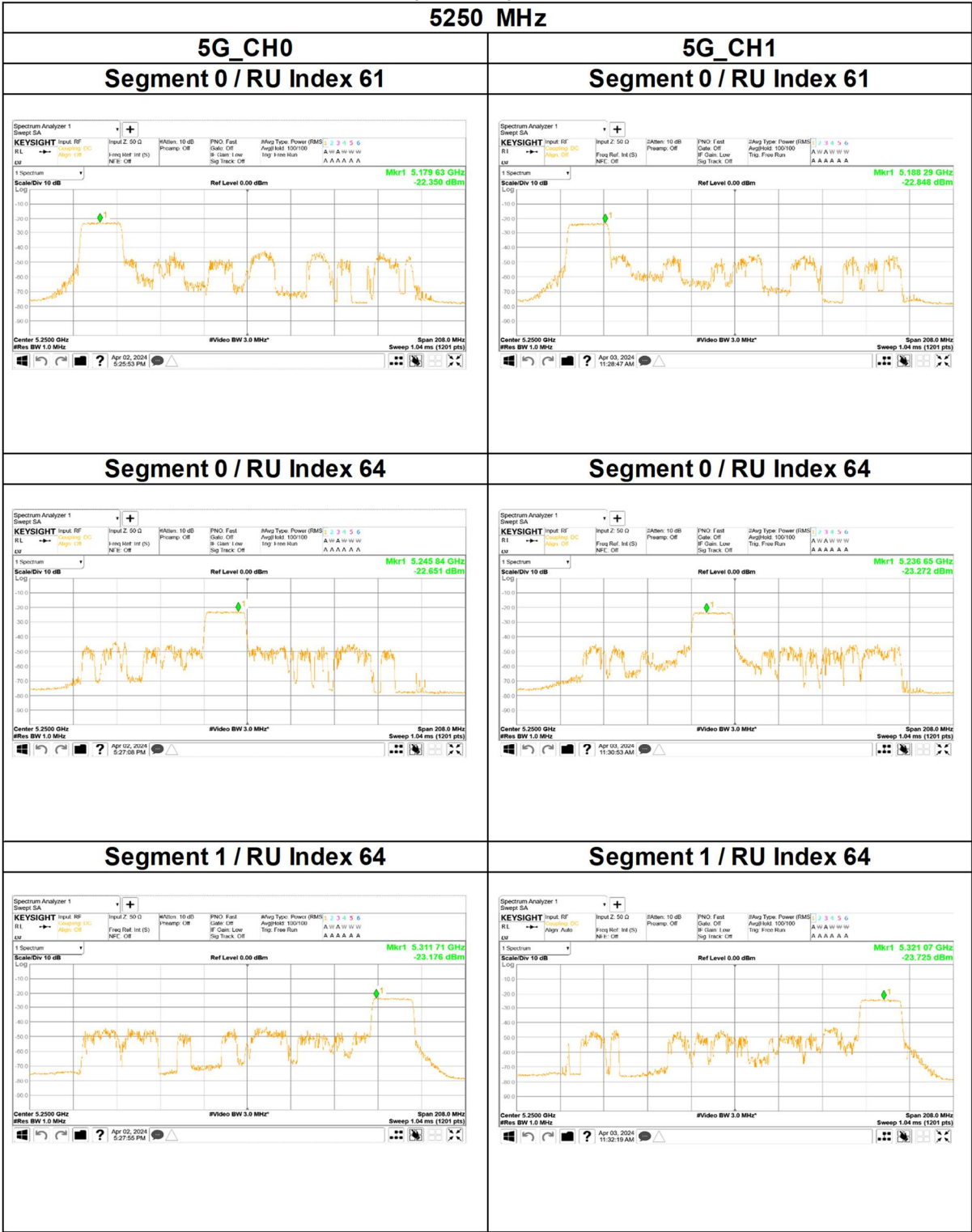


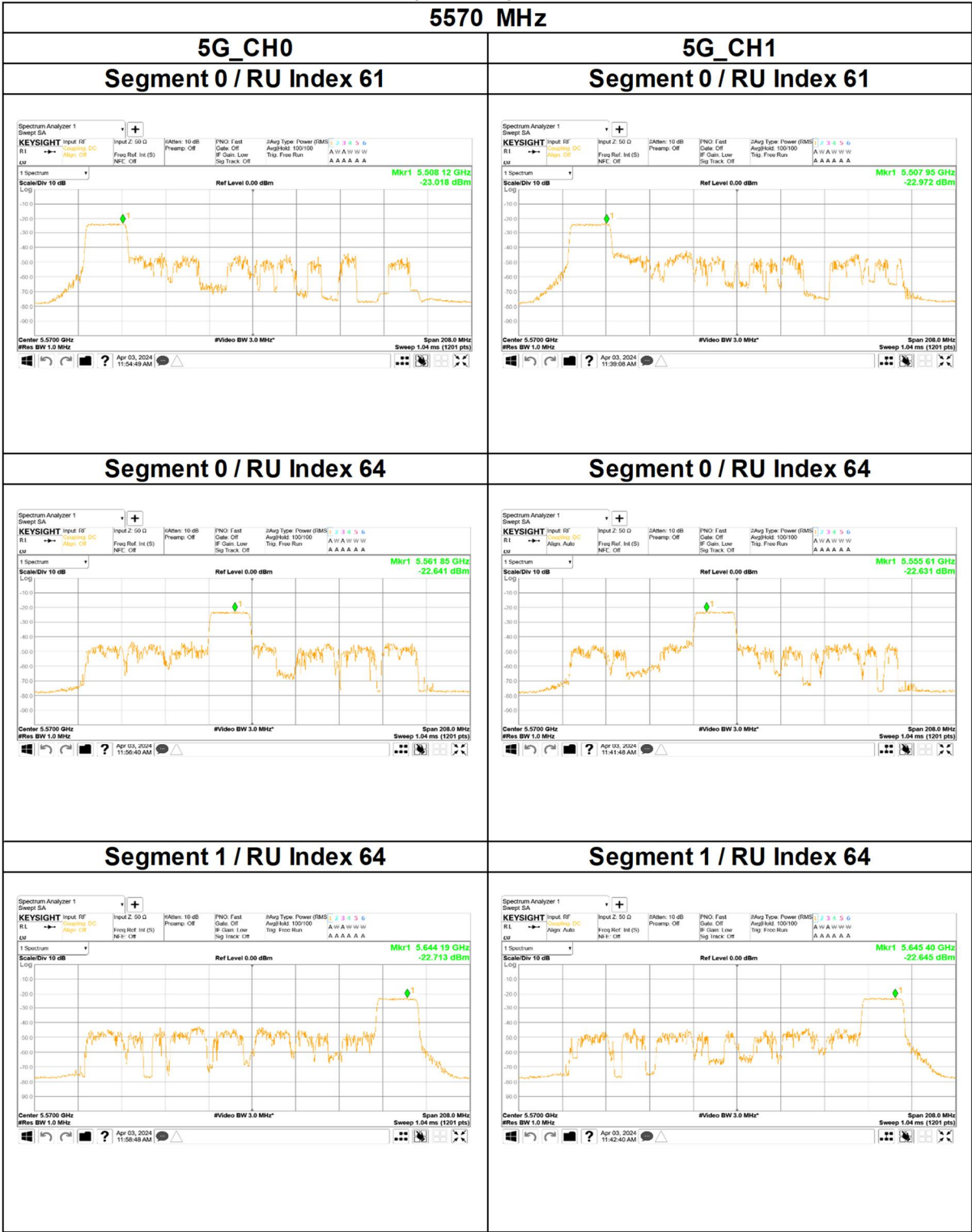
Maximum Power Spectral Density

11ax-160(OFDMA), 242-tone RU
5250 MHz



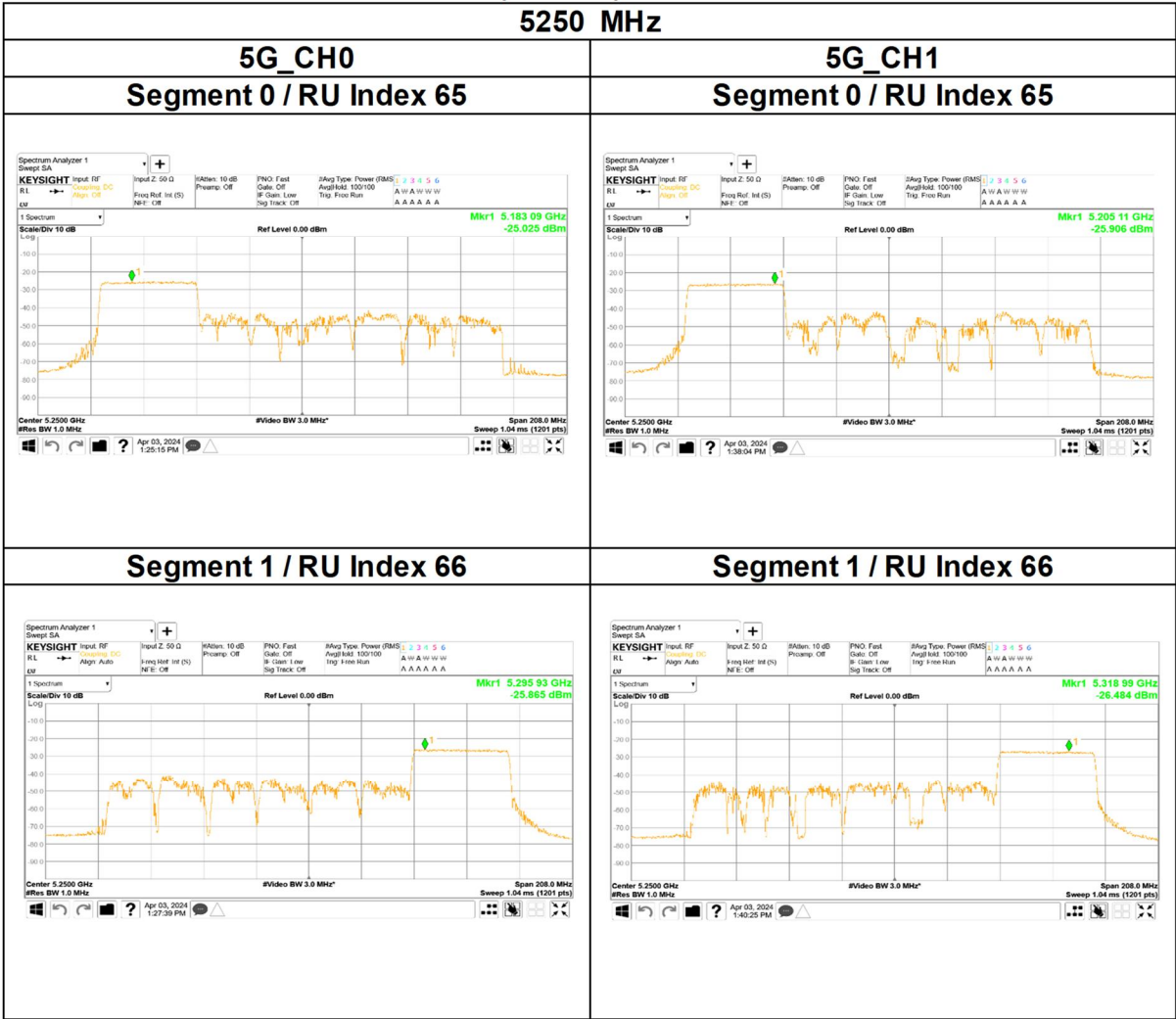
Maximum Power Spectral Density

11ax-160(OFDMA), 242-tone RU
5570 MHz



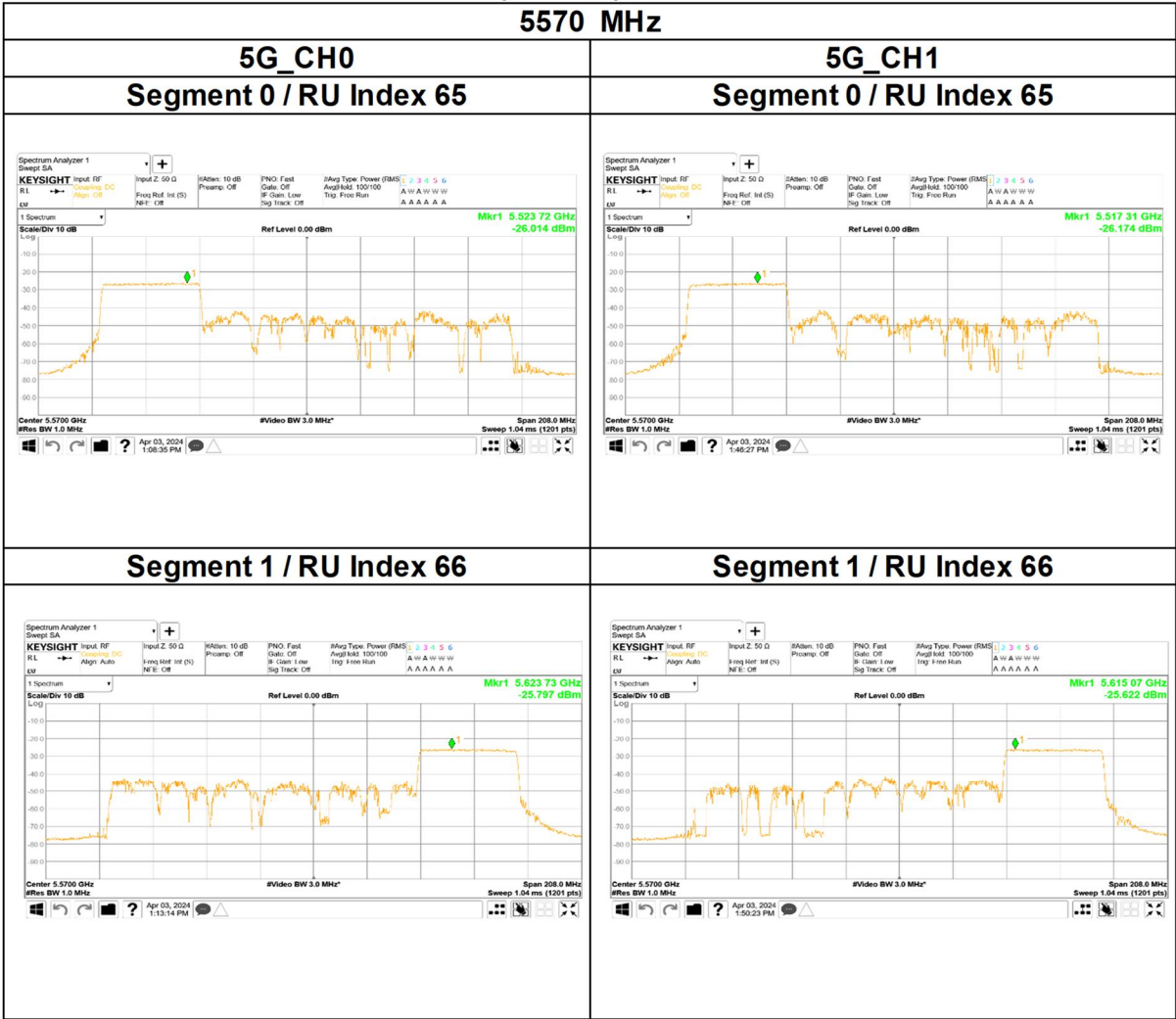
Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU
5250 MHz



