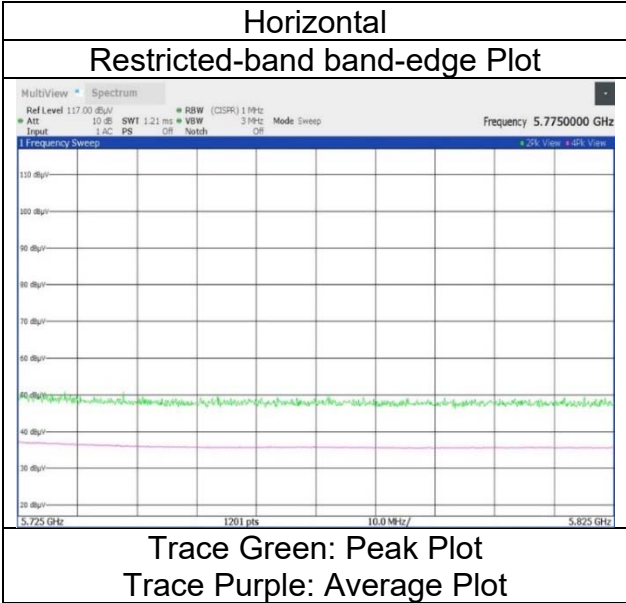
Distance Fac.: 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
24 deg. C / 24 % RH
Miku Ikudome
Tx 11ac-20 5700 MHz



* 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.	WAC 1	SAC 3	SAC 3
Semi Anechoic Chamber	SAC 3	February 20, 2025	February 18, 2025	December 8, 2024
Date	February 26, 2025	22 deg. C / 30 % RH	24 deg. C / 30 % RH	20 deg. C / 30 % RH
Temperature / Humidity	24deg. C / 24 % RH	Yasumasa Owaki	Yasumasa Owaki	Yasumasa Owaki
Engineer	Miku Ikudome	(1 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	(1 GHz to 10 GHz) Tx 11ac-20 5745 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	11490.000	PK	53.92	38.08	-31.77	-	-9.54	50.69	73.9	23.2	152	194	-
Hori.	19150.000	PK	45.67	40.31	13.85	48.02	-9.54	42.27	73.9	31.6	144	98	-
Hori.	22980.000	PK	45.73	40.16	15.39	47.13	-9.54	44.61	73.9	29.2	151	265	-
Hori.	11490.000	AV	38.71	38.08	-31.77	-	-9.54	35.48	53.9	18.4	152	194	VBW: 300 Hz
Hori.	19150.000	AV	38.80	40.31	13.85	48.02	-9.54	35.40	53.9	18.5	144	98	VBW: 300 Hz
Hori.	22980.000	AV	38.56	40.16	15.39	47.13	-9.54	37.44	53.9	16.4	151	265	VBW: 300 Hz
Vert.	11490.000	PK	53.12	38.08	-31.77	-	-9.54	49.89	73.9	24.0	175	217	-
Vert.	19150.000	PK	44.12	40.31	13.85	48.02	-9.54	40.72	73.9	33.1	139	308	-
Vert.	22980.000	PK	44.99	40.16	15.39	47.13	-9.54	43.87	73.9	30.0	149	265	-
Vert.	11490.000	AV	38.59	38.08	-31.77	-	-9.54	35.36	53.9	18.5	175	217	VBW: 300 Hz
Vert.	19150.000	AV	34.57	40.31	13.85	48.02	-9.54	31.17	53.9	22.7	139	308	VBW: 300 Hz
Vert.	22980.000	AV	38.32	40.16	15.39	47.13	-9.54	37.20	53.9	16.7	149	265	VBW: 300 Hz

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5650.000	PK	50.13	32.13	16.66	43.37	-	2.46	58.01	-37.22	-27.0	10.2	101	32	-
Hori.	5700.000	PK	50.47	32.30	16.70	43.37	-	2.46	58.56	-36.67	10.0	46.6	101	32	-
Hori.	5720.000	PK	52.81	32.36	16.71	43.37	-	2.46	60.97	-34.26	15.6	49.8	101	32	-
Hori.	5725.000	PK	59.17	32.38	16.71	43.37	-	2.46	67.35	-27.88	27.0	54.8	101	32	-
Hori.	17235.000	PK	47.33	40.19	-28.98	-	-	-9.54	49.00	-46.23	-27.0	19.2	150	0	-
Vert.	5650.000	PK	49.97	32.13	16.66	43.37	-	2.46	57.85	-37.38	-27.0	10.3	162	67	-
Vert.	5700.000	PK	50.11	32.30	16.70	43.37	-	2.46	58.20	-37.03	10.0	47.0	162	67	-
Vert.	5720.000	PK	52.44	32.36	16.71	43.37	-	2.46	60.60	-34.63	15.6	50.2	162	67	-
Vert.	5725.000	PK	57.39	32.38	16.71	43.37	-	2.46	65.57	-29.66	27.0	56.6	162	67	-
Vert.	17235.000	PK	48.06	40.19	-28.98	-	-	-9.54	49.73	-45.50	-27.0	18.5	150	0	-

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

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

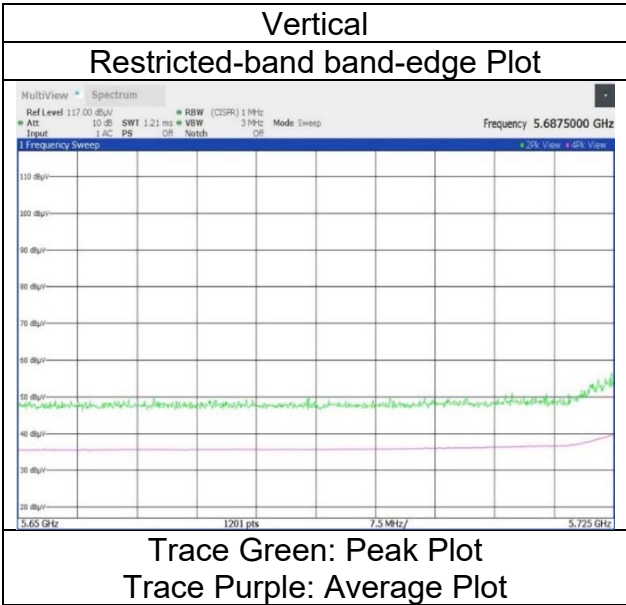
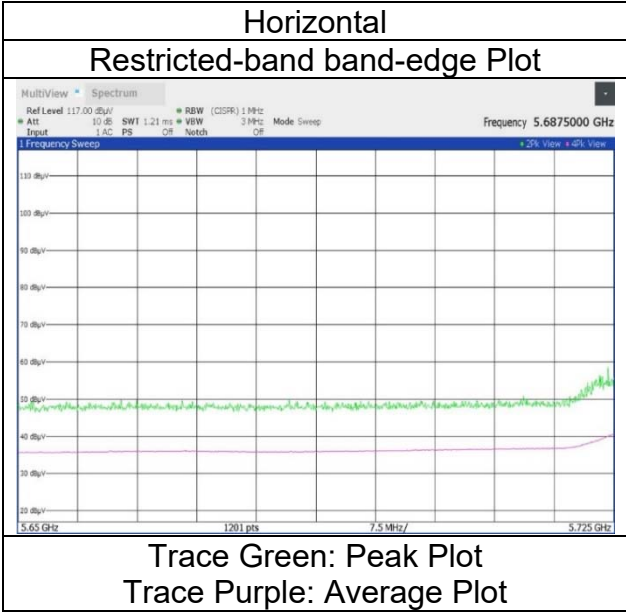
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
24 deg. C / 24 % RH
Miku Ikudome
Tx 11ac-20 5745 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 26, 2025
Temperature / Humidity	24 deg. C / 24 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5765 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.92	32.13	16.66	43.37	-	2.46	57.80	-37.43	-27.0	10.4	152	85	-
Hori.	5700.000	PK	50.42	32.30	16.70	43.37	-	2.46	58.51	-36.72	10.0	46.7	152	85	-
Hori.	5720.000	PK	56.95	32.36	16.71	43.37	-	2.46	65.11	-30.12	15.6	45.7	152	85	-
Hori.	5725.000	PK	59.63	32.38	16.71	43.37	-	2.46	67.81	-27.42	27.0	54.4	152	85	-
Vert.	5650.000	PK	49.84	32.13	16.66	43.37	-	2.46	57.72	-37.51	-27.0	10.5	155	67	-
Vert.	5700.000	PK	50.51	32.30	16.70	43.37	-	2.46	58.60	-36.63	10.0	46.6	155	67	-
Vert.	5720.000	PK	58.75	32.36	16.71	43.37	-	2.46	66.91	-28.32	15.6	43.9	155	67	-
Vert.	5725.000	PK	60.49	32.38	16.71	43.37	-	2.46	68.67	-26.56	27.0	53.5	155	67	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