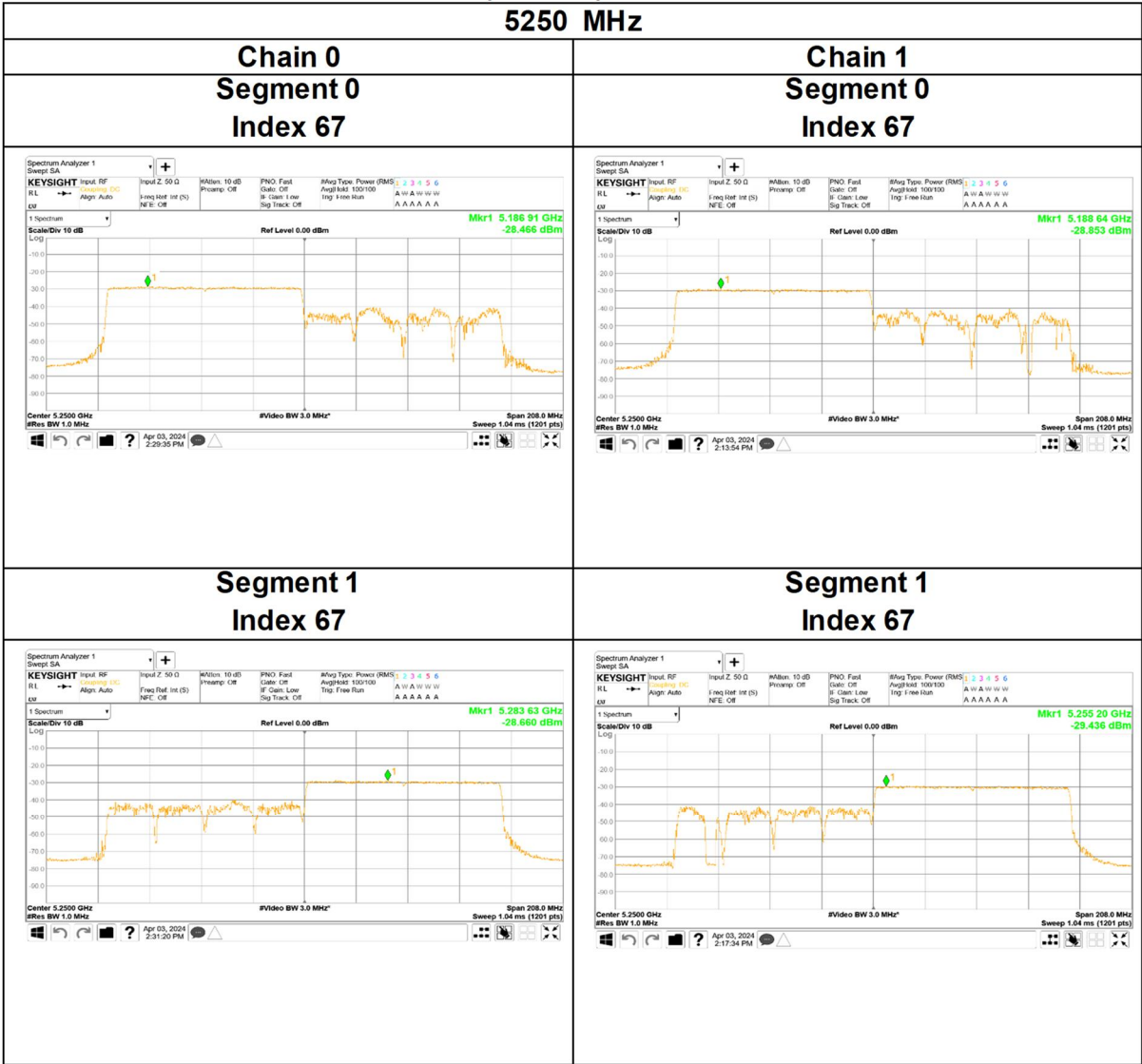
Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU
5570 MHz



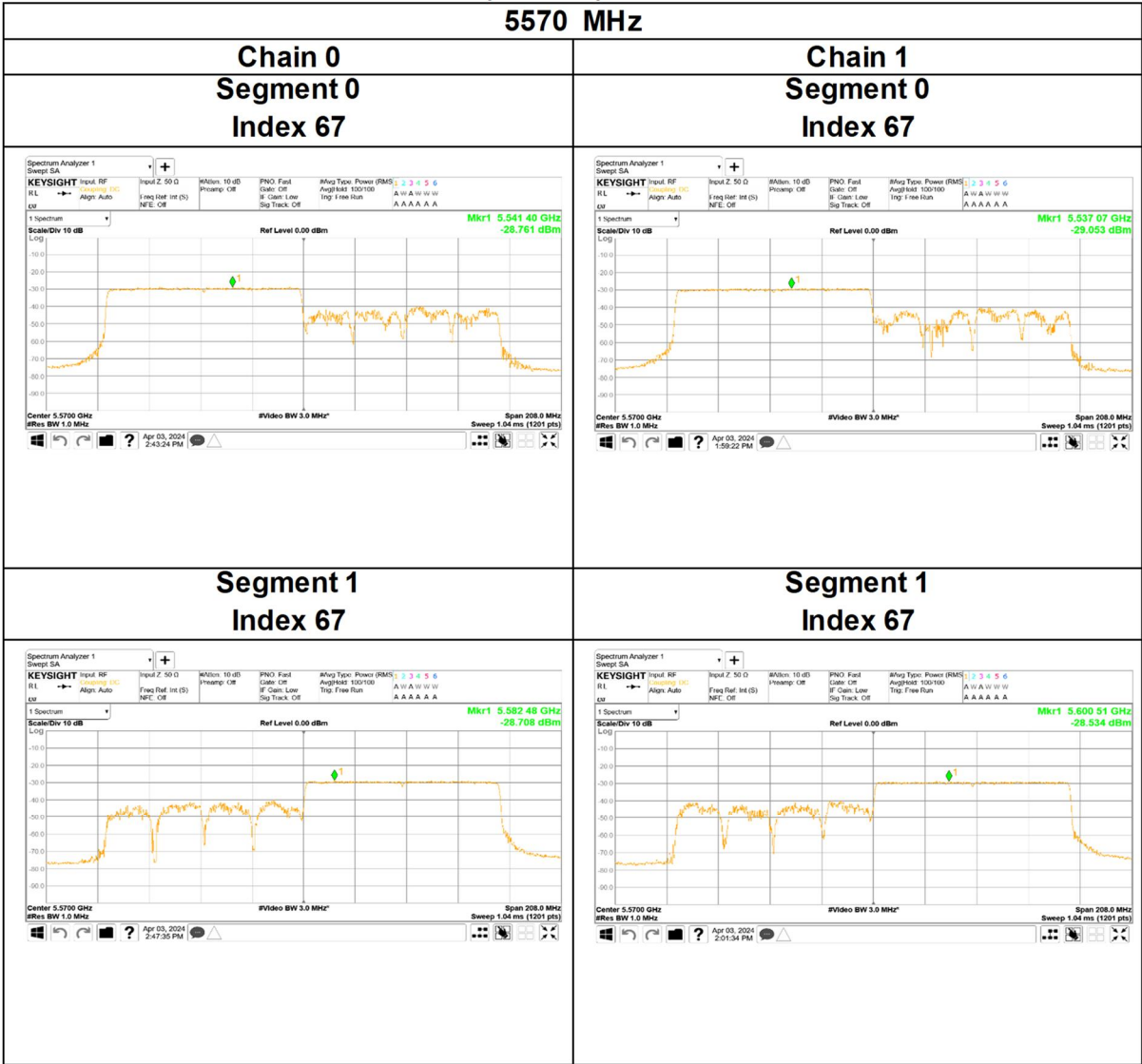
Maximum Power Spectral Density

11ax-160(OFDMA), 996-tone RU
5250 MHz



Maximum Power Spectral Density

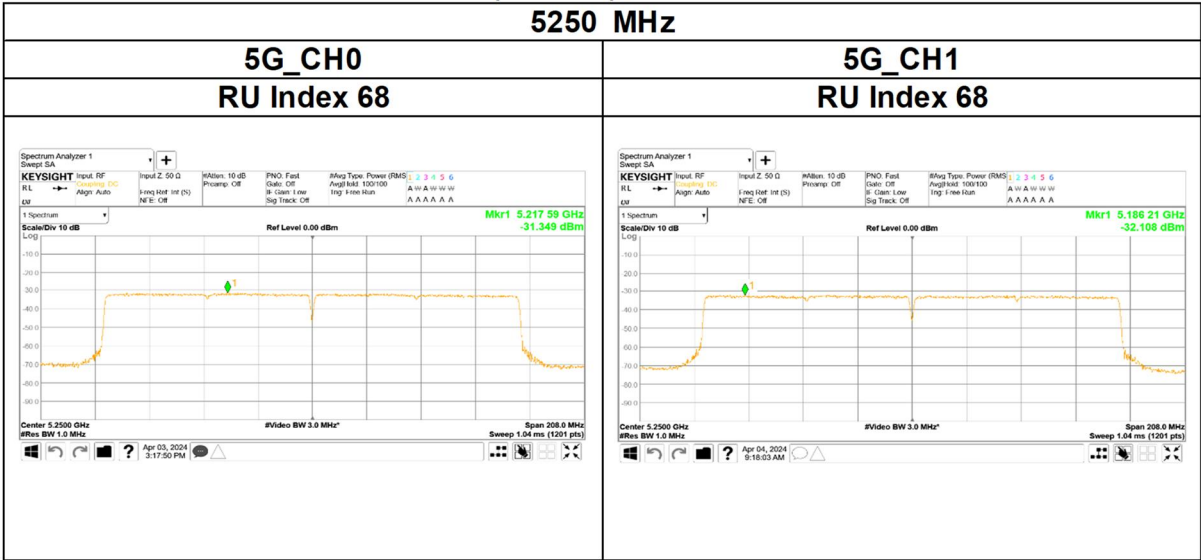
11ax-160(OFDMA), 996-tone RU
5570 MHz



Maximum Power Spectral Density

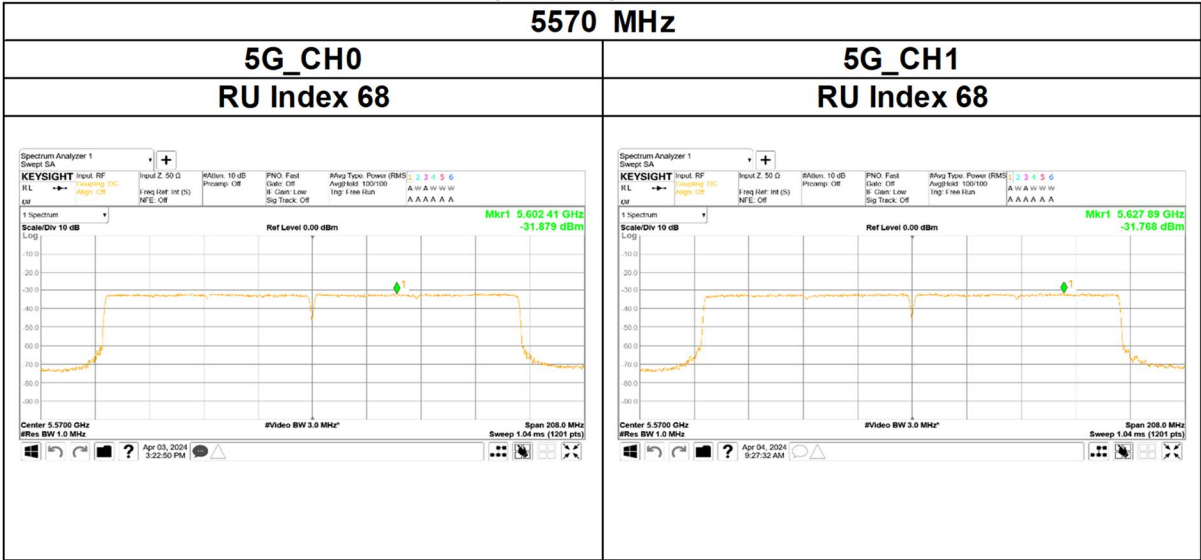
11ax-160(OFDMA), 2x996-tone RU

5250 MHz



11ax-160(OFDMA), 2x996-tone RU

5570 MHz



Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 23, 2023
Temperature / Humidity 23 deg. C / 26 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11a 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.83	32.16	16.62	43.07	2.10	56.64	73.9	17.2	177	45	-
Hori.	5150.000	AV	37.55	32.16	16.62	43.07	2.10	45.36	53.9	8.5	177	45	VBW:510 Hz
Vert.	5150.000	PK	48.88	32.16	16.62	43.07	2.10	56.69	73.9	17.2	234	0	-
Vert.	5150.000	AV	37.64	32.16	16.62	43.07	2.10	45.45	53.9	8.4	234	0	VBW:510 Hz

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

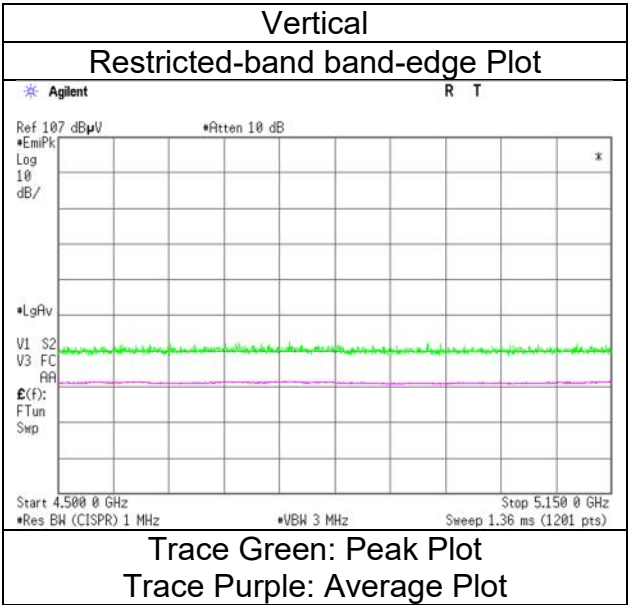
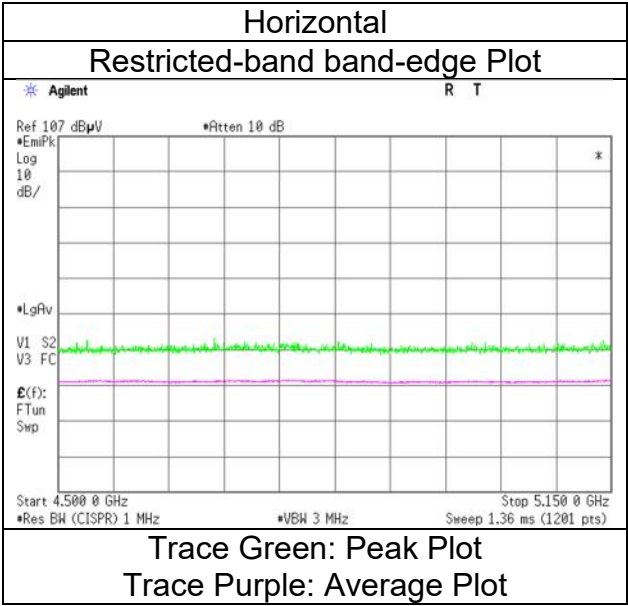
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 23, 2023
Temperature / Humidity	23 deg. C / 26 % RH
Engineer	Kenichi Adachi
Mode	Tx 11a 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 23, 2023
Temperature / Humidity 23 deg. C / 26 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11a 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.38	31.98	16.74	43.30	2.10	56.90	73.9	17.0	179	34	-
Hori.	5350.000	AV	38.11	31.98	16.74	43.30	2.10	45.63	53.9	8.2	179	34	VBW:510 Hz
Vert.	5350.000	PK	49.77	31.98	16.74	43.30	2.10	57.29	73.9	16.6	235	0	-
Vert.	5350.000	AV	38.23	31.98	16.74	43.30	2.10	45.75	53.9	8.1	235	0	VBW:510 Hz

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

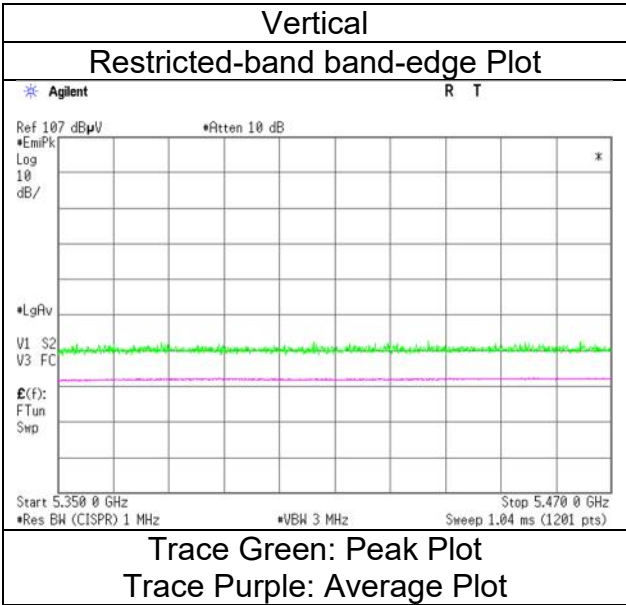
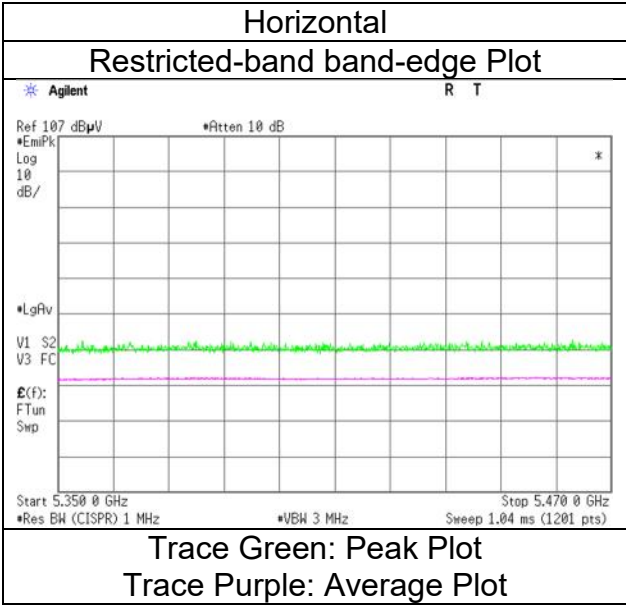
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 23, 2023
Temperature / Humidity	23 deg. C / 26 % RH
Engineer	Kenichi Adachi
Mode	Tx 11a 5320 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 23, 2023
Temperature / Humidity	23 deg. C / 26 % RH
Engineer	Kenichi Adachi
	(1 GHz to 6.4 GHz)
Mode	Tx 11a 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.38	32.24	16.82	43.42	2.10	56.12	73.9	17.7	178	39	-
Hori.	5460.000	AV	38.13	32.24	16.82	43.42	2.10	45.87	53.9	8.0	178	39	VBW:510 Hz
Vert.	5460.000	PK	48.76	32.24	16.82	43.42	2.10	56.50	73.9	17.4	293	0	-
Vert.	5460.000	AV	38.33	32.24	16.82	43.42	2.10	46.07	53.9	7.8	293	0	VBW:510 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.46	32.25	16.83	43.44	2.10	56.20	-39.03	-27.0	12.0	178	39	-
Vert.	5470.000	PK	48.96	32.25	16.83	43.44	2.10	56.70	-38.53	-27.0	11.5	293	0	-

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

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

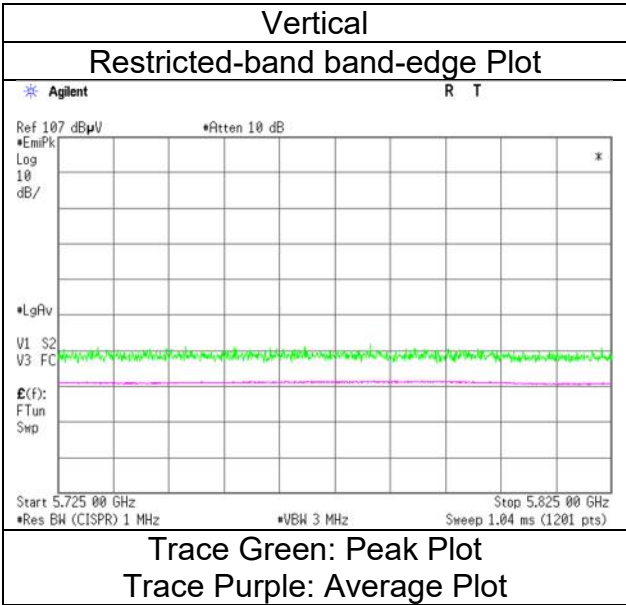
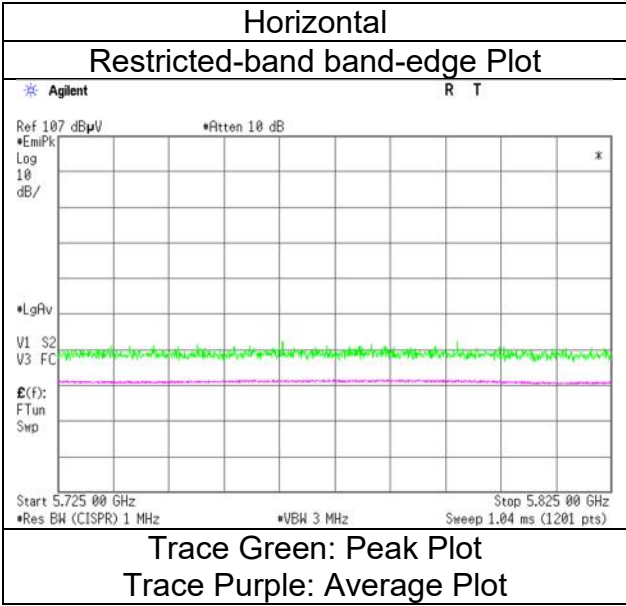
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 23, 2023
Temperature / Humidity	23 deg. C / 26 % RH
Engineer	Kenichi Adachi
Mode	Tx 11a 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 25, 2023
Temperature / Humidity 21 deg. C / 35 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11a 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.72	32.63	16.97	43.42	2.10	57.00	-38.23	-27.0	11.2	129	221	-
Vert.	5725.000	PK	48.10	32.63	16.97	43.42	2.10	56.38	-38.85	-27.0	11.8	142	1	-

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

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

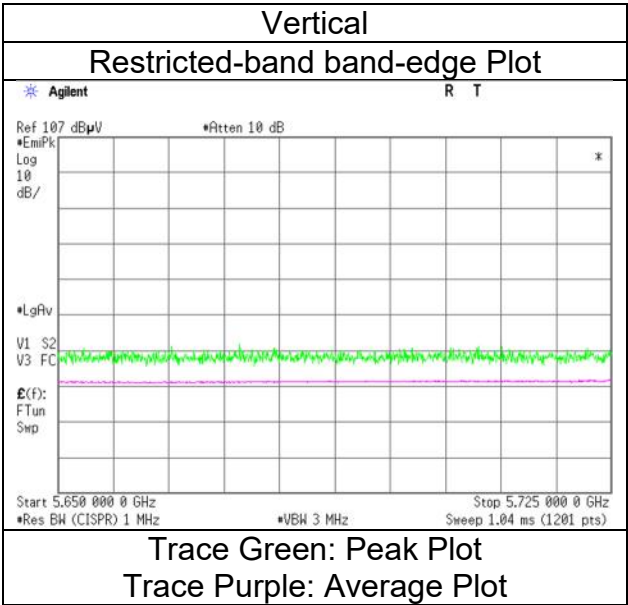
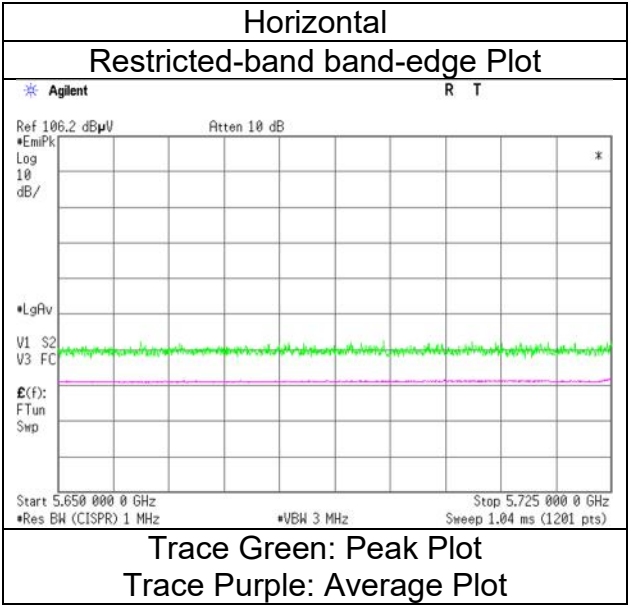
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11a 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11a 5745 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.29	32.44	17.03	43.44	2.10	56.42	-38.81	-27.0	11.8	316	26	-
Hori.	5700.000	PK	48.11	32.56	17.05	43.43	2.10	56.39	-38.84	10.0	48.8	316	26	-
Hori.	5720.000	PK	48.93	32.61	17.06	43.42	2.10	57.28	-37.95	15.6	53.5	316	26	-
Hori.	5723.300	PK	50.92	32.62	17.07	43.42	2.10	59.29	-35.94	23.2	59.1	316	26	-
Hori.	5725.000	PK	49.80	32.63	17.07	43.42	2.10	58.18	-37.05	27.0	64.0	316	26	-
Vert.	5650.000	PK	48.82	32.44	17.03	43.44	2.10	56.95	-38.28	-27.0	11.2	196	353	-
Vert.	5700.000	PK	49.10	32.56	17.05	43.43	2.10	57.38	-37.85	10.0	47.8	196	353	-
Vert.	5720.000	PK	48.64	32.61	17.06	43.42	2.10	56.99	-38.24	15.6	53.8	196	353	-
Vert.	5723.300	PK	50.00	32.62	17.07	43.42	2.10	58.37	-36.86	23.2	60.0	196	353	-
Vert.	5725.000	PK	50.55	32.63	17.07	43.42	2.10	58.93	-36.30	27.0	63.3	196	353	-

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

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

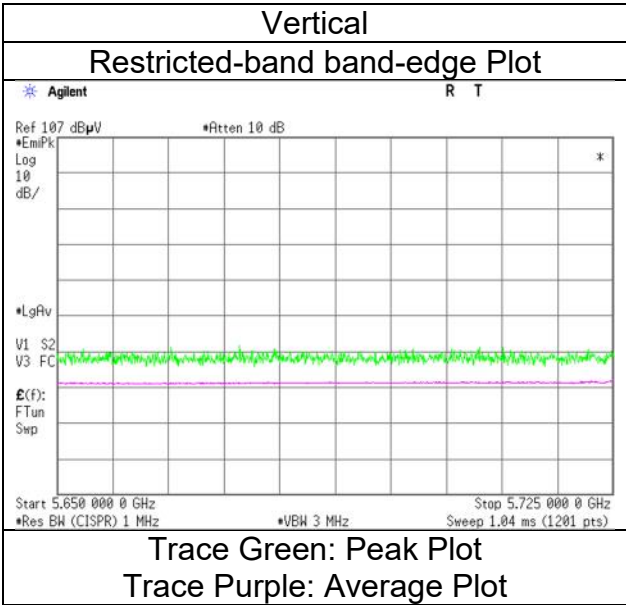
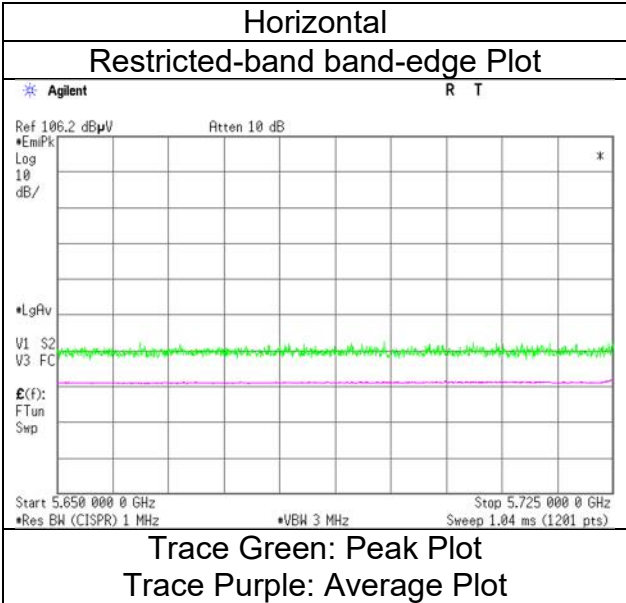
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11a 5745 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11a 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.77	32.94	17.14	43.39	2.10	58.56	-36.67	27.0	63.6	144	21	-
Hori.	5855.000	PK	48.98	32.95	17.14	43.39	2.10	57.78	-37.45	15.6	53.0	144	21	-
Hori.	5875.000	PK	48.35	32.98	17.18	43.39	2.10	57.22	-38.01	10.0	48.0	144	21	-
Hori.	5925.000	PK	48.55	33.06	17.20	43.38	2.10	57.53	-37.70	-27.0	10.7	144	21	-
Vert.	5850.000	PK	52.22	32.94	17.14	43.39	2.10	61.01	-34.22	27.0	61.2	186	354	-
Vert.	5855.000	PK	49.03	32.95	17.14	43.39	2.10	57.83	-37.40	15.6	53.0	186	354	-
Vert.	5875.000	PK	49.77	32.98	17.18	43.39	2.10	58.64	-36.59	10.0	46.5	186	354	-
Vert.	5925.000	PK	49.21	33.06	17.20	43.38	2.10	58.19	-37.04	-27.0	10.0	186	354	-