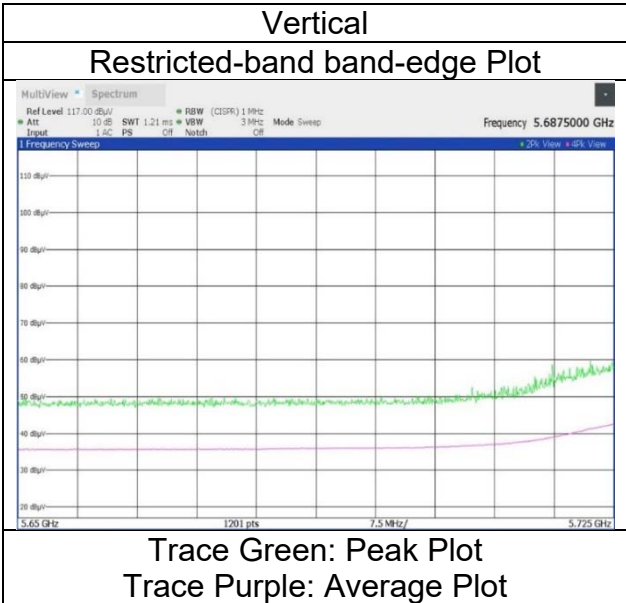
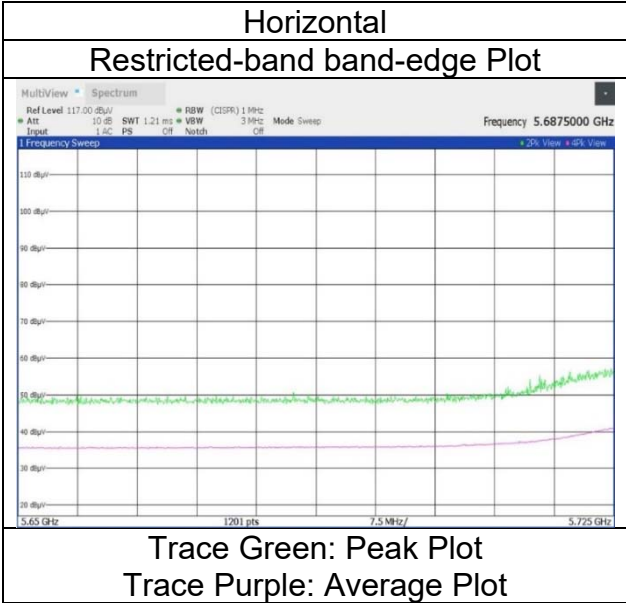
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
24 deg. C / 24 % RH
Miku Ikudome
Tx 11ac-20 5765 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3
Date	February 26, 2025	December 16, 2024	December 8, 2024
Temperature / Humidity	24deg. C / 24 % RH	23 deg. C / 24 % RH	20 deg. C / 30 % RH
Engineer	Miku Ikudome	Takayuki Kobayashi	Yasumasa Owaki
	(1 GHz to 10 GHz)	(10 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-20 5785 MHz		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	3856.666	PK	49.34	29.48	15.52	42.22	2.46	54.58	73.9	19.3	249	135	-	
Hori.	11570.000	PK	61.57	37.91	9.86	42.41	-9.54	57.39	73.9	16.5	144	346	-	
Hori.	3856.666	AV	35.27	29.48	15.52	42.22	2.46	40.51	53.9	13.3	249	135	VBW:300 Hz	
Hori.	11570.000	AV	45.82	37.91	9.86	42.41	-9.54	41.64	53.9	12.2	144	346	VBW:300 Hz	
Vert.	3856.666	PK	48.63	29.48	15.52	42.22	2.46	53.87	73.9	20.0	116	13	-	
Vert.	11570.000	PK	57.66	37.91	9.86	42.41	-9.54	53.48	73.9	20.4	145	323	-	
Vert.	3856.666	AV	35.39	29.48	15.52	42.22	2.46	40.63	53.9	13.2	116	13	VBW:300 Hz	
Vert.	11570.000	AV	41.62	37.91	9.86	42.41	-9.54	37.44	53.9	16.4	145	323	VBW:300 Hz	

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance Fac.: 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]
10 GHz to 40 GHz : 20log (1.00 [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	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]		
Hori.	17355.000	PK	50.92	40.15	12.42	40.10	-	-9.54	53.85	-41.38	-27.0	14.3	138	343	-	
Hori.	23140.000	PK	42.67	40.13	15.44	47.01	-	-9.54	41.69	-53.54	-27.0	26.5	137	348	-	
Vert.	17355.000	PK	50.97	40.15	12.42	40.10	-	-9.54	53.90	-41.33	-27.0	14.3	143	221	-	
Vert.	23140.000	PK	44.95	40.13	15.44	47.01	-	-9.54	43.97	-51.26	-27.0	24.2	141	346	-	

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Duty Fac. + Distance Fac.
Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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 Fac.: 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]
10 GHz to 40 GHz : 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 26, 2025
Temperature / Humidity	24 deg. C / 24 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5805 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	55.54	32.76	16.79	43.37	-	2.46	64.18	-31.05	27.0	58.0	153	88	-
Hori.	5855.000	PK	51.59	32.77	16.79	43.37	-	2.46	60.24	-34.99	15.6	50.5	153	88	-
Hori.	5875.000	PK	50.18	32.81	16.80	43.37	-	2.46	58.88	-36.35	10.0	46.3	153	88	-
Hori.	5925.000	PK	49.68	32.92	16.83	43.36	-	2.46	58.53	-36.70	-27.0	9.7	153	88	-
Vert.	5850.000	PK	54.88	32.76	16.79	43.37	-	2.46	63.52	-31.71	27.0	58.7	144	49	-
Vert.	5855.000	PK	50.97	32.77	16.79	43.37	-	2.46	59.62	-35.61	15.6	51.2	144	49	-
Vert.	5875.000	PK	50.15	32.81	16.80	43.37	-	2.46	58.85	-36.38	10.0	46.3	144	49	-
Vert.	5925.000	PK	49.41	32.92	16.83	43.36	-	2.46	58.26	-36.97	-27.0	9.9	144	49	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

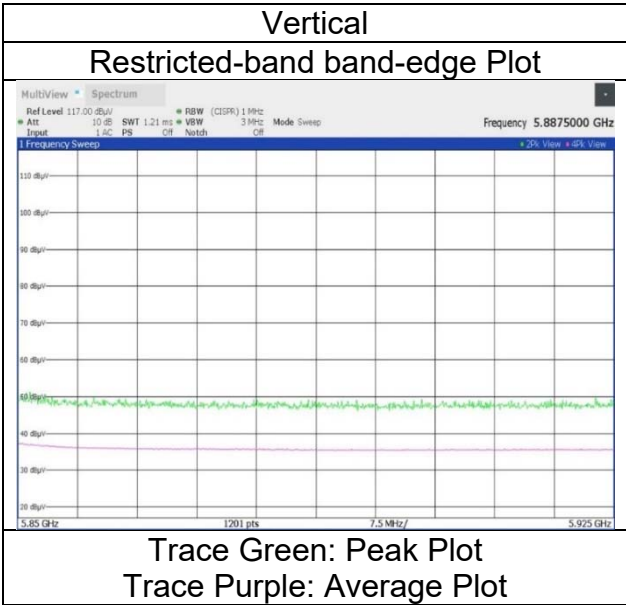
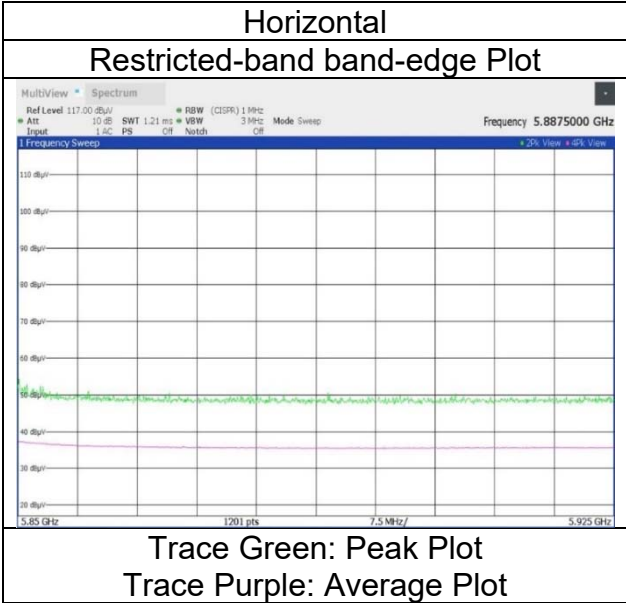
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
24 deg. C / 24 % RH
Miku Ikudome
Tx 11ac-20 5805 MHz



* 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.	WAC 1	SAC 3	SAC 3
Semi Anechoic Chamber	SAC 3	February 20, 2025	February 18, 2025	December 8, 2024
Date	February 26, 2025	22 deg. C / 30 % RH	24 deg. C / 30 % RH	20 deg. C / 30 % RH
Temperature / Humidity	24deg. C / 24 % RH	Yasumasa Owaki	Yasumasa Owaki	Yasumasa Owaki
Engineer	Miku Ikudome	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	(1 GHz to 10 GHz) Tx 11ac-20 5825 MHz			

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	11650.000	PK	53.01	38.25	-31.82	-	-9.54	49.90	73.9	24.0	149	257	-
Hori.	19416.670	PK	46.15	40.32	13.99	47.88	-9.54	43.04	73.9	30.8	142	98	-
Hori.	11650.000	AV	38.38	38.25	-31.82	-	-9.54	35.27	53.9	18.6	149	257	VBW: 300 Hz
Hori.	19416.670	AV	39.48	40.32	13.99	47.88	-9.54	36.37	53.9	17.5	142	98	VBW: 300 Hz
Vert.	11650.000	PK	51.78	38.25	-31.82	-	-9.54	48.67	73.9	25.2	169	219	-
Vert.	19416.670	PK	44.04	40.32	13.99	47.88	-9.54	40.93	73.9	32.9	137	313	-
Vert.	11650.000	AV	37.05	38.25	-31.82	-	-9.54	33.94	53.9	19.9	169	219	VBW: 300 Hz
Vert.	19416.670	AV	33.67	40.32	13.99	47.88	-9.54	30.56	53.9	23.3	137	313	VBW: 300 Hz

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : 20lg (3.98 [m] / 3.0 [m]) = 2.46 [dB]

10 GHz to 40 GHz : 20lg (1.00 [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	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5850.000	PK	51.04	32.76	16.79	43.37	-	2.46	59.68	-35.55	27.0	62.5	151	87	-
Hori.	5855.000	PK	50.21	32.77	16.79	43.37	-	2.46	58.86	-36.37	15.6	51.9	151	87	-
Hori.	5875.000	PK	49.82	32.81	16.80	43.37	-	2.46	58.52	-36.71	10.0	46.7	151	87	-
Hori.	5925.000	PK	49.71	32.92	16.83	43.36	-	2.46	58.56	-36.67	-27.0	9.6	151	87	-
Hori.	17475.000	PK	46.77	40.44	-28.97	-	-	-9.54	48.70	-46.53	-27.0	19.5	150	0	-
Hori.	23300.000	PK	45.63	40.14	15.49	46.89	-	-9.54	44.83	-50.40	-27.0	23.4	152	235	-
Vert.	5850.000	PK	51.05	32.76	16.79	43.37	-	2.46	59.69	-35.54	27.0	62.5	147	48	-
Vert.	5855.000	PK	50.63	32.77	16.79	43.37	-	2.46	59.28	-35.95	15.6	51.5	147	48	-
Vert.	5875.000	PK	49.42	32.81	16.80	43.37	-	2.46	58.12	-37.11	10.0	47.1	147	48	-
Vert.	5925.000	PK	49.94	32.92	16.83	43.36	-	2.46	58.79	-36.44	-27.0	9.4	147	48	-
Vert.	17475.000	PK	47.07	40.44	-28.97	-	-	-9.54	49.00	-46.23	-27.0	19.2	150	0	-
Vert.	23300.000	PK	44.91	40.14	15.49	46.89	-	-9.54	44.11	-51.12	-27.0	24.1	150	264	-