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

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

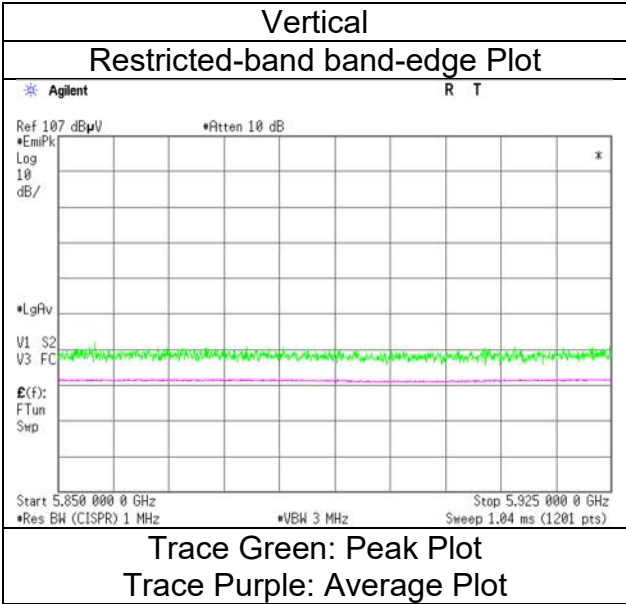
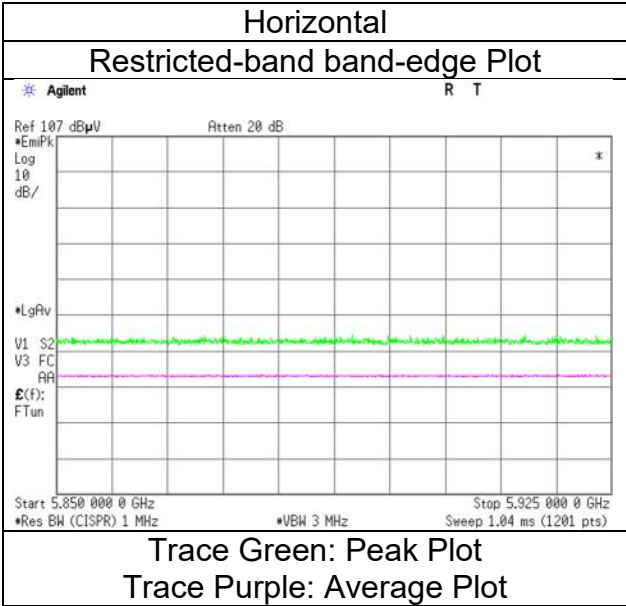
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11a 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 2 WAC 1 SAC 3 WAC 1
Date January 6, 2024 January 10, 2024 December 19, 2023 January 17, 2024
Temperature / Humidity 23 deg. C / 30 % RH 20 deg. C / 35 % RH 23 deg. C / 47 % RH 24 deg. C / 31 % RH
Engineer Makoto Hosaka Miku Ikudome Yosuke Murakami Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz) (18 GHz to 40 GHz)
Mode Tx 11n-20 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	45.24	32.23	17.20	38.73	2.10	58.04	73.9	15.8	129	44	-
Hori.	15540.000	PK	48.11	39.48	11.65	40.53	-9.54	49.17	73.9	24.7	150	0	-
Hori.	5150.000	AV	33.26	32.23	17.20	38.73	2.10	46.06	53.9	7.8	129	44	VBW:200 Hz
Hori.	15540.000	AV	35.27	39.48	11.65	40.53	-9.54	36.33	53.9	17.5	150	0	VBW:200 Hz
Vert.	5150.000	PK	45.56	32.23	17.20	38.73	2.10	58.36	73.9	15.5	113	341	-
Vert.	15540.000	PK	48.31	39.48	11.65	40.53	-9.54	49.37	73.9	24.5	150	0	-
Vert.	5150.000	AV	33.08	32.23	17.20	38.73	2.10	45.88	53.9	8.0	113	341	VBW:200 Hz
Vert.	15540.000	AV	35.17	39.48	11.65	40.53	-9.54	36.23	53.9	17.6	150	0	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6906.600	PK	52.02	35.14	-33.35	-	2.10	55.91	-39.32	-27.0	12.3	118	193	-
Hori.	10360.000	PK	56.60	36.36	9.37	42.84	-9.54	49.95	-45.28	-27.0	18.2	198	206	-
Hori.	31080.000	PK	47.88	43.43	18.62	61.84	-9.54	38.55	-56.68	-27.0	29.6	171	243	-
Hori.	36260.000	PK	49.43	43.80	20.43	62.10	-9.54	42.02	-53.21	-27.0	26.2	150	0	-
Vert.	6906.600	PK	53.43	35.14	-33.35	-	2.10	57.32	-37.91	-27.0	10.9	162	192	-
Vert.	10360.000	PK	57.47	36.36	9.37	42.84	-9.54	50.82	-44.41	-27.0	17.4	149	261	-
Vert.	31080.000	PK	47.85	43.43	18.62	61.84	-9.54	38.52	-56.71	-27.0	29.7	168	221	-
Vert.	36260.000	PK	49.12	43.80	20.43	62.10	-9.54	41.71	-53.52	-27.0	26.5	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

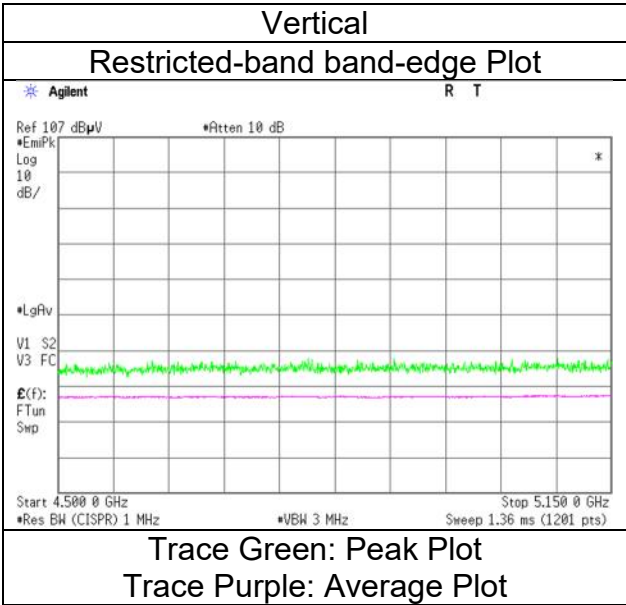
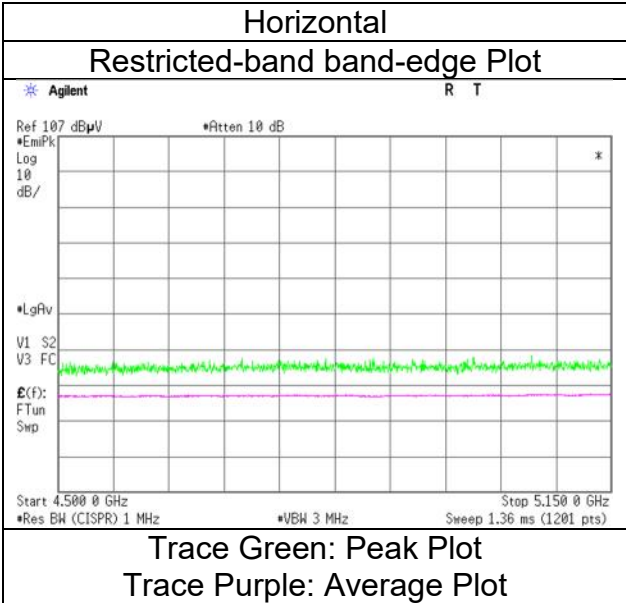
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-20 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 2	WAC 1	SAC 3	WAC 1
Date	January 6, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Hiromasa Sato	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 40 GHz)
Mode	Tx 11n-20 5240 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15720.000	PK	46.58	39.63	11.60	40.56	-9.54	47.71	73.9	26.1	150	0	-
Hori.	15720.000	AV	33.48	39.63	11.60	40.56	-9.54	34.61	53.9	19.2	150	0	VBW:200 Hz, Floor noise
Vert.	15720.000	PK	47.10	39.63	11.60	40.56	-9.54	48.23	73.9	25.6	150	0	-
Vert.	15720.000	AV	35.87	39.63	11.60	40.56	-9.54	37.00	53.9	16.9	150	0	VBW:200 Hz, Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6986.625	PK	52.28	35.60	-33.34	-	2.10	56.64	-38.59	-27.0	11.5	228	115	-
Hori.	10480.000	PK	53.03	36.51	9.40	42.84	-9.54	46.56	-48.67	-27.0	21.6	209	217	-
Vert.	6986.617	PK	52.87	35.60	-33.34	-	2.10	57.23	-38.00	-27.0	11.0	165	191	-
Vert.	10480.000	PK	53.96	36.51	9.40	42.84	-9.54	47.49	-47.74	-27.0	20.7	148	258	-

6.4 GHz to 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 2	WAC 1	SAC 3	WAC 1
Date	January 6, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Hiromasa Sato	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 40 GHz)
Mode	Tx 11n-20 5320 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.62	31.95	17.34	38.83	2.10	58.18	73.9	15.7	151	30	-
Hori.	10640.000	PK	52.99	37.12	9.46	42.86	-9.54	47.17	73.9	26.7	202	205	-
Hori.	15960.000	PK	46.07	40.08	11.53	40.60	-9.54	47.54	73.9	26.3	100	0	-
Hori.	5350.000	AV	33.09	31.95	17.34	38.83	2.10	45.65	53.9	8.2	151	30	VBW: 200 Hz
Hori.	10640.000	AV	39.94	37.12	9.46	42.86	-9.54	34.12	53.9	19.7	202	205	VBW: 200 Hz
Hori.	15960.000	AV	33.88	40.08	11.53	40.60	-9.54	35.35	53.9	18.5	100	0	VBW: 200 Hz, FloorNoise
Vert.	5350.000	PK	45.86	31.95	17.34	38.83	2.10	58.42	73.9	15.4	147	334	-
Vert.	10640.000	PK	52.70	37.12	9.46	42.86	-9.54	46.88	73.9	27.0	136	239	-
Vert.	15960.000	PK	46.40	40.08	11.53	40.60	-9.54	47.87	73.9	26.0	100	0	-
Vert.	5350.000	AV	33.01	31.95	17.34	38.83	2.10	45.57	53.9	8.3	147	334	VBW: 200 Hz
Vert.	10640.000	AV	40.22	37.12	9.46	42.86	-9.54	34.40	53.9	19.5	136	239	VBW: 200 Hz
Vert.	15960.000	AV	33.81	40.08	11.53	40.60	-9.54	35.28	53.9	18.6	100	0	VBW: 200 Hz, FloorNoise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7093.266	PK	53.11	36.07	-33.21	0.00	2.10	58.07	-37.16	-27.0	10.1	176	84	-
Vert.	7093.258	PK	54.40	36.07	-33.21	0.00	2.10	59.36	-35.87	-27.0	8.8	148	106	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

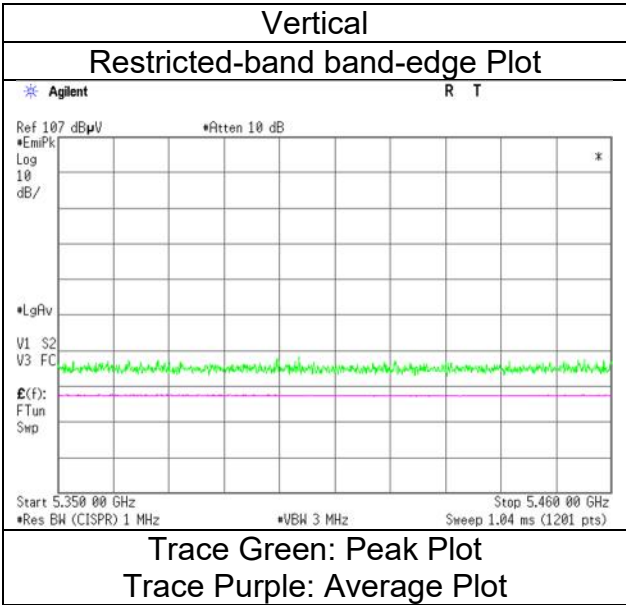
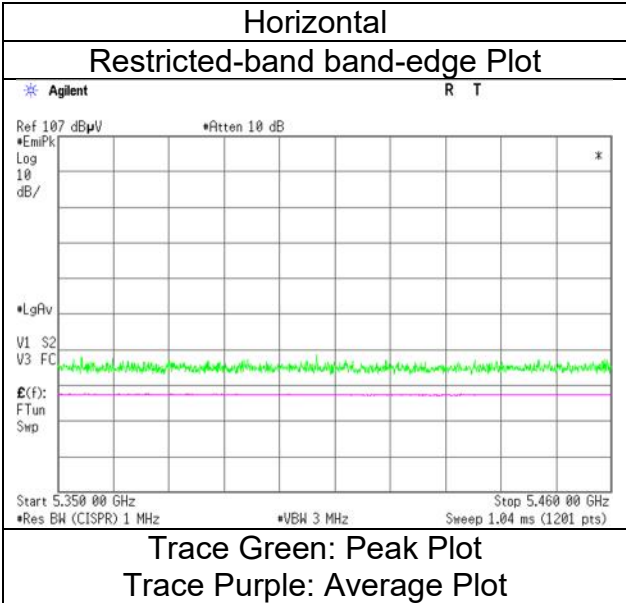
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-20 5320 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 2	WAC 1	SAC 3	WAC 1
Date	January 6, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Yosuke Murakami	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 40 GHz)
Mode	Tx 11n-20 5500 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	44.87	32.14	17.43	38.89	2.10	57.65	73.9	16.2	116	38	-
Hori.	11000.000	PK	49.61	37.58	9.59	42.90	-9.54	44.34	73.9	29.5	186	212	-
Hori.	5460.000	AV	33.18	32.14	17.43	38.89	2.10	45.96	53.9	7.9	116	38	VBW:200 Hz
Hori.	11000.000	AV	36.88	37.58	9.59	42.90	-9.54	31.61	53.9	22.2	186	212	VBW:200 Hz
Vert.	5460.000	PK	45.07	32.14	17.43	38.89	2.10	57.85	73.9	16.0	141	341	-
Vert.	11000.000	PK	49.80	37.58	9.59	42.90	-9.54	44.53	73.9	29.3	183	263	-
Vert.	5460.000	AV	33.18	32.14	17.43	38.89	2.10	45.96	53.9	7.9	141	341	VBW:200 Hz
Vert.	11000.000	AV	36.92	37.58	9.59	42.90	-9.54	31.65	53.9	22.2	183	263	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	45.55	32.15	17.43	38.89	2.10	58.34	-36.89	-27.0	9.8	116	38	-
Hori.	6600.002	PK	50.41	34.30	-33.36	-	2.10	53.45	-41.78	-27.0	14.7	174	26	-
Hori.	16500.000	PK	45.96	40.19	12.29	40.65	-9.54	48.25	-46.98	-27.0	19.9	150	0	-
Vert.	5470.000	PK	45.67	32.15	17.43	38.89	2.10	58.46	-36.77	-27.0	9.7	141	341	-
Vert.	6600.001	PK	50.66	34.30	-33.36	-	2.10	53.70	-41.53	-27.0	14.5	149	2	-
Vert.	16500.000	PK	46.06	40.19	12.29	40.65	-9.54	48.35	-46.88	-27.0	19.8	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