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

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

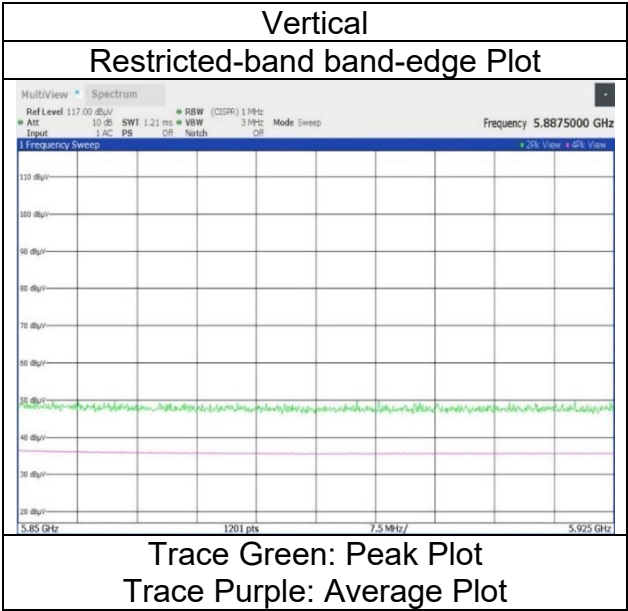
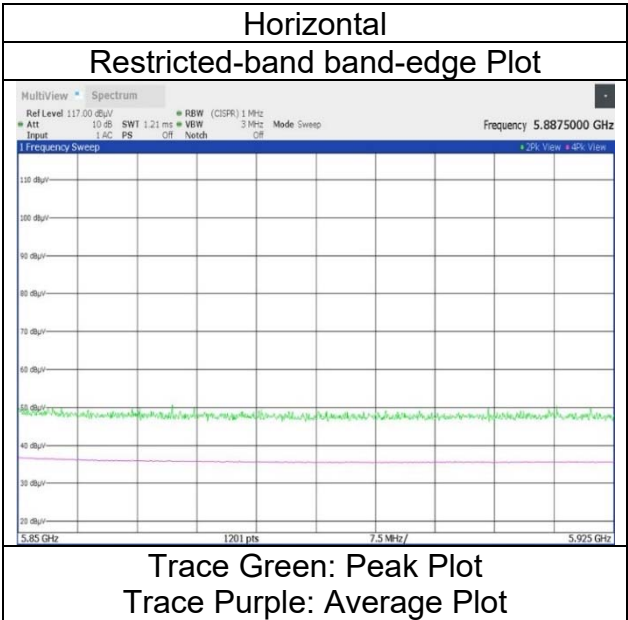
Distance Fac. : 1 GHz to 10 GHz : 20lg (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 26, 2025
24 deg. C / 24 % RH
Miku Ikudome
Tx 11ac-20 5825 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 21, 2025
Temperature / Humidity	22 deg. C / 28 % RH
Engineer	Yosuke Murakami
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-40 5190 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5150.000	PK	50.33	31.88	16.37	42.99	2.46	58.05	73.9	15.8	397	205	-
Hori.	5150.000	AV	36.36	31.88	16.37	42.99	2.46	44.08	53.9	9.8	397	205	VBW:300 Hz
Vert.	5150.000	PK	50.21	31.88	16.37	42.99	2.46	57.93	73.9	15.9	100	159	-
Vert.	5150.000	AV	36.26	31.88	16.37	42.99	2.46	43.98	53.9	9.9	100	159	VBW:300 Hz

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

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

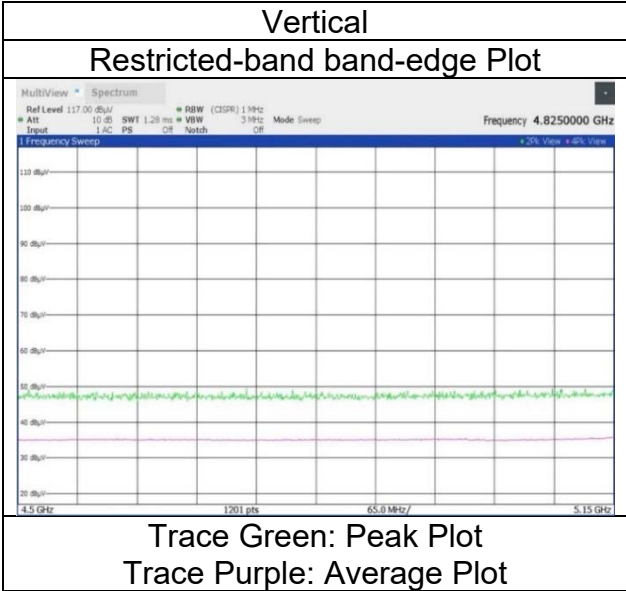
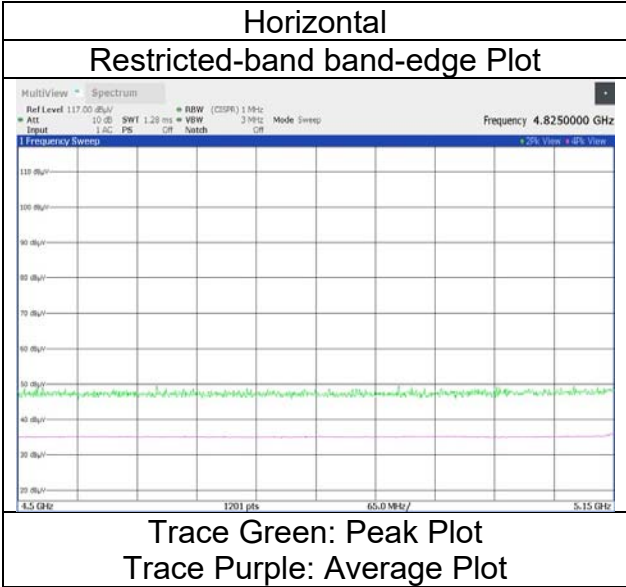
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m] / 3.0[m]) = 2.46 [dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 28 % RH
Yosuke Murakami
Tx 11n-40 5190 MHz



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 28 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5230 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	57.02	31.88	15.87	43.08	2.46	64.15	73.9	9.7	162	38	-
Hori.	5150.000	AV	39.57	31.88	15.87	43.08	2.46	46.70	53.9	7.2	162	38	VBW: 300Hz
Vert.	5150.000	PK	56.15	31.88	15.87	43.08	2.46	63.28	73.9	10.6	161	358	-
Vert.	5150.000	AV	38.91	31.88	15.87	43.08	2.46	46.04	53.9	7.8	161	358	VBW: 300Hz

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

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

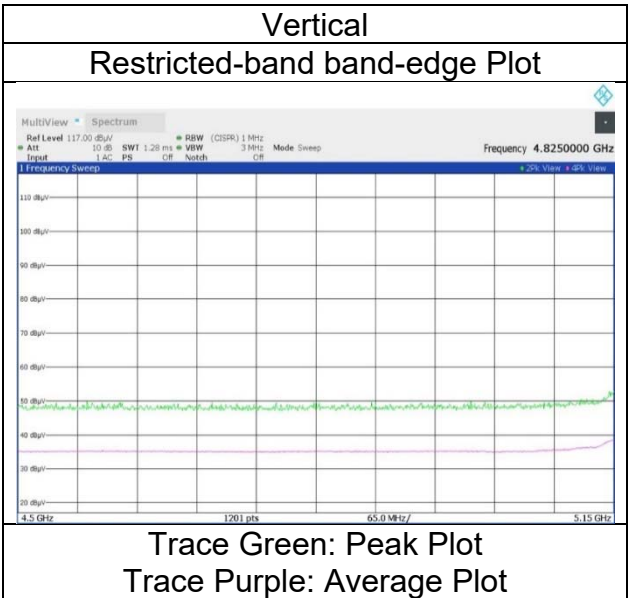
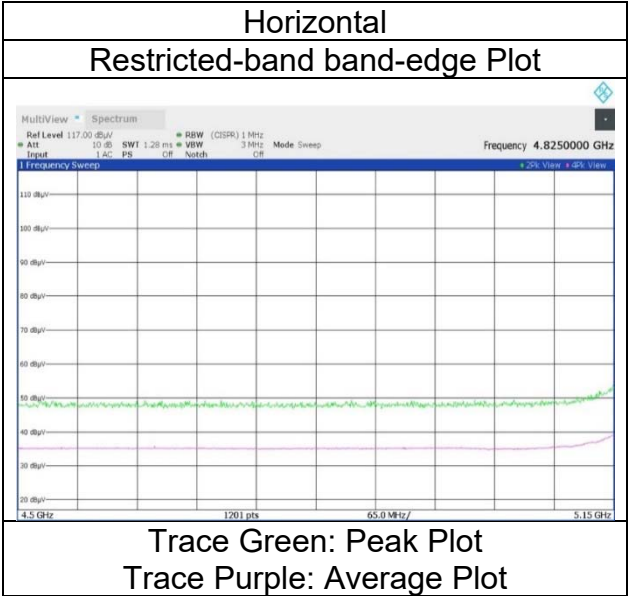
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 28 % RH
Yosuke Murakami
Tx 11n-40 5230 MHz



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
Mode (1 GHz to 6.4 GHz)
Tx 11n-40 5270 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	54.01	31.60	16.49	43.21	2.46	61.35	73.9	12.5	124	80	-
Hori.	5350.000	AV	37.82	31.60	16.49	43.21	2.46	45.16	53.9	8.7	124	80	VBW:300 Hz
Vert.	5350.000	PK	53.89	31.60	16.49	43.21	2.46	61.23	73.9	12.6	138	153	-
Vert.	5350.000	AV	37.81	31.60	16.49	43.21	2.46	45.15	53.9	8.7	138	153	VBW:300 Hz

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

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

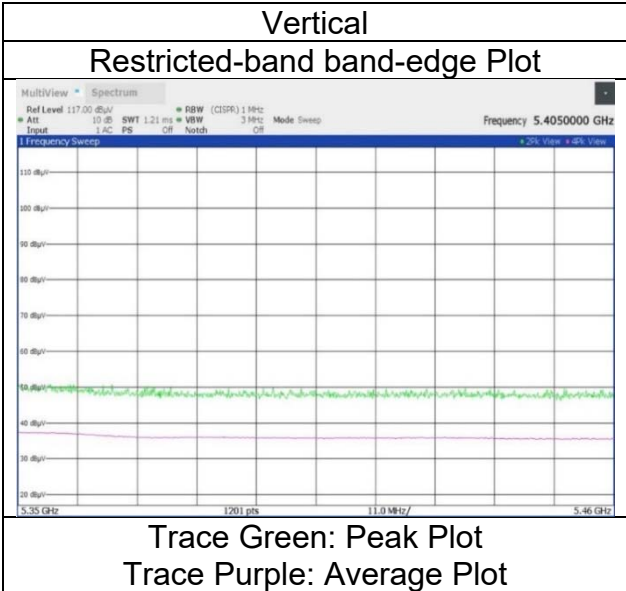
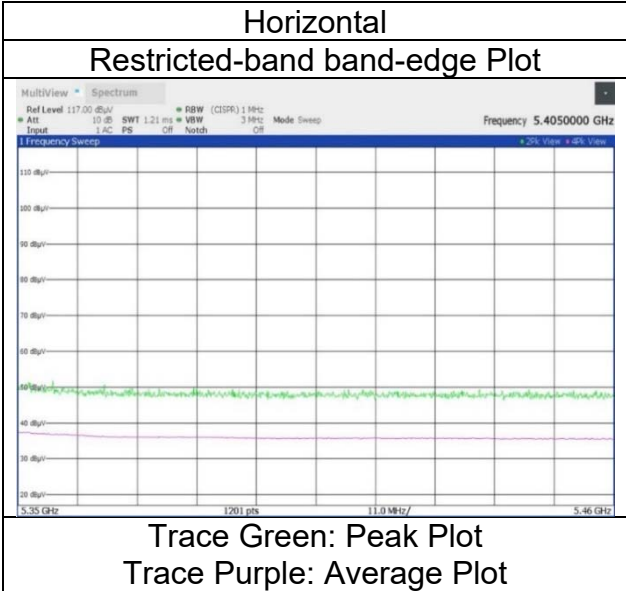
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m] / 3.0[m]) = 2.46 [dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11n-40 5270 MHz



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5310 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5350.000	PK	50.70	31.60	16.49	43.21	2.46	58.04	73.9	15.8	100	78	-
Hori.	5350.000	AV	36.35	31.60	16.49	43.21	2.46	43.69	53.9	10.2	100	78	VBW:300 Hz
Vert.	5350.000	PK	50.71	31.60	16.49	43.21	2.46	58.05	73.9	15.8	132	153	-
Vert.	5350.000	AV	36.08	31.60	16.49	43.21	2.46	43.42	53.9	10.4	132	153	VBW:300 Hz

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

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

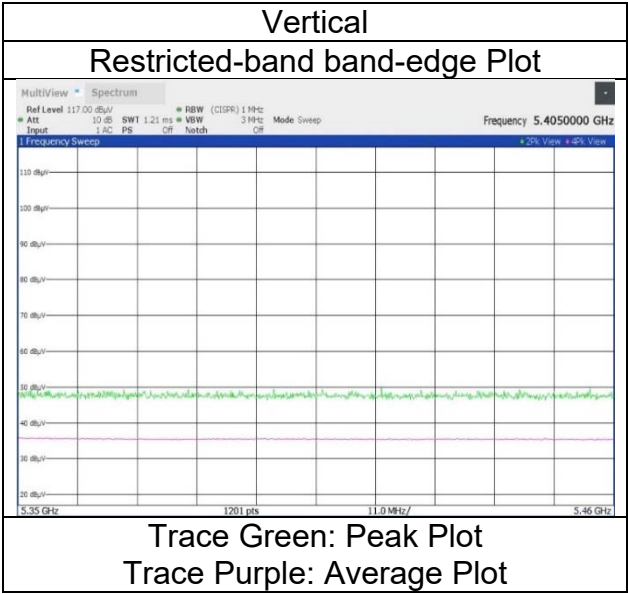
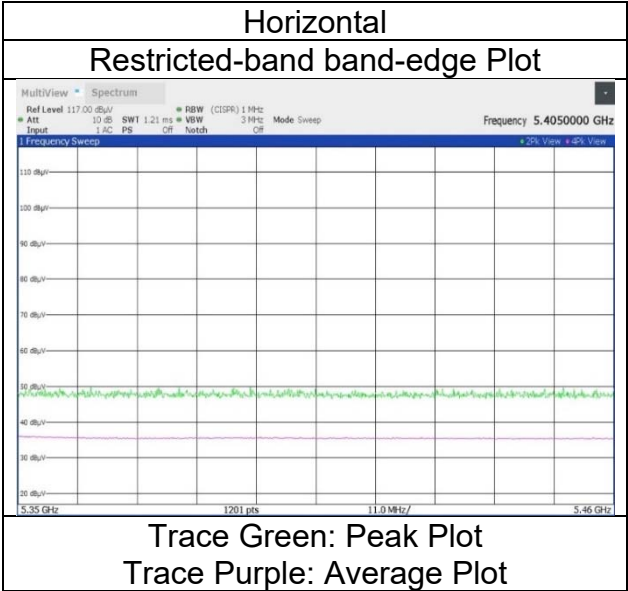
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11n-40 5310 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 21, 2025
Temperature / Humidity	22 deg. C / 28 % RH
Engineer	Yosuke Murakami
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-40 5510 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.62	31.87	16.55	43.34	2.46	58.16	73.9	15.7	255	205	-
Hori.	5460.000	AV	36.12	31.87	16.55	43.34	2.46	43.66	53.9	10.2	255	205	VBW:300 Hz
Vert.	5460.000	PK	50.71	31.87	16.55	43.34	2.46	58.25	73.9	15.6	100	141	-
Vert.	5460.000	AV	36.43	31.87	16.55	43.34	2.46	43.97	53.9	9.9	100	141	VBW:300 Hz

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

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

Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46 [dB]$

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

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5469.876	PK	56.83	31.89	16.55	43.35	-	2.46	64.38	-30.85	-27.0	3.8	255	205	-
Hori.	5470.000	PK	54.94	31.89	16.56	43.35	-	2.46	62.50	-32.73	-27.0	5.7	255	205	-
Vert.	5470.000	PK	56.87	31.89	16.56	43.35	-	2.46	64.43	-30.80	-27.0	3.8	100	141	-

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

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

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

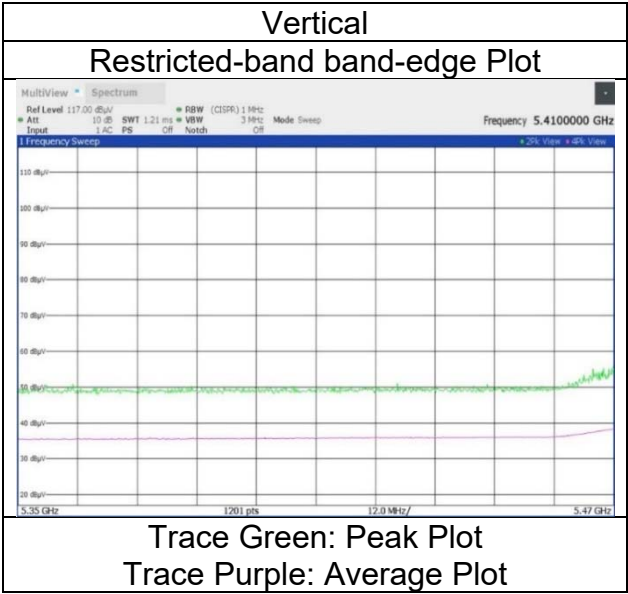
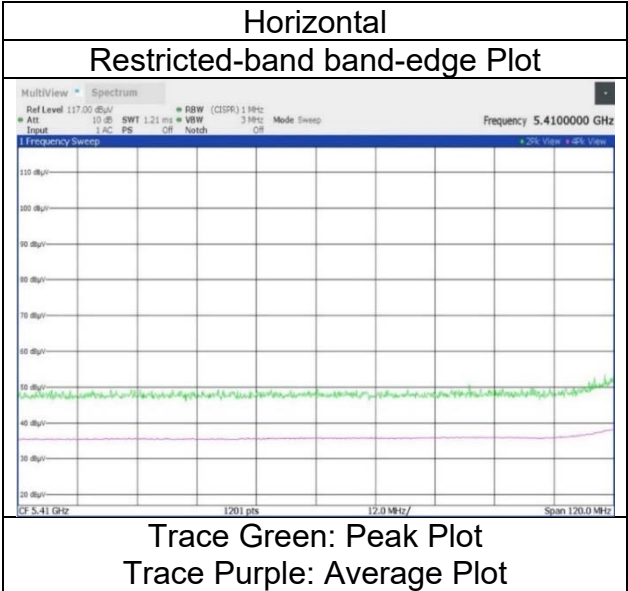
Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46 [dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 28 % RH
Yosuke Murakami
Tx 11n-40 5510 MHz



* 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 WAC 1
Date April 15, 2025
Temperature / Humidity 20 deg. C / 36 % RH
Engineer Yuta Shiba
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5550 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	46.81	32.85	-26.04	-	2.46	56.08	73.9	17.8	154	22	-
Hori.	5460.000	AV	33.06	32.85	-26.04	-	2.46	42.33	53.9	11.5	154	22	VBW : 300 Hz
Vert.	5460.000	PK	47.80	32.85	-26.04	-	2.46	57.07	73.9	16.8	103	181	-
Vert.	5460.000	AV	34.06	32.85	-26.04	-	2.46	43.33	53.9	10.5	103	181	VBW : 300 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.61	32.92	-26.03	-	-	2.46	58.96	-36.27	-27.0	9.2	154	22	-
Vert.	5470.000	PK	50.02	32.92	-26.03	-	-	2.46	59.37	-35.86	-27.0	8.8	103	181	-