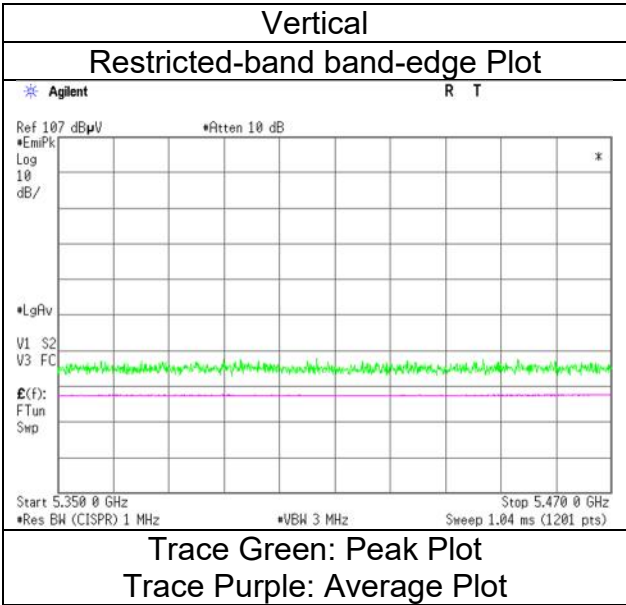
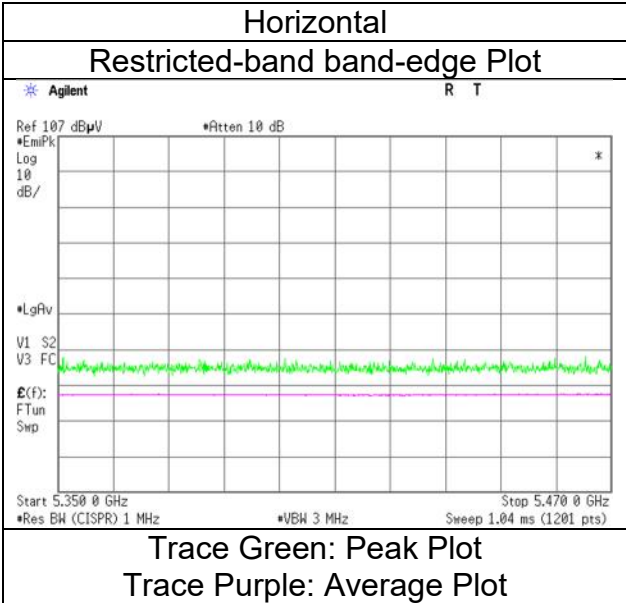
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-20 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 2 WAC 1 SAC 3 WAC 1
Date January 6, 2024 January 10, 2024 December 20, 2023 January 17, 2024
Temperature / Humidity 23 deg. C / 30 % RH 20 deg. C / 35 % RH 21 deg. C / 26 % RH 24 deg. C / 31 % RH
Engineer Makoto Hosaka Miku Ikudome Yosuke Murakami Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz) (18 GHz to 40 GHz)
Mode Tx 11n-20 5580 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11160.000	PK	47.95	37.72	9.68	42.80	-9.54	43.01	73.9	30.8	192	199	-
Hori.	11160.000	AV	35.68	37.72	9.68	42.80	-9.54	30.74	53.9	23.1	192	199	VBW:200 Hz
Vert.	11160.000	PK	47.15	37.72	9.68	42.80	-9.54	42.21	73.9	31.6	184	279	-
Vert.	11160.000	AV	35.45	37.72	9.68	42.80	-9.54	30.51	53.9	23.3	184	279	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6696.000	PK	49.49	34.33	-33.36	-	2.10	52.56	-42.67	-27.0	15.6	162	86	-
Hori.	16740.000	PK	46.98	39.61	12.39	40.57	-9.54	48.87	-46.36	-27.0	19.3	150	0	-
Vert.	6695.996	PK	49.82	34.33	-33.36	-	2.10	52.89	-42.34	-27.0	15.3	146	196	-
Vert.	16740.000	PK	47.21	39.61	12.39	40.57	-9.54	49.10	-46.13	-27.0	19.1	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 2	WAC 1	SAC 3	WAC 1
Date	January 6, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Yosuke Murakami	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 40 GHz)
Mode	Tx 11n-20 5700 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11400.000	PK	46.70	38.26	9.80	42.64	-9.54	42.58	73.9	31.3	194	251	-
Hori.	11400.000	AV	35.37	38.26	9.80	42.64	-9.54	31.25	53.9	22.6	194	251	VBW:200 Hz
Vert.	11400.000	PK	47.07	38.26	9.80	42.64	-9.54	42.95	73.9	30.9	181	250	-
Vert.	11400.000	AV	35.61	38.26	9.80	42.64	-9.54	31.49	53.9	22.4	181	250	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.05	32.57	17.61	38.95	2.10	59.38	-35.85	-27.0	8.8	149	28	-
Hori.	6840.000	PK	48.79	34.75	-33.34	-	2.10	52.30	-42.93	-27.0	15.9	113	90	-
Hori.	17100.000	PK	45.30	39.85	12.51	40.42	-9.54	47.70	-47.53	-27.0	20.5	150	0	-
Vert.	5725.000	PK	45.82	32.57	17.61	38.95	2.10	59.15	-36.08	-27.0	9.0	177	348	-
Vert.	6840.000	PK	49.38	34.75	-33.34	-	2.10	52.89	-42.34	-27.0	15.3	142	195	-
Vert.	17100.000	PK	45.19	39.85	12.51	40.42	-9.54	47.59	-47.64	-27.0	20.6	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

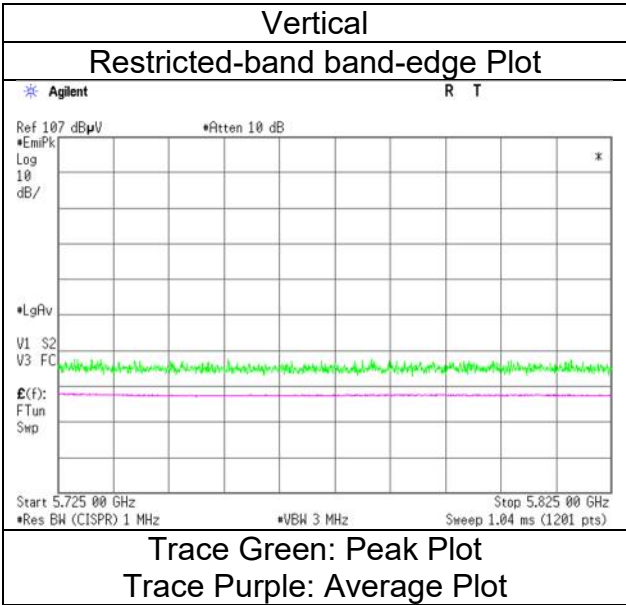
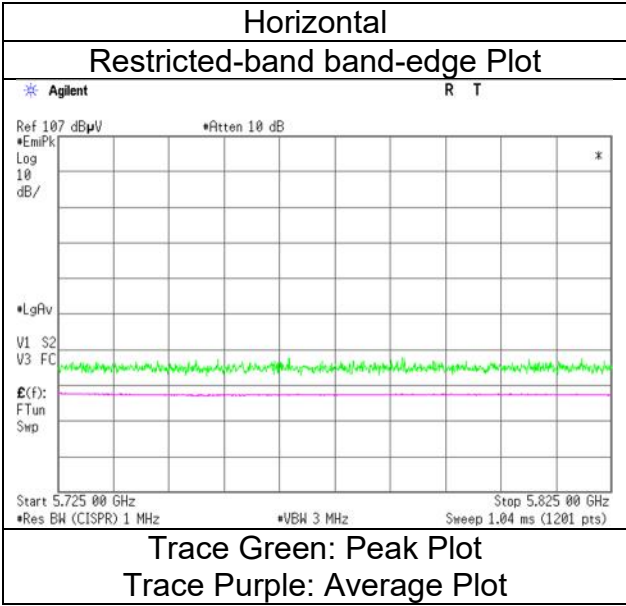
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-20 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 2	WAC 1	SAC 3	WAC 1
Date	January 6, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Yosuke Murakami	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 40 GHz)
Mode	Tx 11n-20 5745 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11490.000	PK	48.74	38.32	9.86	42.59	-9.54	44.79	73.9	29.1	199	215	-
Hori.	11490.000	AV	35.80	38.32	9.86	42.59	-9.54	31.85	53.9	22.0	199	215	VBW:200 Hz
Vert.	11490.000	PK	47.07	38.32	9.86	42.59	-9.54	43.12	73.9	30.7	169	257	-
Vert.	11490.000	AV	35.62	38.32	9.86	42.59	-9.54	31.67	53.9	22.2	169	257	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	44.71	32.35	17.55	38.94	2.10	57.77	-37.46	-27.0	10.4	177	33	-
Hori.	5700.000	PK	45.27	32.48	17.59	38.95	2.10	58.49	-36.74	10.0	46.7	177	33	-
Hori.	5720.000	PK	44.81	32.55	17.60	38.95	2.10	58.11	-37.12	15.6	52.7	177	33	-
Hori.	5725.000	PK	46.02	32.57	17.61	38.95	2.10	59.35	-35.88	27.0	62.8	177	33	-
Hori.	6894.000	PK	48.78	35.05	-33.35	-	2.10	52.58	-42.65	-27.0	15.6	122	88	-
Hori.	17235.000	PK	45.58	40.07	12.53	40.33	-9.54	48.31	-46.92	-27.0	19.9	150	0	-
Vert.	5650.000	PK	45.14	32.35	17.55	38.94	2.10	58.20	-37.03	-27.0	10.0	139	341	-
Vert.	5700.000	PK	44.93	32.48	17.59	38.95	2.10	58.15	-37.08	10.0	47.0	100	341	-
Vert.	5720.000	PK	45.75	32.55	17.60	38.95	2.10	59.05	-36.18	15.6	51.7	139	341	-
Vert.	5725.000	PK	47.03	32.57	17.61	38.95	2.10	60.36	-34.87	27.0	61.8	139	341	-
Vert.	6894.000	PK	49.04	35.05	-33.35	-	2.10	52.84	-42.39	-27.0	15.3	160	114	-
Vert.	17235.000	PK	45.60	40.07	12.53	40.33	-9.54	48.33	-46.90	-27.0	19.9	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

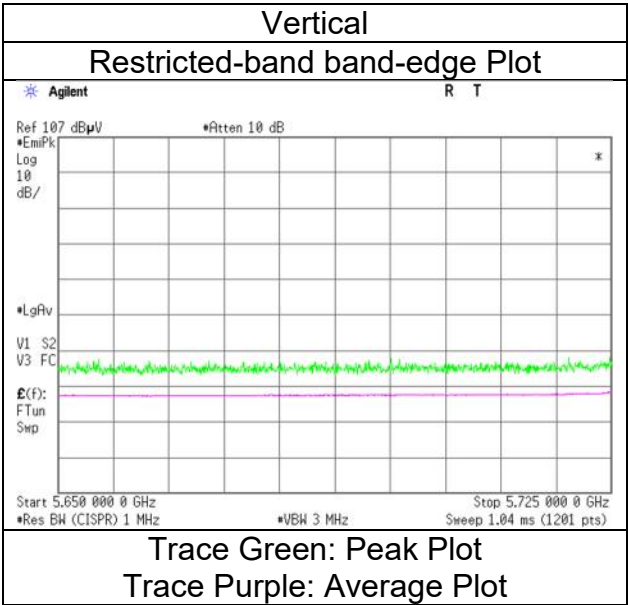
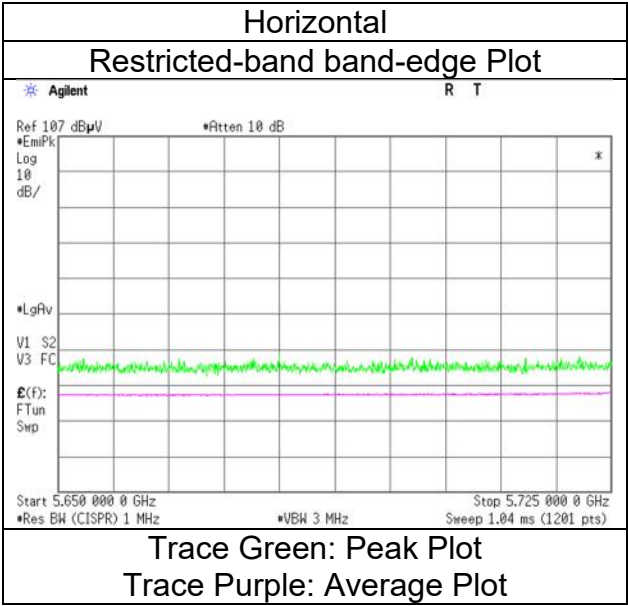
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-20 5745 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 2 WAC 1 SAC 3 WAC 1
Date January 6, 2024 January 10, 2024 December 20, 2023 January 17, 2024
Temperature / Humidity 23 deg. C / 30 % RH 20 deg. C / 35 % RH 21 deg. C / 26 % RH 24 deg. C / 31 % RH
Engineer Makoto Hosaka Miku Ikudome Yosuke Murakami Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz) (18 GHz to 40 GHz)
Mode Tx 11n-20 5785 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11570.000	PK	49.68	38.33	9.89	42.55	-9.54	45.81	73.9	28.0	192	288	-
Hori.	11570.000	AV	37.51	38.33	9.89	42.55	-9.54	33.64	53.9	20.2	192	288	VBW:200 Hz
Vert.	11570.000	PK	49.16	38.33	9.89	42.55	-9.54	45.29	73.9	28.6	184	259	-
Vert.	11570.000	AV	37.45	38.33	9.89	42.55	-9.54	33.58	53.9	20.3	184	259	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6942.000	PK	48.69	35.34	-33.34	-	2.10	52.79	-42.44	-27.0	15.4	139	93	-
Hori.	17355.000	PK	46.04	40.18	12.55	40.26	-9.54	48.97	-46.26	-27.0	19.2	150	0	-
Vert.	6942.000	PK	49.17	35.34	-33.34	-	2.10	53.27	-41.96	-27.0	14.9	178	114	-
Vert.	17355.000	PK	46.36	40.18	12.55	40.26	-9.54	49.29	-45.94	-27.0	18.9	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 2	WAC 1	SAC 3	WAC 1
Date	January 6, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Yosuke Murakami	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 40 GHz)
Mode	Tx 11n-20 5825 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	50.79	38.33	9.94	42.51	-9.54	47.01	73.9	26.8	184	283	-
Hori.	11650.000	AV	38.03	38.33	9.94	42.51	-9.54	34.25	53.9	19.6	184	283	VBW:200 Hz
Vert.	11650.000	PK	49.84	38.33	9.94	42.51	-9.54	46.06	73.9	27.8	179	249	-
Vert.	11650.000	AV	37.90	38.33	9.94	42.51	-9.54	34.12	53.9	19.7	179	249	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	46.18	32.90	17.71	38.97	2.10	59.92	-35.31	27.0	62.3	149	26	-
Hori.	5855.000	PK	46.03	32.91	17.71	38.97	2.10	59.78	-35.45	15.6	51.0	149	26	-
Hori.	5875.000	PK	45.51	32.96	17.73	38.98	2.10	59.32	-35.91	10.0	45.9	149	26	-
Hori.	5925.000	PK	44.94	33.04	17.76	38.99	2.10	58.85	-36.38	-27.0	9.3	149	26	-
Hori.	7766.650	PK	51.44	36.28	-32.55	-	2.10	57.27	-37.96	-27.0	10.9	118	79	-
Hori.	17475.000	PK	46.08	40.28	12.57	40.18	-9.54	49.21	-46.02	-27.0	19.0	150	0	-
Vert.	5850.000	PK	45.70	32.90	17.71	38.97	2.10	59.44	-35.79	27.0	62.7	153	347	-
Vert.	5855.000	PK	45.59	32.91	17.71	38.97	2.10	59.34	-35.89	15.6	51.4	153	347	-
Vert.	5875.000	PK	45.16	32.96	17.73	38.98	2.10	58.97	-36.26	10.0	46.2	153	347	-
Vert.	5925.000	PK	45.34	33.04	17.76	38.99	2.10	59.25	-35.98	-27.0	8.9	153	347	-
Vert.	7766.512	PK	50.82	36.28	-32.42	-	2.10	56.78	-38.45	-27.0	11.4	176	113	-
Vert.	17475.000	PK	45.70	40.28	12.57	40.18	-9.54	48.83	-46.40	-27.0	19.4	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

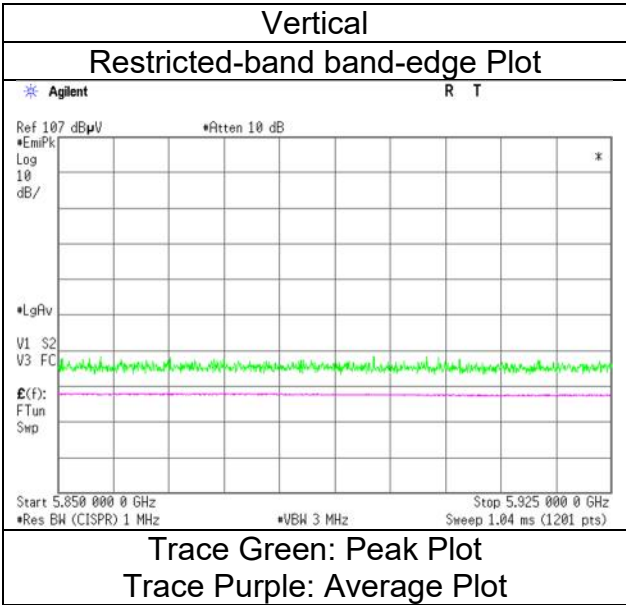
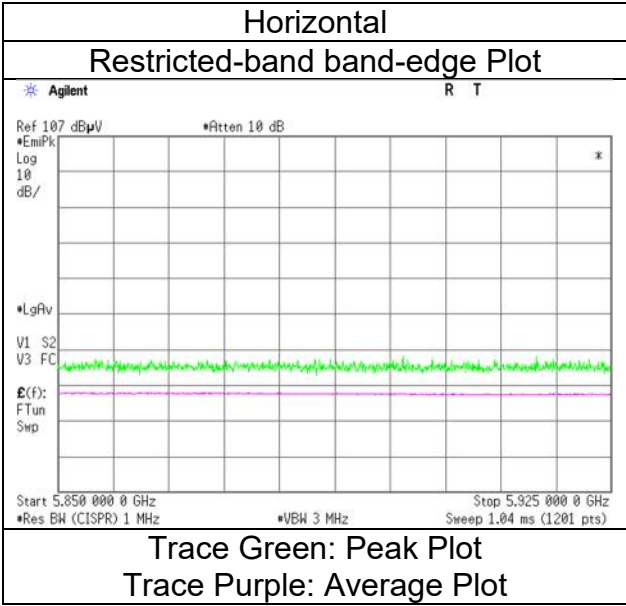
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-20 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.51	32.16	16.71	43.07	2.10	56.41	73.9	17.4	169	44	-
Hori.	5150.000	AV	37.05	32.16	16.71	43.07	2.10	44.95	53.9	8.9	169	44	VBW:200 Hz
Vert.	5150.000	PK	49.26	32.16	16.71	43.07	2.10	57.16	73.9	16.7	158	342	-
Vert.	5150.000	AV	36.88	32.16	16.71	43.07	2.10	44.78	53.9	9.1	158	342	VBW:200 Hz