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

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

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

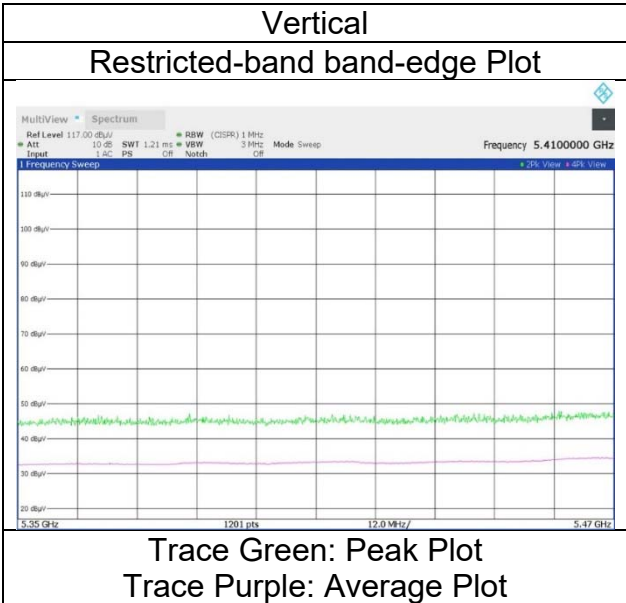
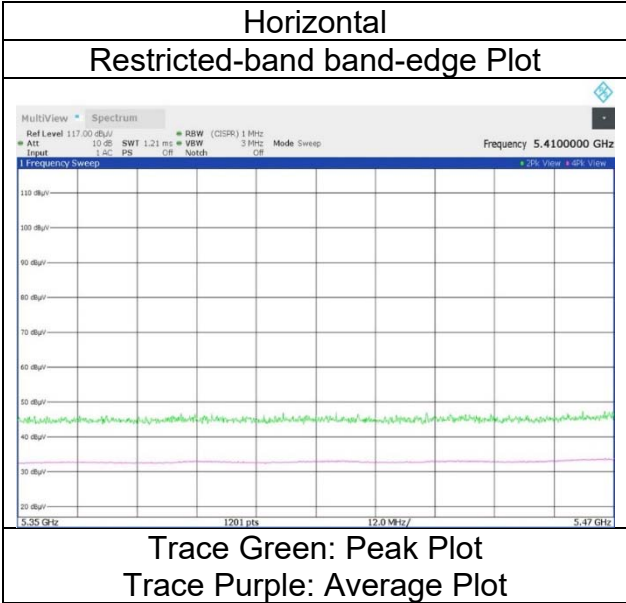
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC 1
April 15, 2025
20 deg. C / 36 % RH
Yuta Shiba
Tx 11n-40 5550 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 21, 2025
Temperature / Humidity	22 deg. C / 28 % RH
Engineer	Yosuke Murakami
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-40 5590 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.13	31.87	16.55	43.34	2.46	58.67	73.9	15.2	292	203	-
Hori.	5460.000	AV	36.27	31.87	16.55	43.34	2.46	43.81	53.9	10.0	292	203	VBW:300 Hz
Vert.	5460.000	PK	50.37	31.87	16.55	43.34	2.46	57.91	73.9	15.9	316	30	-
Vert.	5460.000	AV	36.10	31.87	16.55	43.34	2.46	43.64	53.9	10.2	316	30	VBW:300 Hz

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

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

Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46 [dB]$

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

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5465.533	PK	53.69	31.88	16.55	43.34	-	2.46	61.24	-33.99	-27.0	6.9	292	203	-
Hori.	5470.000	PK	51.96	31.89	16.56	43.35	-	2.46	59.52	-35.71	-27.0	8.7	292	203	-
Vert.	5470.000	PK	52.47	31.89	16.56	43.35	-	2.46	60.03	-35.20	-27.0	8.2	316	30	-

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

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

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

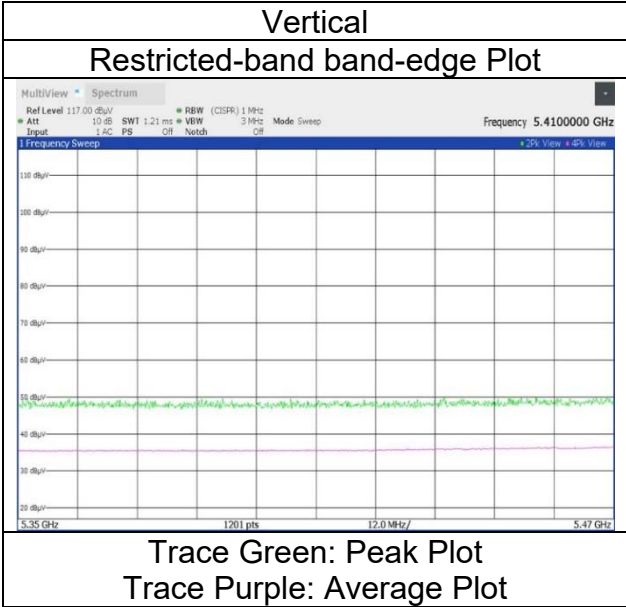
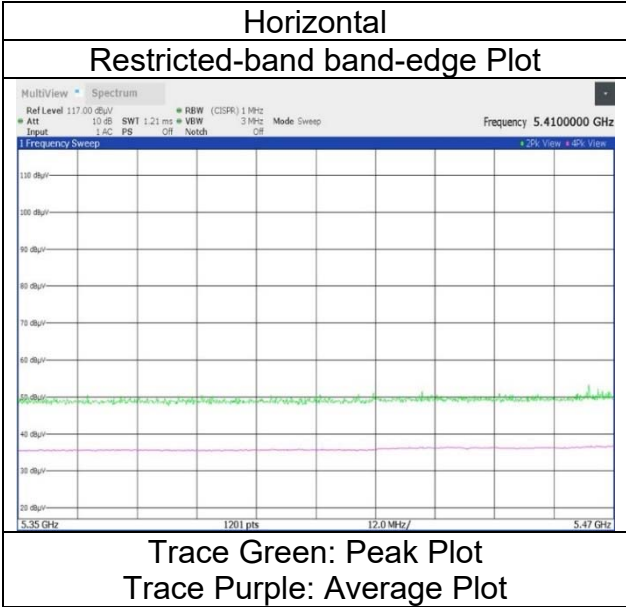
Distance Fac.: 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46 [dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 28 % RH
Yosuke Murakami
Tx 11n-40 5590 MHz



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 28 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5630 MHz

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

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	55.54	32.38	16.71	43.37	-	2.46	63.72	-31.51	-27.0	4.5	320	6	-
Vert.	5725.000	PK	57.08	32.38	16.71	43.37	-	2.46	65.26	-29.97	-27.0	2.9	127	140	-
Vert.	5725.939	PK	57.26	32.38	16.71	43.37	-	2.46	65.44	-29.79	-27.0	2.7	127	140	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

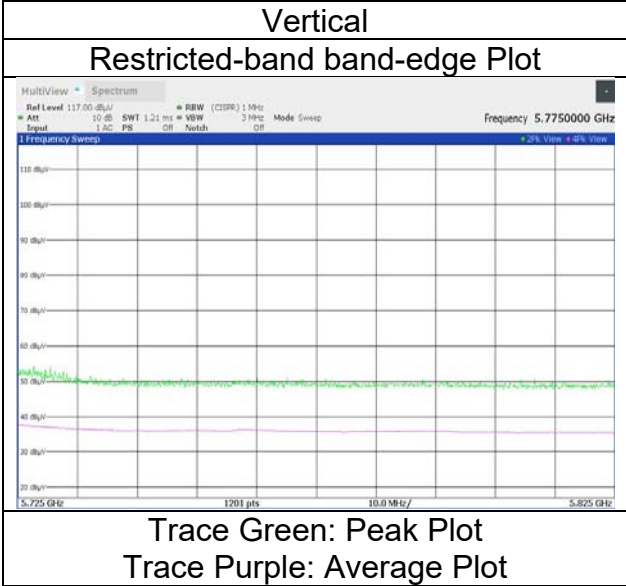
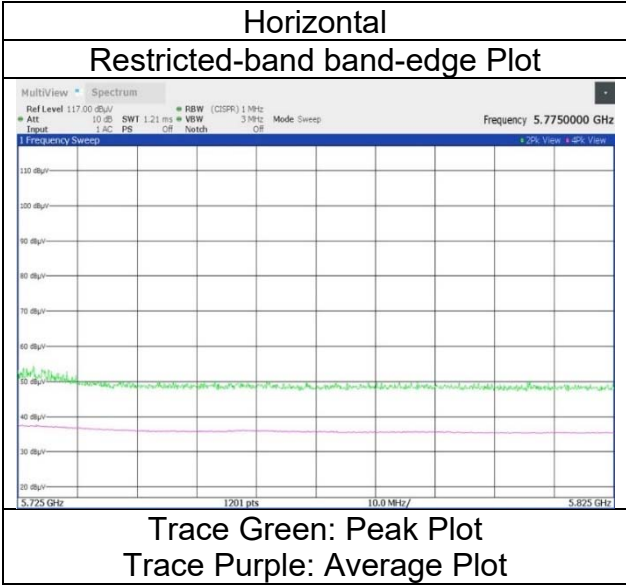
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 28 % RH
Yosuke Murakami
Tx 11n-40 5630 MHz



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 28 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5670 MHz

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

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	54.30	32.38	16.71	43.37	-	2.46	62.48	-32.75	-27.0	5.7	386	194	-
Hori.	5740.529	PK	55.23	32.43	16.72	43.37	-	2.46	63.47	-31.76	-27.0	4.7	386	194	-
Vert.	5725.000	PK	54.55	32.38	16.71	43.37	-	2.46	62.73	-32.50	-27.0	5.4	326	4	-
Vert.	5739.565	PK	56.12	32.43	16.71	43.37	-	2.46	64.35	-30.88	-27.0	3.8	326	4	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

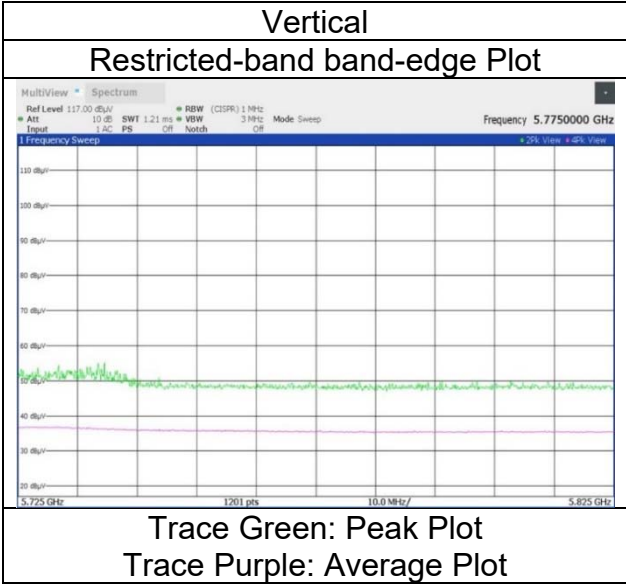
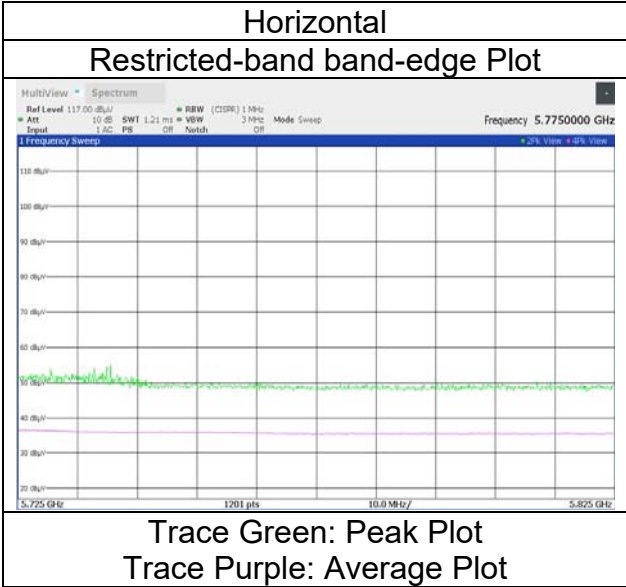
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 28 % RH
Yosuke Murakami
Tx 11n-40 5670 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 21, 2025
Temperature / Humidity	23 deg. C / 38 % RH
Engineer	Yohsuke Matszawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-40 5755 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.00	32.13	16.66	43.37	-	2.46	57.88	-37.35	-27.0	10.3	103	19	-
Hori.	5700.000	PK	50.14	32.30	16.70	43.37	-	2.46	58.23	-37.00	10.0	47.0	103	19	-
Hori.	5720.000	PK	51.87	32.36	16.71	43.37	-	2.46	60.03	-35.20	15.6	50.8	103	19	-
Hori.	5725.000	PK	52.73	32.38	16.71	43.37	-	2.46	60.91	-34.32	27.0	61.3	103	19	-
Vert.	5650.000	PK	49.63	32.13	16.66	43.37	-	2.46	57.51	-37.72	-27.0	10.7	147	24	-
Vert.	5700.000	PK	49.35	32.30	16.70	43.37	-	2.46	57.44	-37.79	10.0	47.7	147	24	-
Vert.	5720.000	PK	51.37	32.36	16.71	43.37	-	2.46	59.53	-35.70	15.6	51.3	147	24	-
Vert.	5725.000	PK	52.15	32.38	16.71	43.37	-	2.46	60.33	-34.90	27.0	61.9	147	24	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

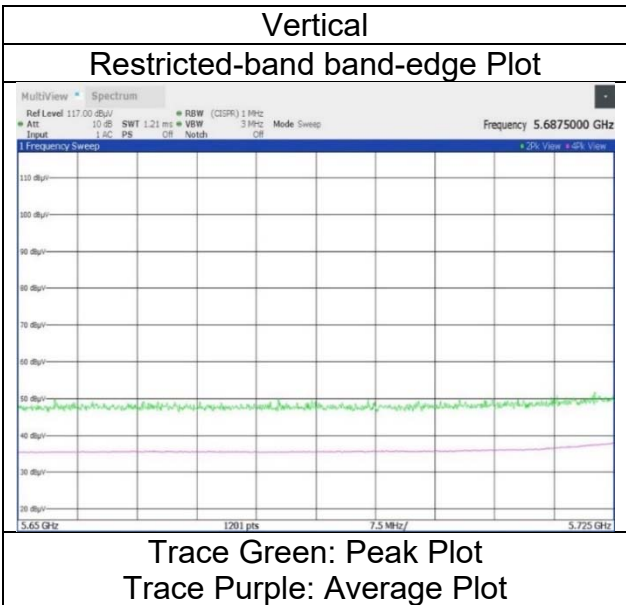
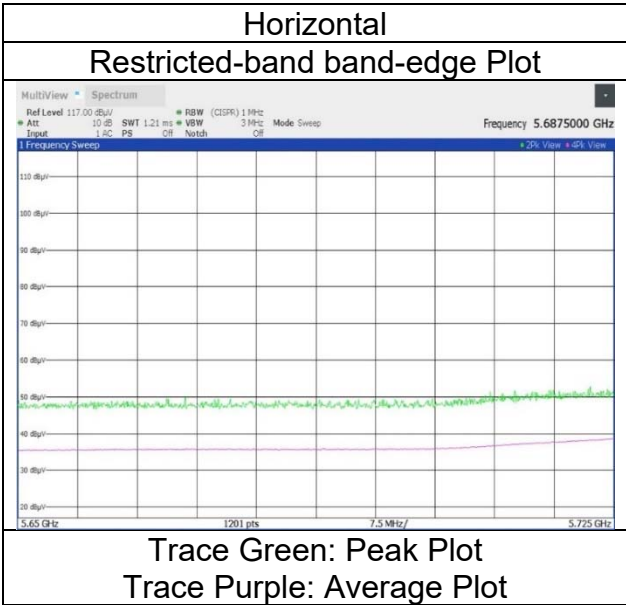
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
23 deg. C / 38 % RH
Yohsuke Matszawa
Tx 11n-40 5755 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 21, 2025
Temperature / Humidity	23 deg. C / 38 % RH
Engineer	Yohsuke Matszawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11n-40 5795 MHz

(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]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	60.28	32.76	16.79	43.37	-	2.46	68.92	-26.31	27.0	53.3	153	27	-
Hori.	5855.000	PK	59.76	32.77	16.79	43.37	-	2.46	68.41	-26.82	15.6	42.4	153	27	-
Hori.	5875.000	PK	52.68	32.81	16.80	43.37	-	2.46	61.38	-33.85	10.0	43.8	153	27	-
Hori.	5925.000	PK	50.36	32.92	16.83	43.36	-	2.46	59.21	-36.02	-27.0	9.0	153	27	-
Vert.	5850.000	PK	58.63	32.76	16.79	43.37	-	2.46	67.27	-27.96	27.0	54.9	142	55	-
Vert.	5855.000	PK	57.93	32.77	16.79	43.37	-	2.46	66.58	-28.65	15.6	44.2	142	55	-
Vert.	5875.000	PK	52.55	32.81	16.80	43.37	-	2.46	61.25	-33.98	10.0	43.9	142	55	-
Vert.	5925.000	PK	50.00	32.92	16.83	43.36	-	2.46	58.85	-36.38	-27.0	9.3	142	55	-

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

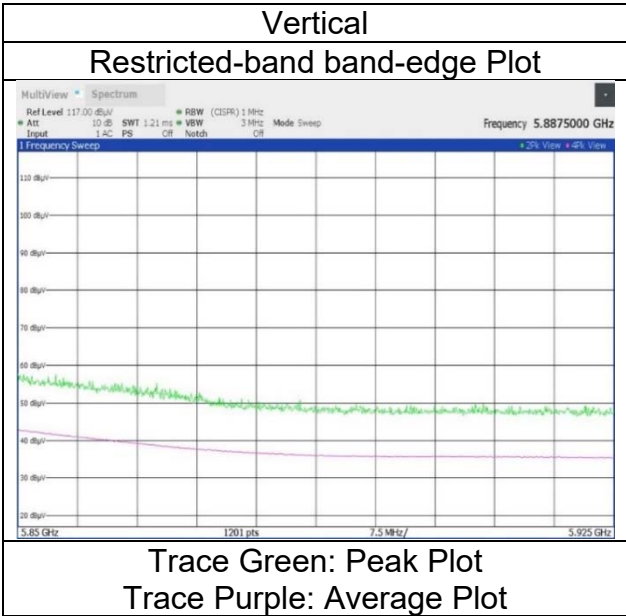
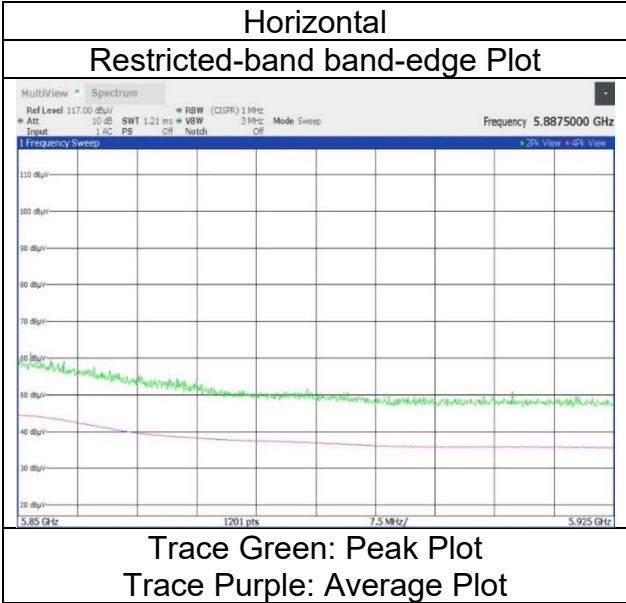
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
23 deg. C / 38 % RH
Yohsuke Matszawa
Tx 11n-40 5795 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 21, 2025	February 26, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	22 deg. C / 30 % RH	24deg. C / 24 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yasumasa Owaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-40 5190 MHz				

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance Fac.	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	5150.000	PK	50.74	31.88	16.37	42.99	2.46	58.46	73.9	15.4	100	85	-	
Hori.	15570.000	PK	47.62	39.31	11.07	40.63	-9.54	47.83	73.9	26.0	150	0	-	
Hori.	20760.000	PK	48.46	40.11	12.88	47.01	-9.54	44.90	73.9	29.0	161	220	-	
Hori.	5150.000	AV	36.30	31.88	16.37	42.99	2.46	44.02	53.9	9.8	100	85	VBW:300 Hz	
Hori.	15570.000	AV	33.01	39.31	11.07	40.63	-9.54	33.22	53.9	20.6	150	0	VBW:300 Hz	
Hori.	20760.000	AV	43.59	40.11	12.88	47.01	-9.54	40.03	53.9	13.8	161	220	VBW:300 Hz	
Vert.	5150.000	PK	50.14	31.88	16.37	42.99	2.46	57.86	73.9	16.0	149	166	-	
Vert.	15570.000	PK	47.59	39.31	11.07	40.63	-9.54	47.80	73.9	26.1	150	0	-	
Vert.	20760.000	PK	49.84	40.11	12.88	47.01	-9.54	46.28	73.9	27.6	142	298	-	
Vert.	5150.000	AV	36.07	31.88	16.37	42.99	2.46	43.79	53.9	10.1	149	166	VBW:300 Hz	
Vert.	15570.000	AV	33.05	39.31	11.07	40.63	-9.54	33.26	53.9	20.6	150	0	VBW:300 Hz	
Vert.	20760.000	AV	46.40	40.11	12.88	47.01	-9.54	42.84	53.9	11.0	142	298	VBW:300 Hz	

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

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

Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

10 GHz to 40 GHz : 20log (1.00 [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	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]		
Hori.	10380.000	PK	50.08	36.07	8.92	42.84	-	-9.54	42.69	-52.54	-27.0	25.5	152	301	-	
Vert.	10380.000	PK	48.73	36.07	8.92	42.84	-	-9.54	41.34	-53.89	-27.0	26.8	151	245	-	