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

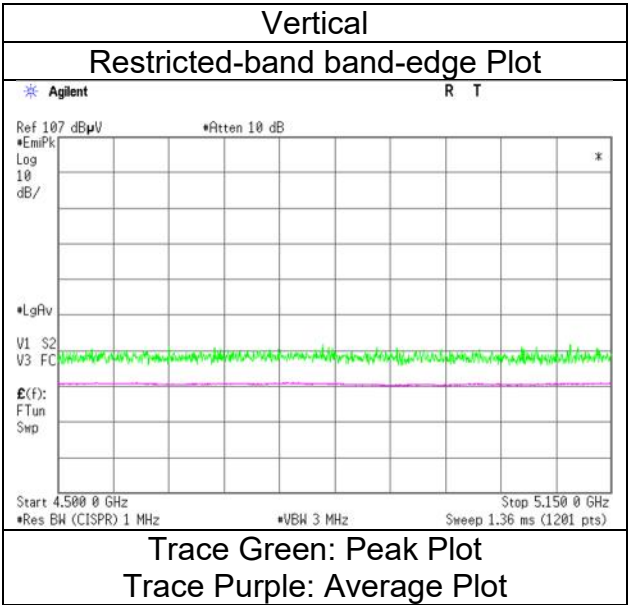
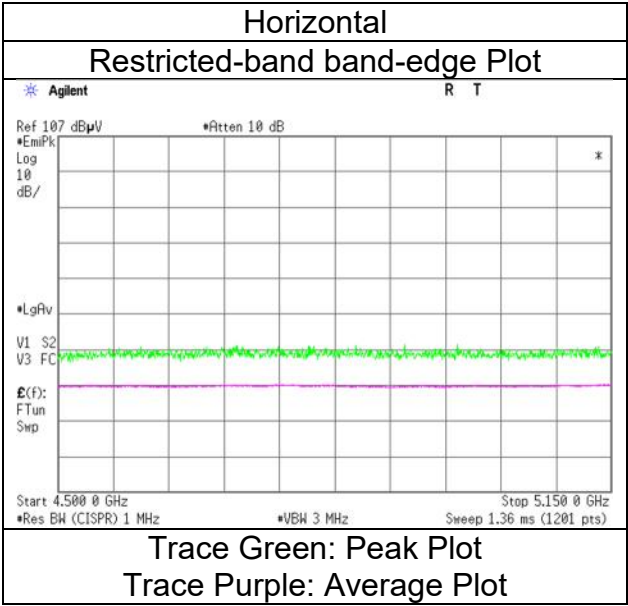
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-20 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 25, 2023
Temperature / Humidity 21 deg. C / 35 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.83	31.98	16.83	43.30	2.10	59.44	73.9	14.4	367	127	-
Hori.	5350.000	AV	38.29	31.98	16.83	43.30	2.10	45.90	53.9	8.0	367	127	VBW:200 Hz
Vert.	5350.000	PK	49.36	31.98	16.83	43.30	2.10	56.97	73.9	16.9	224	1	-
Vert.	5350.000	AV	37.88	31.98	16.83	43.30	2.10	45.49	53.9	8.4	224	1	VBW:200 Hz

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

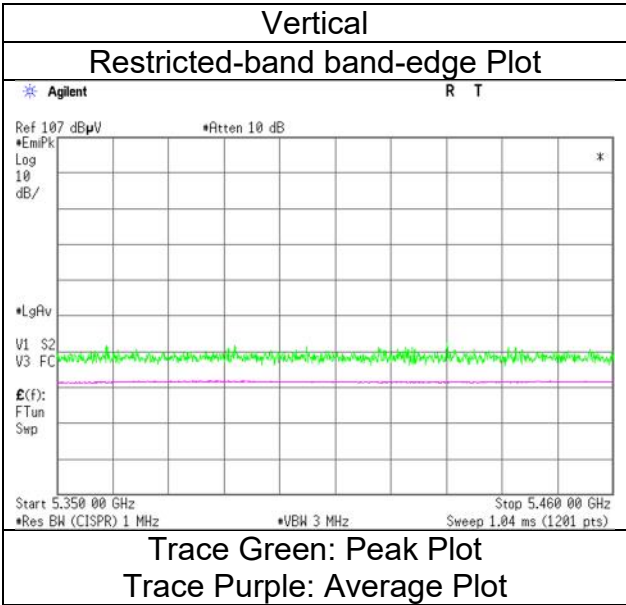
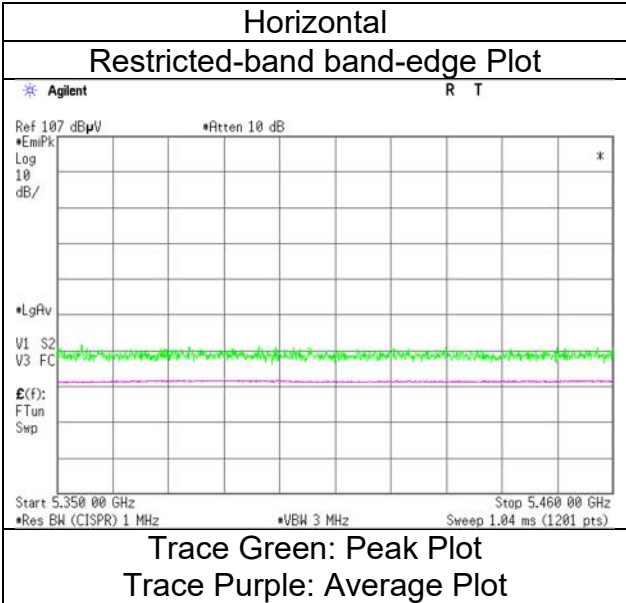
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-20 5320 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date December 25, 2023
Temperature / Humidity 21 deg. C / 35 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.25	32.24	16.91	43.42	2.10	58.08	73.9	15.8	355	216	-
Hori.	5460.000	AV	38.23	32.24	16.91	43.42	2.10	46.06	53.9	7.8	355	216	VBW:200 Hz
Vert.	5460.000	PK	50.37	32.24	16.91	43.42	2.10	58.20	73.9	15.7	108	357	-
Vert.	5460.000	AV	37.25	32.24	16.91	43.42	2.10	45.08	53.9	8.8	108	357	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.31	32.25	16.92	43.44	2.10	58.14	-37.09	-27.0	10.0	355	216	-
Vert.	5470.000	PK	50.52	32.25	16.92	43.44	2.10	58.35	-36.88	-27.0	9.8	108	357	-

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

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

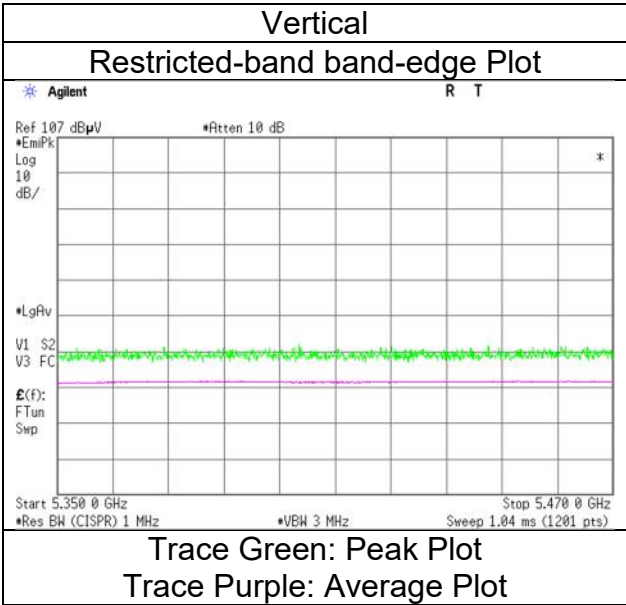
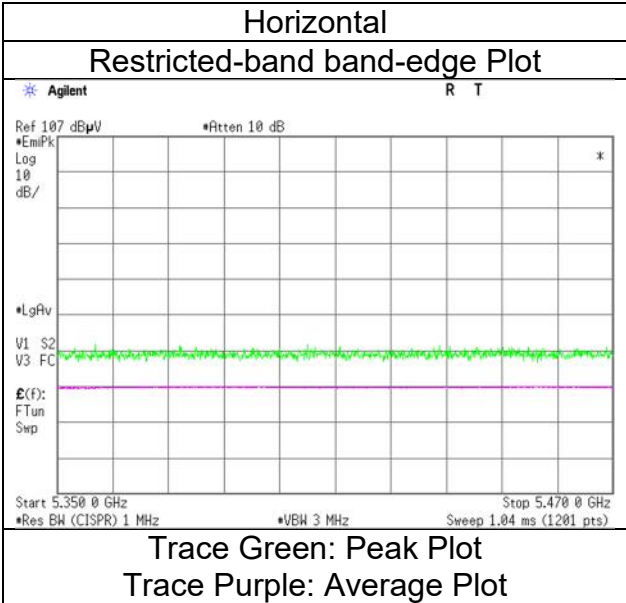
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-20 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	51.25	32.63	17.07	43.42	2.10	59.63	-35.60	-27.0	8.6	344	23	-
Vert.	5725.000	PK	50.00	32.63	17.07	43.42	2.10	58.38	-36.85	-27.0	9.8	217	2	-

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

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

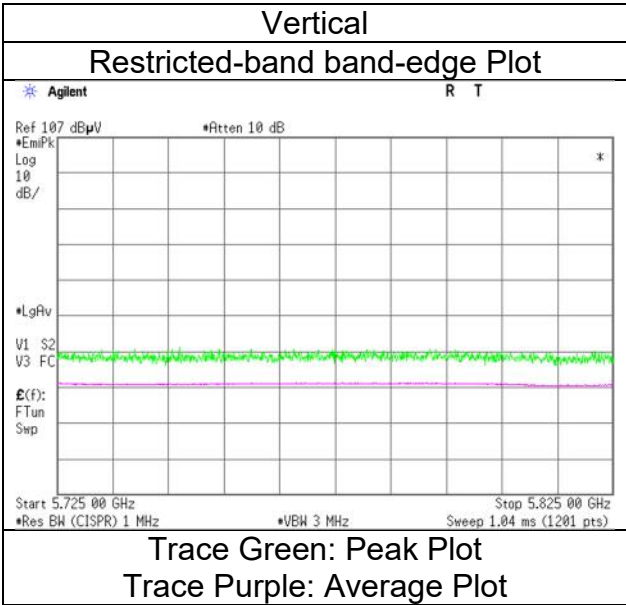
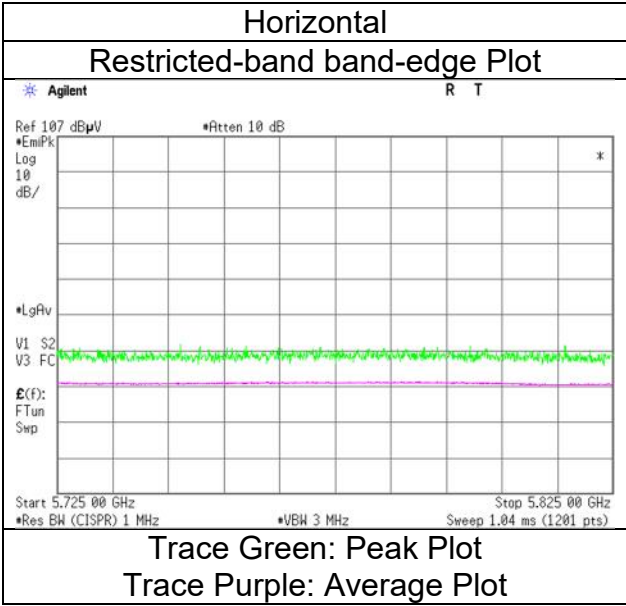
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-20 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5745 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.18	32.44	17.03	43.44	2.10	57.31	-37.92	-27.0	10.9	362	121	-
Hori.	5700.000	PK	49.22	32.56	17.05	43.43	2.10	57.50	-37.73	10.0	47.7	362	121	-
Hori.	5720.000	PK	49.12	32.61	17.06	43.42	2.10	57.47	-37.76	15.6	53.3	362	121	-
Hori.	5725.000	PK	49.32	32.63	17.07	43.42	2.10	57.70	-37.53	27.0	64.5	362	121	-
Vert.	5650.000	PK	48.85	32.44	17.03	43.44	2.10	56.98	-38.25	-27.0	11.2	165	206	-
Vert.	5700.000	PK	48.77	32.56	17.05	43.43	2.10	57.05	-38.18	10.0	48.1	165	206	-
Vert.	5720.000	PK	49.59	32.61	17.06	43.42	2.10	57.94	-37.29	15.6	52.8	165	206	-
Vert.	5725.000	PK	49.36	32.63	17.07	43.42	2.10	57.74	-37.49	27.0	64.4	165	206	-

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

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

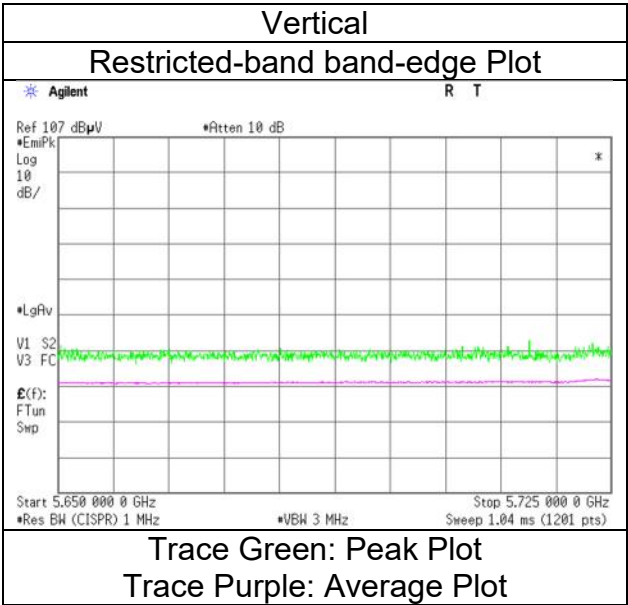
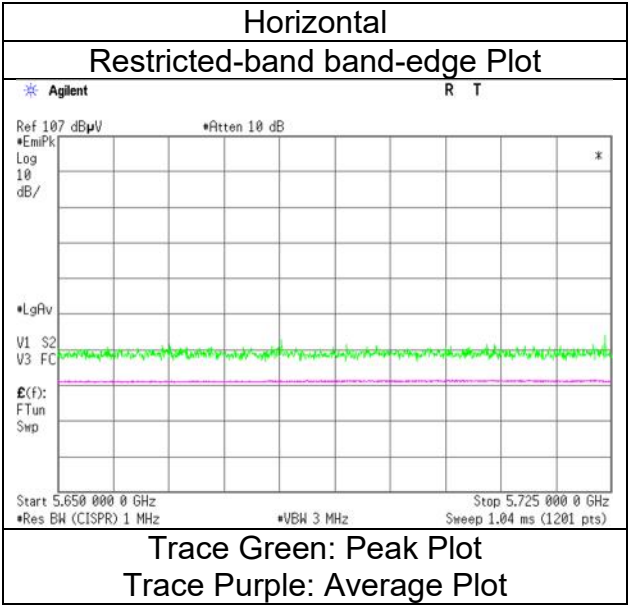
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-20 5745 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	51.25	32.94	17.14	43.39	2.10	60.04	-35.19	27.0	62.1	134	67	-
Hori.	5855.000	PK	49.78	32.95	17.14	43.39	2.10	58.58	-36.65	15.6	52.2	134	67	-
Hori.	5875.000	PK	49.46	32.98	17.18	43.39	2.10	58.33	-36.90	10.0	46.9	134	67	-
Hori.	5925.000	PK	49.01	33.06	17.20	43.38	2.10	57.99	-37.24	-27.0	10.2	134	67	-
Vert.	5850.000	PK	49.52	32.94	17.05	43.39	2.10	58.22	-37.01	27.0	64.0	113	225	-
Vert.	5855.000	PK	48.49	32.95	17.05	43.39	2.10	57.20	-38.03	15.6	53.6	113	225	-
Vert.	5875.000	PK	48.65	32.98	17.08	43.39	2.10	57.42	-37.81	10.0	47.8	113	225	-
Vert.	5925.000	PK	48.99	33.06	17.10	43.38	2.10	57.87	-37.36	-27.0	10.3	113	225	-