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

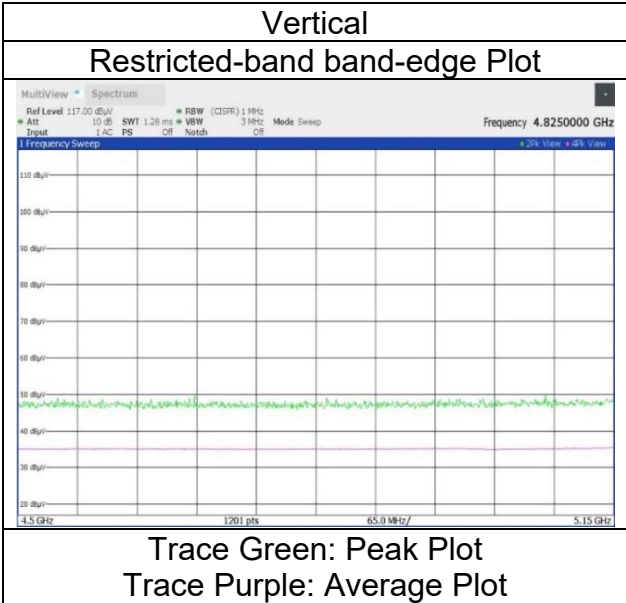
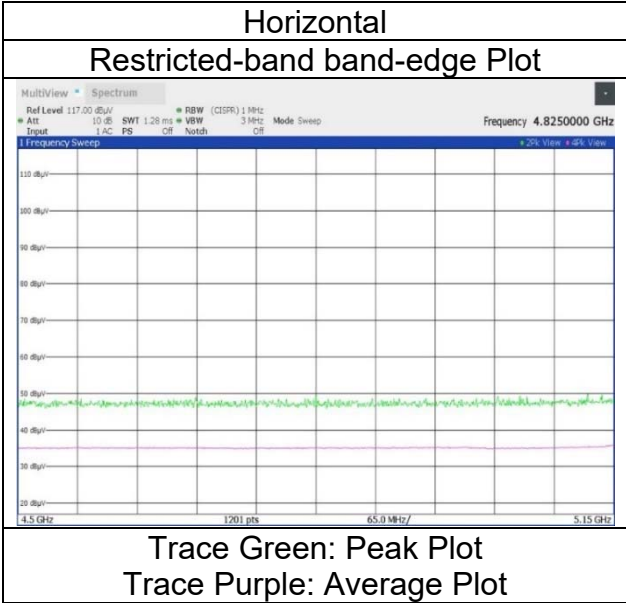
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-40 5190 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 21, 2025	February 26, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	22 deg. C / 30 % RH	24deg. C / 24 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yasumasa Owaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-40 5230 MHz				

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance Fac.	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	5150.000	PK	55.33	31.88	16.37	42.99	2.46	63.05	73.9	10.8	332	197	-	
Hori.	15690.000	PK	47.41	39.48	11.07	40.61	-9.54	47.81	73.9	26.0	100	0	-	
Hori.	20920.000	PK	47.72	40.07	12.93	47.06	-9.54	44.12	73.9	29.7	159	219	-	
Hori.	5150.000	AV	37.66	31.88	16.37	42.99	2.46	45.38	53.9	8.5	332	197	VBW:300 Hz	
Hori.	15690.000	AV	33.10	39.48	11.07	40.61	-9.54	33.50	53.9	20.4	100	0	VBW:300 Hz	
Hori.	20920.000	AV	42.85	40.07	12.93	47.06	-9.54	39.25	53.9	14.6	159	219	VBW:300 Hz	
Vert.	5150.000	PK	54.96	31.88	16.37	42.99	2.46	62.68	73.9	11.2	139	143	-	
Vert.	15690.000	PK	47.36	39.48	11.07	40.61	-9.54	47.76	73.9	26.1	150	0	-	
Vert.	20920.000	PK	48.65	40.07	12.93	47.06	-9.54	45.05	73.9	28.8	143	297	-	
Vert.	5150.000	AV	37.84	31.88	16.37	42.99	2.46	45.56	53.9	8.3	139	143	VBW:300 Hz	
Vert.	15690.000	AV	33.08	39.48	11.07	40.61	-9.54	33.48	53.9	20.4	150	0	VBW:300 Hz	
Vert.	20920.000	AV	44.72	40.07	12.93	47.06	-9.54	41.12	53.9	12.7	143	297	VBW:300 Hz	

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

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

Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

10 GHz to 40 GHz : 20log (1.00 [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	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]		
Hori.	10460.000	PK	53.25	36.15	8.97	42.83	-	-9.54	46.00	-49.23	-27.0	22.2	159	126	-	
Vert.	10460.000	PK	53.87	36.15	8.97	42.83	-	-9.54	46.62	-48.61	-27.0	21.6	158	74	-	

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

Result (EIRP) [dBm] = 10 * LOG ((10 ^ (Result [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).

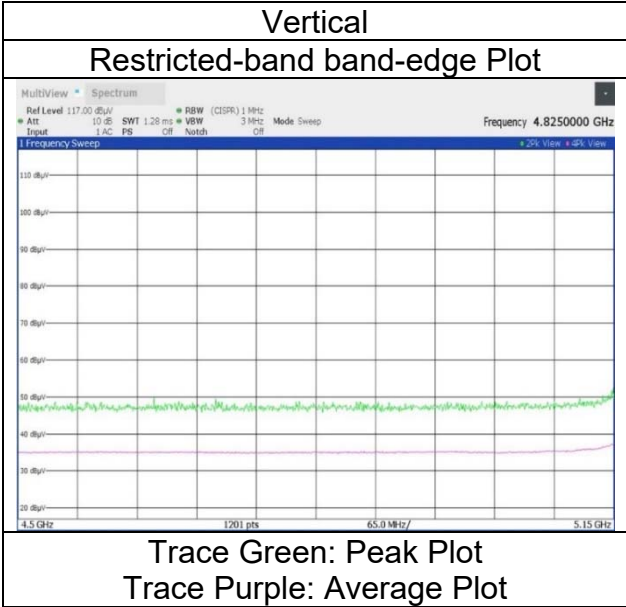
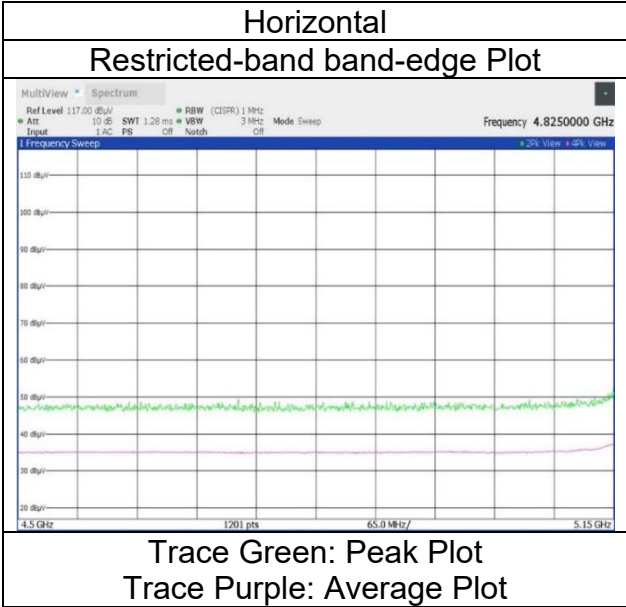
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-40 5230 MHz



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 21, 2025
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yasumasa Owaki
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5270 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5350.000	PK	54.59	31.60	16.49	43.21	2.46	61.93	73.9	11.9	122	80	-
Hori.	5350.000	AV	37.70	31.60	16.49	43.21	2.46	45.04	53.9	8.8	122	80	VBW:300 Hz
Vert.	5350.000	PK	54.68	31.60	16.49	43.21	2.46	62.02	73.9	11.8	142	158	-
Vert.	5350.000	AV	37.75	31.60	16.49	43.21	2.46	45.09	53.9	8.8	142	158	VBW:300 Hz

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

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

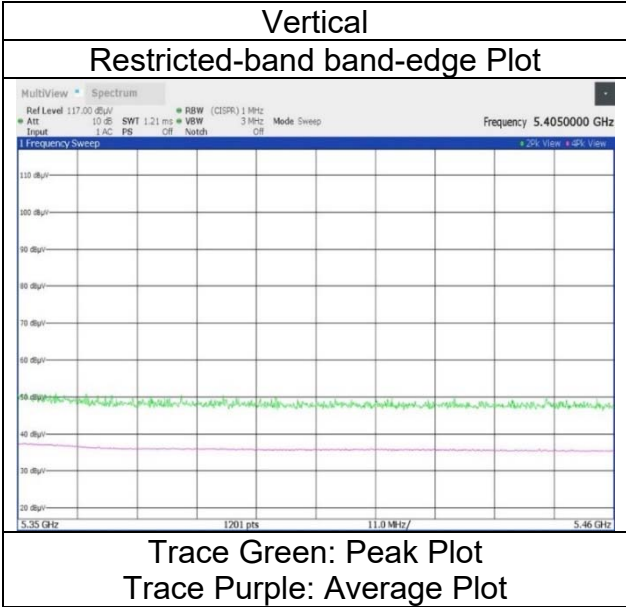
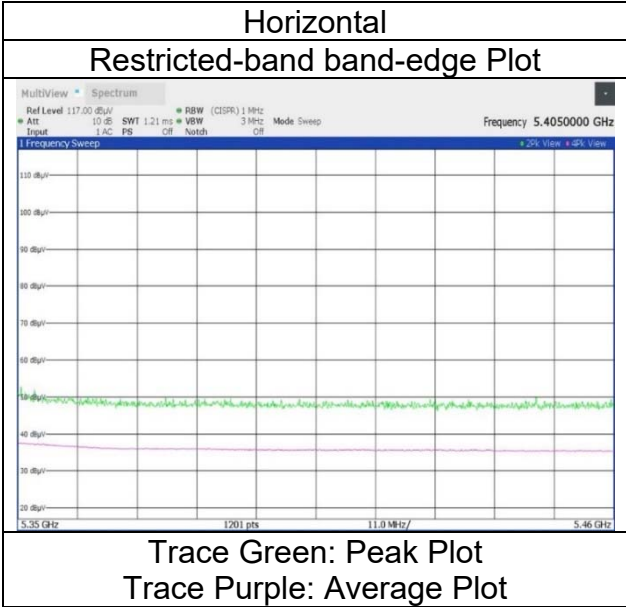
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-40 5270 MHz



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 21, 2025	February 26, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	22 deg. C / 30 % RH	24deg. C / 24 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yasumasa Owaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-40 5310 MHz				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5350.000	PK	50.98	31.60	16.49	43.21	2.46	58.32	73.9	15.5	100	77	-
Hori.	10620.000	PK	50.59	36.75	9.03	42.86	-9.54	43.97	73.9	29.9	147	297	-
Hori.	15930.000	PK	47.75	40.04	11.07	40.58	-9.54	48.74	73.9	25.1	150	0	-
Hori.	21240.000	PK	47.64	40.08	13.03	47.06	-9.54	44.15	73.9	29.7	153	220	-
Hori.	5350.000	AV	36.12	31.60	16.49	43.21	2.46	43.46	53.9	10.4	100	77	VBW:300 Hz
Hori.	10620.000	AV	36.03	36.75	9.03	42.86	-9.54	29.41	53.9	24.4	147	297	VBW:300 Hz
Hori.	15930.000	AV	33.27	40.04	11.07	40.58	-9.54	34.26	53.9	19.6	150	0	VBW:300 Hz
Hori.	21240.000	AV	41.83	40.08	13.03	47.06	-9.54	38.34	53.9	15.5	153	220	VBW:300 Hz
Vert.	5350.000	PK	50.61	31.60	16.49	43.21	2.46	57.95	73.9	15.9	133	153	-
Vert.	10620.000	PK	49.24	36.75	9.03	42.86	-9.54	42.62	73.9	31.2	152	243	-
Vert.	15930.000	PK	47.63	40.04	11.07	40.58	-9.54	48.62	73.9	25.2	150	0	-
Vert.	21240.000	PK	48.32	40.08	13.03	47.06	-9.54	44.83	73.9	29.0	145	297	-
Vert.	5350.000	AV	36.02	31.60	16.49	43.21	2.46	43.36	53.9	10.5	133	153	VBW:300 Hz
Vert.	10620.000	AV	34.27	36.75	9.03	42.86	-9.54	27.65	53.9	26.2	152	243	VBW:300 Hz
Vert.	15930.000	AV	33.15	40.04	11.07	40.58	-9.54	34.14	53.9	19.7	150	0	VBW:300 Hz
Vert.	21240.000	AV	43.79	40.08	13.03	47.06	-9.54	40.30	53.9	13.6	145	297	VBW:300 Hz

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

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

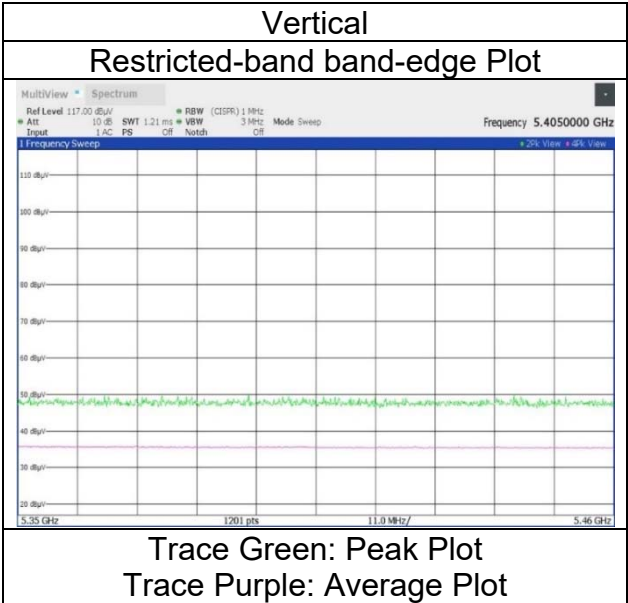
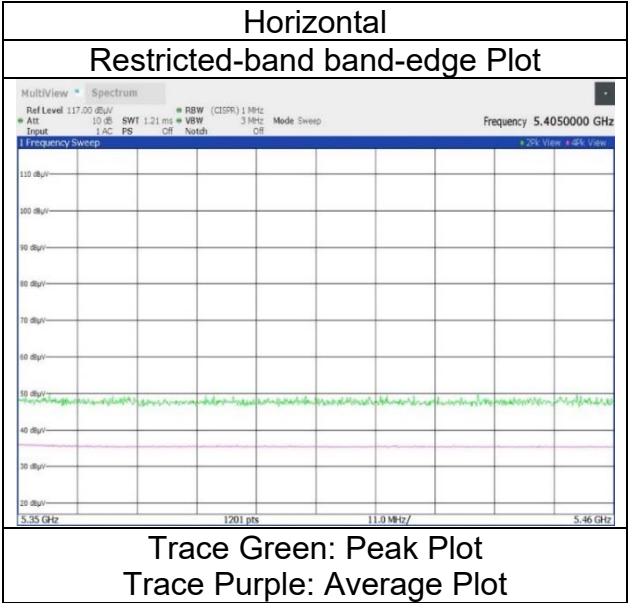
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
Tx 11ac-40 5310 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 22, 2025	February 26, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	21 deg. C / 25 % RH	24deg. C / 24 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Masahide Ozaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-40 5510 MHz				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5460.000	PK	50.89	31.87	16.55	43.34	2.46	58.43	73.9	15.4	345	211	-
Hori.	11020.000	PK	50.72	37.24	9.19	42.95	-9.54	44.66	73.9	29.2	146	125	-
Hori.	18366.670	PK	46.42	40.04	12.00	48.18	-9.54	40.74	73.9	33.1	157	104	-
Hori.	22040.000	PK	48.88	40.24	13.34	47.32	-9.54	45.60	73.9	28.3	156	222	-
Hori.	5460.000	AV	36.11	31.87	16.55	43.34	2.46	43.65	53.9	10.2	345	211	VBW:300 Hz
Hori.	11020.000	AV	36.24	37.24	9.19	42.95	-9.54	30.18	53.9	23.7	146	125	VBW:300 Hz
Hori.	18366.670	AV	38.96	40.04	12.00	48.18	-9.54	33.28	53.9	20.6	157	104	VBW:300 Hz
Hori.	22040.000	AV	43.46	40.24	13.34	47.32	-9.54	40.18	53.9	13.7	156	222	VBW:300 Hz
Vert.	5460.000	PK	51.46	31.87	16.55	43.34	2.46	59.00	73.9	14.9	100	140	-
Vert.	11020.000	PK	50.02	37.24	9.19	42.95	-9.54	43.96	73.9	29.9	154	235	-
Vert.	18366.670	PK	44.32	40.04	12.00	48.18	-9.54	38.64	73.9	35.2	150	304	-
Vert.	22040.000	PK	49.80	40.24	13.34	47.32	-9.54	46.52	73.9	27.3	138	317	-
Vert.	5460.000	AV	36.05	31.87	16.55	43.34	2.46	43.59	53.9	10.3	100	140	VBW:300 Hz
Vert.	11020.000	AV	34.53	37.24	9.19	42.95	-9.54	28.47	53.9	25.4	154	235	VBW:300 Hz
Vert.	18366.670	AV	33.80	40.04	12.00	48.18	-9.54	28.12	53.9	25.7	150	304	VBW:300 Hz
Vert.	22040.000	AV	44.90	40.24	13.34	47.32	-9.54	41.62	53.9	12.2	138	317	VBW:300 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5467.705	PK	55.45	31.89	16.55	43.34	-	2.46	63.01	-32.22	-27.0	5.2	345	211	-
Hori.	5470.000	PK	54.67	31.89	16.56	43.35	-	2.46	62.23	-33.00	-27.0	6.0	345	211	-
Hori.	16530.000	PK	47.23	39.88	11.73	40.63	-	-9.54	48.67	-46.56	-27.0	19.5	150	0	-
Vert.	5468.381	PK	55.25	31.89	16.55	43.34	-	2.46	62.81	-32.42	-27.0	5.4	100	140	-
Vert.	5470.000	PK	54.49	31.89	16.56	43.35	-	2.46	62.05	-33.18	-27.0	6.1	100	140	-
Vert.	16530.000	PK	47.35	39.88	11.73	40.63	-	-9.54	48.79	-46.44	-27.0	19.4	150	0	-

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

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

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

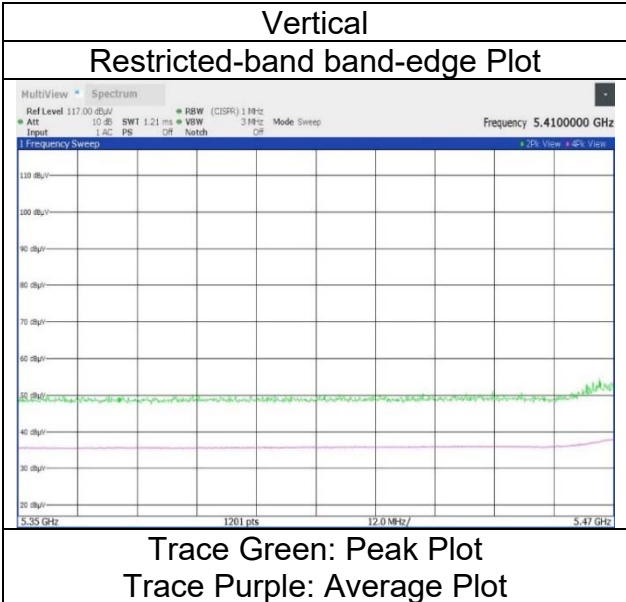
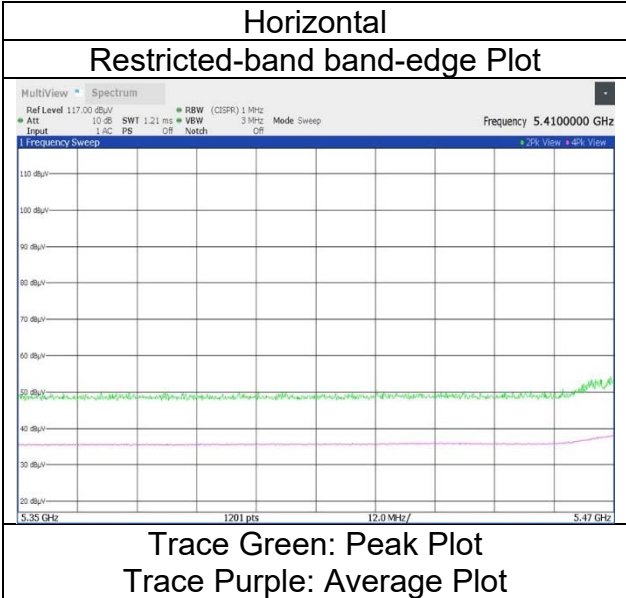
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 22, 2025
21 deg. C / 25 % RH
Masahide Ozaki
Tx 11ac-40 5510 MHz



* 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.