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

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

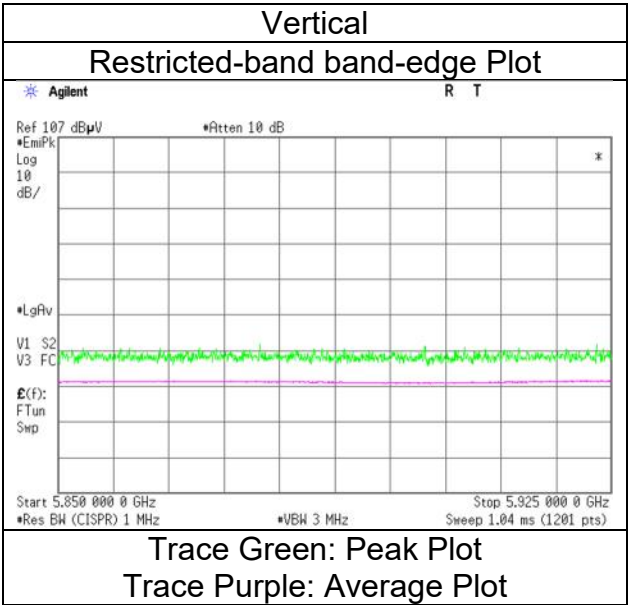
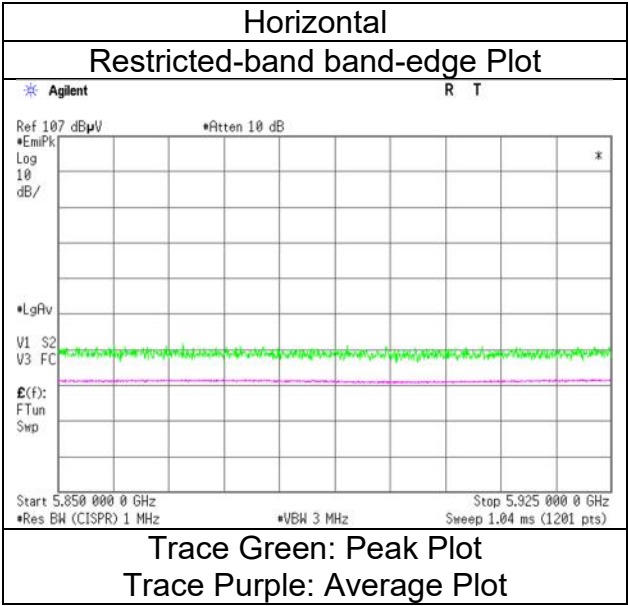
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 25, 2023
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-20 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 WAC1 WAC1 WAC1
Date March 7, 2024 March 8, 2024 December 20, 2023
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.62	31.86	-24.90	-	2.10	57.68	73.9	16.2	210	53	-
Hori.	15540.000	PK	46.46	39.48	11.65	40.53	-9.54	47.52	73.9	26.3	150	0	-
Hori.	5150.000	AV	35.37	31.86	-24.90	-	2.10	44.43	53.9	9.4	210	53	VBW: 200 Hz
Hori.	15540.000	AV	35.39	39.48	11.65	40.53	-9.54	36.45	53.9	17.4	150	0	VBW: 200 Hz, Floor noise
Vert.	5150.000	PK	48.74	31.86	-24.90	-	2.10	57.80	73.9	16.1	134	205	-
Vert.	15540.000	PK	46.55	39.48	11.65	40.53	-9.54	47.61	73.9	26.2	150	0	-
Vert.	5150.000	AV	34.65	31.86	-24.90	-	2.10	43.71	53.9	10.1	134	205	VBW: 200 Hz
Vert.	15540.000	AV	35.28	39.48	11.65	40.53	-9.54	36.34	53.9	17.5	150	0	VBW: 200 Hz, Floor noise

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6906.598	PK	53.60	35.14	-32.62	-	2.10	58.22	-37.01	-27.0	10.0	177	67	-
Hori.	10360.000	PK	57.93	36.36	9.37	42.84	-9.54	51.28	-43.95	-27.0	16.9	203	203	-
Vert.	6906.598	PK	52.80	35.14	-32.62	-	2.10	57.42	-37.81	-27.0	10.8	150	4	-
Vert.	10360.000	PK	57.73	36.36	9.37	42.84	-9.54	51.08	-44.15	-27.0	17.1	208	246	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

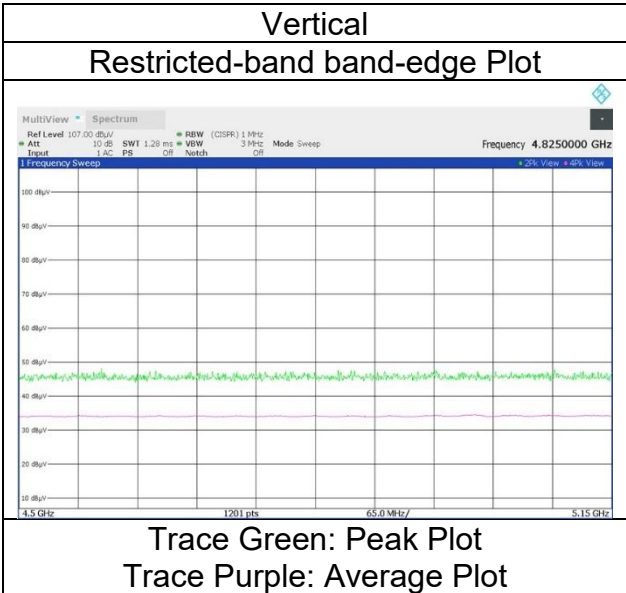
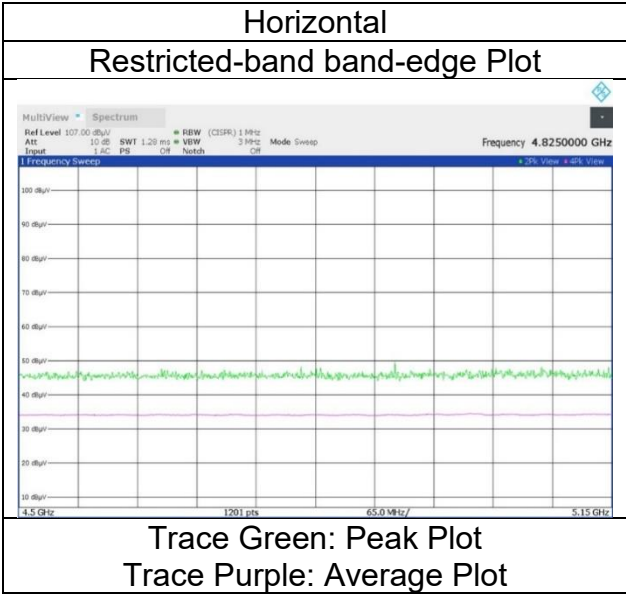
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 7, 2024
Temperature / Humidity	22 deg. C / 30 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20(OFDM) 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 WAC1 WAC1 WAC1
Date March 7, 2024 March 8, 2024 December 20, 2023
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami
 (1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5240 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15720.000	PK	47.48	39.63	11.60	40.56	-9.54	48.61	73.9	25.2	150	0	
Hori.	15720.000	AV	34.98	39.63	11.60	40.56	-9.54	36.11	53.9	17.7	150	0	VBW: 200 Hz, Floor noise
Vert.	15720.000	PK	47.69	39.63	11.60	40.56	-9.54	48.82	73.9	25.0	150	0	
Vert.	15720.000	AV	35.07	39.63	11.60	40.56	-9.54	36.20	53.9	17.7	150	0	VBW: 200 Hz, Floor noise

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6986.367	PK	53.66	35.60	-32.61	-	2.10	58.75	-36.48	-27.0	9.4	124	70	-
Hori.	10480.000	PK	54.61	36.51	9.40	42.84	-9.54	48.14	-47.09	-27.0	20.0	203	204	-
Vert.	6986.367	PK	53.39	35.60	-32.61	-	2.10	58.48	-36.75	-27.0	9.7	105	113	-
Vert.	10480.000	PK	54.74	36.51	9.40	42.84	-9.54	48.27	-46.96	-27.0	19.9	198	237	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 7, 2024 March 8, 2024 December 20, 2023
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.00	31.58	-24.65	-	2.10	59.03	73.9	14.8	112	38	-
Hori.	10640.000	PK	52.06	37.12	9.46	42.86	-9.54	46.24	73.9	27.6	201	225	-
Hori.	15960.000	PK	45.98	40.08	11.53	40.60	-9.54	47.45	73.9	26.4	150	0	-
Hori.	5350.000	AV	34.15	31.58	-24.65	-	2.10	43.18	53.9	10.7	112	38	VBW: 200 Hz
Hori.	10640.000	AV	39.33	37.12	9.46	42.86	-9.54	33.51	53.9	20.3	201	225	VBW: 200 Hz
Hori.	15960.000	AV	33.99	40.08	11.53	40.60	-9.54	35.46	53.9	18.4	150	0	VBW: 200 Hz, Floor noise
Vert.	5350.000	PK	50.01	31.58	-24.65	-	2.10	59.04	73.9	14.8	148	216	-
Vert.	10640.000	PK	53.00	37.12	9.46	42.86	-9.54	47.18	73.9	26.7	203	240	-
Vert.	15960.000	PK	46.25	40.08	11.53	40.60	-9.54	47.72	73.9	26.1	150	0	-
Vert.	5350.000	AV	34.36	31.58	-24.65	-	2.10	43.39	53.9	10.5	148	216	VBW: 200 Hz
Vert.	10640.000	AV	40.45	37.12	9.46	42.86	-9.54	34.63	53.9	19.2	203	240	VBW: 200 Hz
Vert.	15960.000	AV	33.97	40.08	11.53	40.60	-9.54	35.44	53.9	18.4	150	0	VBW: 200 Hz, Floor noise

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7092.994	PK	54.08	36.07	-32.47	-	2.10	59.78	-35.45	-27.0	8.4	105	68	-
Vert.	7092.994	PK	54.16	36.07	-32.47	-	2.10	59.86	-35.37	-27.0	8.3	175	81	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

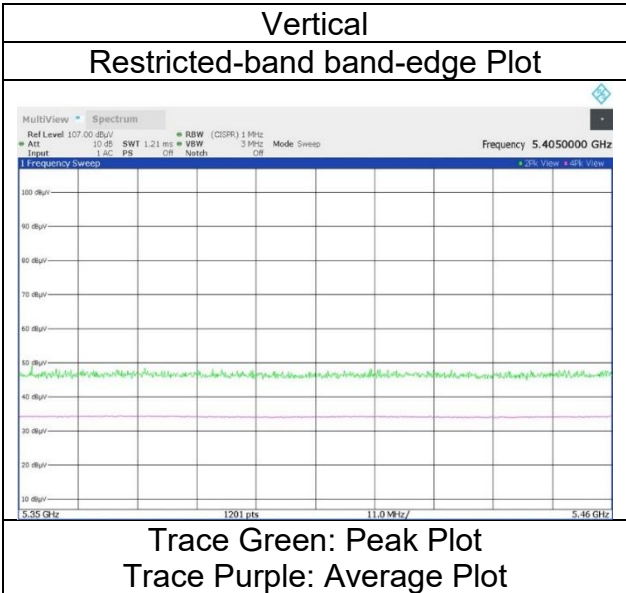
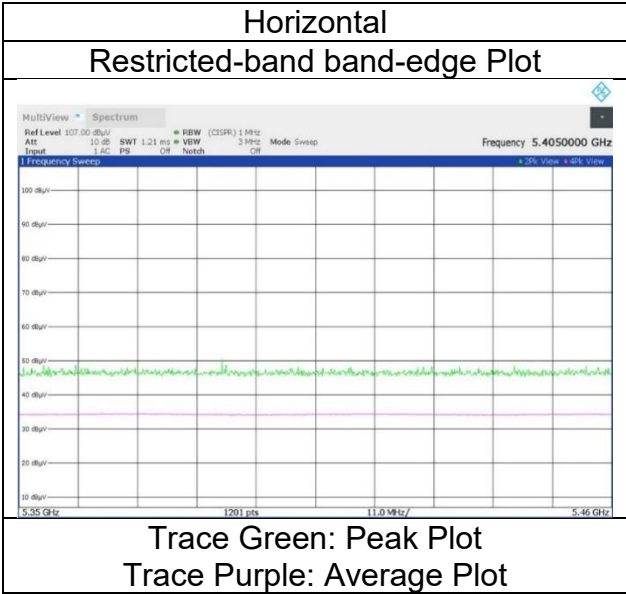
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 7, 2024
Temperature / Humidity	22 deg. C / 30 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20(OFDM) 5320 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 WAC1 WAC1 WAC1
Date March 7, 2024 March 8, 2024 December 20, 2023
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.25	31.78	-24.51	-	2.10	57.62	73.9	16.2	203	35	-
Hori.	7333.333	PK	49.37	36.28	-32.10	-	2.10	55.65	73.9	18.2	100	59	-
Hori.	11000.000	PK	49.52	37.58	9.59	42.90	-9.54	44.25	73.9	29.6	189	209	-
Hori.	5460.000	AV	34.46	31.78	-24.51	-	2.10	43.83	53.9	10.0	203	35	VBW:200 Hz
Hori.	11000.000	AV	37.38	37.58	9.59	42.90	-9.54	32.11	53.9	21.7	189	209	VBW:200 Hz
Vert.	5460.000	PK	49.27	31.78	-24.51	-	2.10	58.64	73.9	15.2	148	217	-
Vert.	7333.333	PK	49.87	36.28	-32.10	-	2.10	56.15	73.9	17.7	152	190	-
Vert.	11000.000	PK	48.94	37.58	9.59	42.90	-9.54	43.67	73.9	30.2	195	245	-
Vert.	5460.000	AV	34.40	31.78	-24.51	-	2.10	43.77	53.9	10.1	148	217	VBW:200 Hz
Vert.	11000.000	AV	36.69	37.58	9.59	42.90	-9.54	31.42	53.9	22.4	195	245	VBW:200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.19	31.79	-24.50	-	2.10	57.58	-37.65	-27.0	10.6	203	35	-
Hori.	6599.943	PK	50.72	34.30	-32.65	-	2.10	54.47	-40.76	-27.0	13.7	149	62	-
Hori.	16500.000	PK	47.07	40.19	12.29	40.65	-9.54	49.36	-45.87	-27.0	18.8	150	0	-
Vert.	5470.000	PK	48.78	31.79	-24.50	-	2.10	58.17	-37.06	-27.0	10.0	148	217	-
Vert.	6599.943	PK	51.81	34.30	-32.65	-	2.10	55.56	-39.67	-27.0	12.6	173	194	-
Vert.	16500.000	PK	47.23	40.19	12.29	40.65	-9.54	49.52	-45.71	-27.0	18.7	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

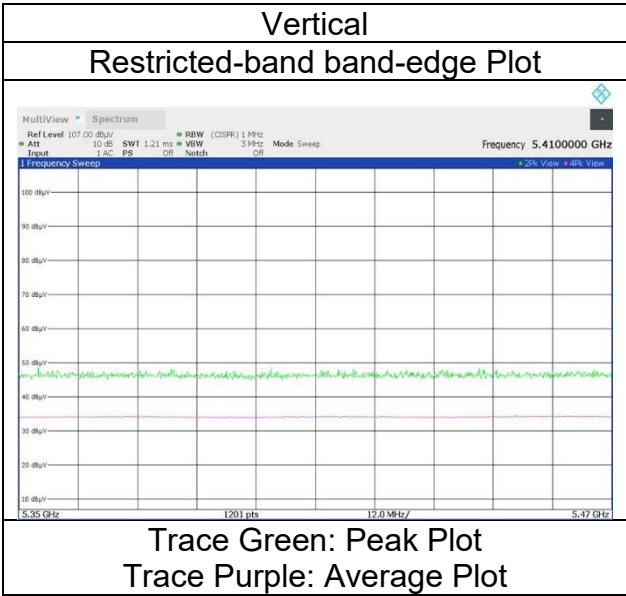
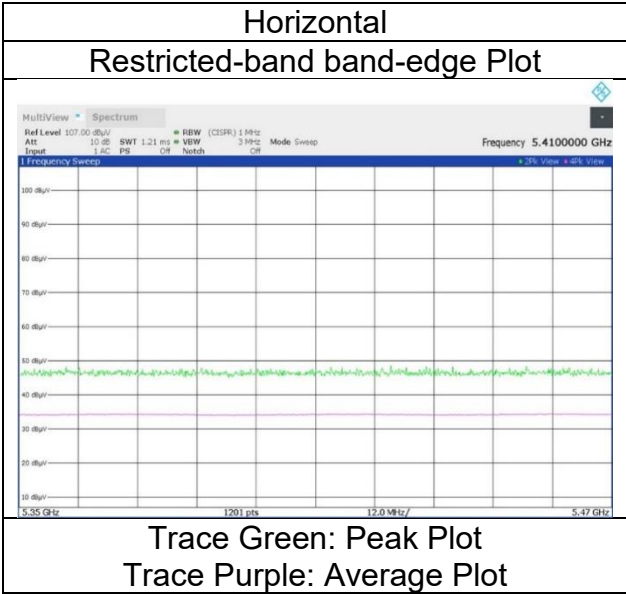
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 7, 2024
Temperature / Humidity	22 deg. C / 30 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20(OFDM) 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 WAC1 WAC1 WAC1
Date March 7, 2024 March 8, 2024 December 20, 2023
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5580 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7440.938	PK	49.41	36.45	-31.94	-	2.10	56.02	73.9	17.8	100	64	-
Hori.	11160.000	PK	48.04	37.72	9.68	42.80	-9.54	43.10	73.9	30.8	192	225	-
Hori.	11160.000	AV	35.70	37.72	9.68	42.80	-9.54	30.76	53.9	23.1	192	225	VBW:200 Hz
Vert.	7440.938	PK	49.79	36.45	-31.94	-	2.10	56.40	73.9	17.5	148	201	-
Vert.	11160.000	PK	47.96	37.72	9.68	42.80	-9.54	43.02	73.9	30.8	174	256	-
Vert.	11160.000	AV	35.42	37.72	9.68	42.80	-9.54	30.48	53.9	23.4	174	256	VBW:200 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	46.34	39.61	12.39	40.57	-9.54	48.23	-47.00	-27.0	20.0	150	0	-
Vert.	16740.000	PK	46.76	39.61	12.39	40.57	-9.54	48.65	-46.58	-27.0	19.5	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = $10 * \text{LOG}((10^{(\text{Electric Field Strength [dBuV/m] / 20)}) * 10^{(-6)} * \text{Distance : 3 [m]})^2 / 30 * 10^{(-3)})$
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	March 7, 2024	March 8, 2024	December 20, 2023
Temperature / Humidity	22 deg. C / 30 % RH	22 deg. C / 35 % RH	21 deg. C / 26 % RH
Engineer	Takayuki Kobayashi	Takayuki Kobayashi	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-20(OFDM) 5700 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7599.947	PK	49.11	36.25	-31.78	-	2.10	55.68	73.9	18.2	155	60	-
Hori.	11400.000	PK	47.97	38.26	9.80	42.64	-9.54	43.85	73.9	30.0	206	241	-
Hori.	11400.000	AV	35.40	38.26	9.80	42.64	-9.54	31.28	53.9	22.6	206	241	VBW:200 Hz
Vert.	7599.947	PK	48.99	36.25	-31.78	-	2.10	55.56	73.9	18.3	179	191	-
Vert.	11400.000	PK	47.82	38.26	9.80	42.64	-9.54	43.70	73.9	30.2	146	241	-
Vert.	11400.000	AV	35.35	38.26	9.80	42.64	-9.54	31.23	53.9	22.6	146	241	VBW:200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.71	32.01	-24.39	-	2.10	59.43	-35.80	-27.0	8.8	126	44	-
Hori.	17100.000	PK	46.33	39.85	12.51	40.42	-9.54	48.73	-46.50	-27.0	19.5	150	0	-
Vert.	5725.000	PK	51.54	32.01	-24.39	-	2.10	61.26	-33.97	-27.0	6.9	162	213	-
Vert.	17100.000	PK	46.24	39.85	12.51	40.42	-9.54	48.64	-46.59	-27.0	19.5	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

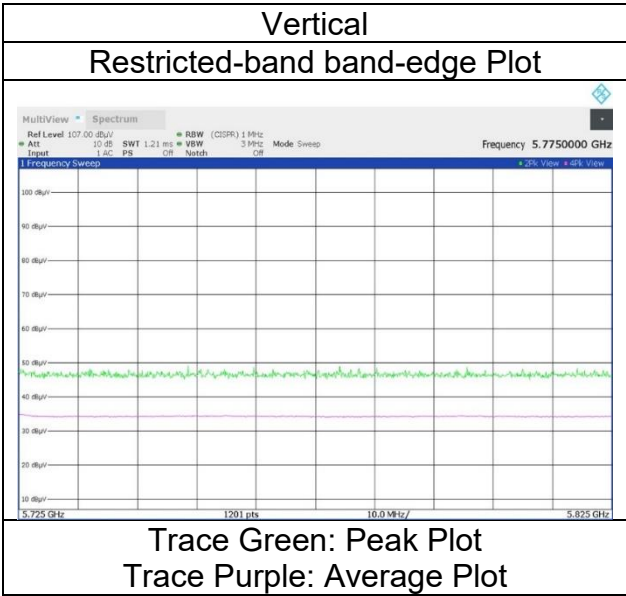
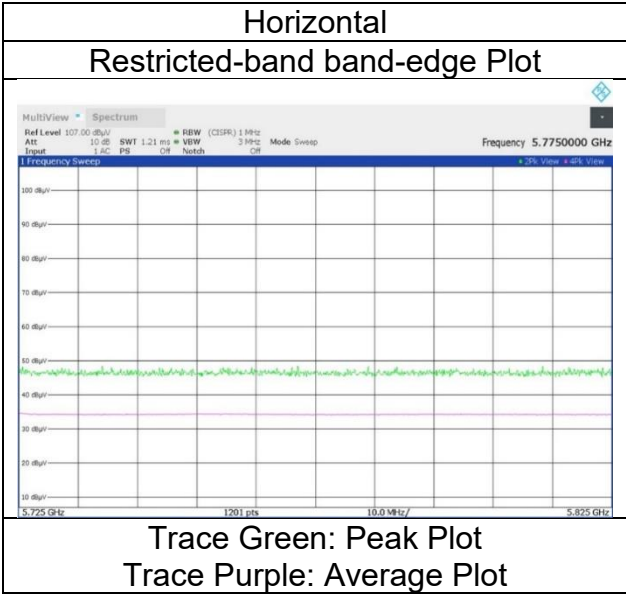
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 7, 2024
Temperature / Humidity	22 deg. C / 30 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-20(OFDM) 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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	WAC1	WAC1	WAC1
Date	March 8, 2024	March 8, 2024	December 20, 2023
Temperature / Humidity	23 deg. C / 35 % RH	22 deg. C / 35 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa	Takayuki Kobayashi	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-20(OFDM) 5745 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7659.936	PK	49.49	36.19	-31.73	-	2.10	56.05	73.9	17.8	188	61	-
Hori.	11490.000	PK	48.80	38.32	9.86	42.59	-9.54	44.85	73.9	29.0	202	282	-
Hori.	11490.000	AV	36.38	38.32	9.86	42.59	-9.54	32.43	53.9	21.4	202	282	VBW:200 Hz
Vert.	7659.936	PK	49.33	36.19	-31.73	-	2.10	55.89	73.9	18.0	137	108	-
Vert.	11490.000	PK	47.84	38.32	9.86	42.59	-9.54	43.89	73.9	30.0	199	264	-
Vert.	11490.000	AV	35.67	38.32	9.86	42.59	-9.54	31.72	53.9	22.1	199	264	VBW:200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.56	31.84	-24.41	-	2.10	58.09	-37.14	-27.0	10.1	164	21	-
Hori.	5700.000	PK	48.38	31.95	-24.39	-	2.10	58.04	-37.19	10.0	47.1	164	21	-
Hori.	5715.000	PK	48.53	31.98	-24.39	-	2.10	58.22	-37.01	14.2	51.2	164	21	-
Hori.	5720.000	PK	50.21	31.99	-24.38	-	2.10	59.92	-35.31	15.6	50.9	164	21	-
Hori.	5725.000	PK	49.57	32.01	-24.39	-	2.10	59.29	-35.94	27.0	62.9	164	21	-
Hori.	17235.000	PK	46.36	40.07	12.53	40.33	-9.54	49.09	-46.14	-27.0	19.1	150	0	-
Vert.	5650.000	PK	48.53	31.84	-24.41	-	2.10	58.06	-37.17	-27.0	10.1	157	347	-
Vert.	5700.000	PK	48.65	31.95	-24.39	-	2.10	58.31	-36.92	10.0	46.9	157	347	-
Vert.	5715.000	PK	48.53	31.98	-24.39	-	2.10	58.22	-37.01	14.2	51.2	157	347	-
Vert.	5720.000	PK	50.33	31.99	-24.38	-	2.10	60.04	-35.19	15.6	50.7	157	347	-
Vert.	5725.000	PK	49.68	32.01	-24.39	-	2.10	59.40	-35.83	27.0	62.8	157	347	-
Vert.	17235.000	PK	45.97	40.07	12.53	40.33	-9.54	48.70	-46.53	-27.0	19.5	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

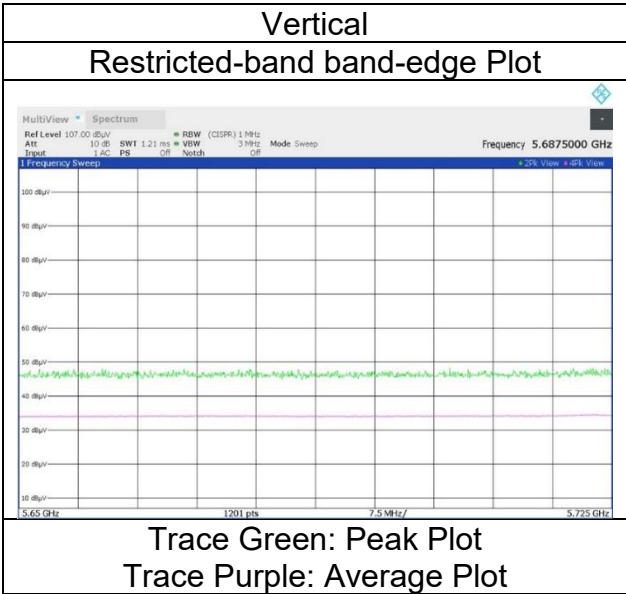
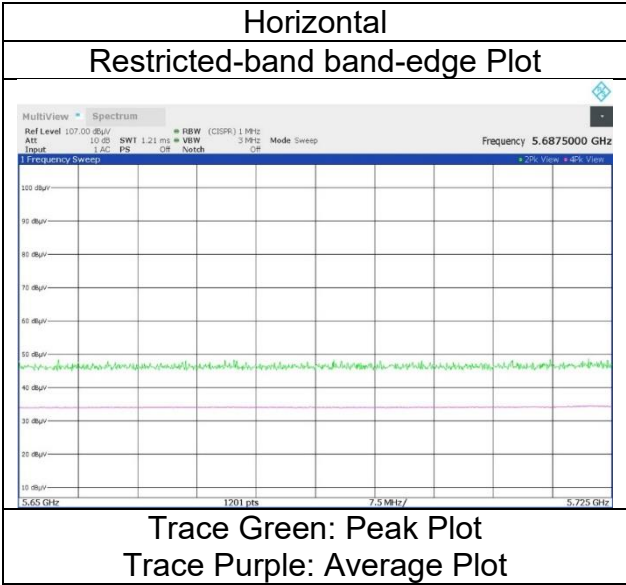
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
March 8, 2024
23 deg. C / 35 % RH
Yohsuke Matsuzawa
Tx 11ax-20(OFDM) 5745 MHz
5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 WAC1 WAC1 WAC1
Date March 8, 2024 March 8, 2024 December 20, 2023
Temperature / Humidity 23 deg. C / 35 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH
Engineer Yohsuke Matsuzawa Takayuki Kobayashi Yosuke Murakami
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5785 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7713.520	PK	48.59	36.21	-31.69	-	2.10	55.21	73.9	18.6	170	68	-
Hori.	11570.000	PK	50.03	38.33	9.89	42.55	-9.54	46.16	73.9	27.7	121	208	-
Hori.	11570.000	AV	37.22	38.33	9.89	42.55	-9.54	33.35	53.9	20.5	121	208	VBW:200 Hz
Vert.	7713.520	PK	48.86	36.21	-31.69	-	2.10	55.48	73.9	18.4	146	112	-
Vert.	11570.000	PK	48.91	38.33	9.89	42.55	-9.54	45.04	73.9	28.8	178	265	-
Vert.	11570.000	AV	36.97	38.33	9.89	42.55	-9.54	33.10	53.9	20.8	178	265	VBW:200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	46.69	40.18	12.55	40.26	-9.54	49.62	-45.61	-27.0	18.6	150	0	-
Vert.	17355.000	PK	46.90	40.18	12.55	40.26	-9.54	49.83	-45.40	-27.0	18.4	150	0	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	March 8, 2024	March 8, 2024	December 20, 2023
Temperature / Humidity	23 deg. C / 35 % RH	22 deg. C / 35 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa	Takayuki Kobayashi	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-20(OFDM) 5825 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	49.57	38.33	9.94	42.51	-9.54	45.79	73.9	28.1	193	204	-
Hori.	11650.000	AV	37.11	38.33	9.94	42.51	-9.54	33.33	53.9	20.5	193	204	VBW:200 Hz
Vert.	11650.000	PK	49.35	38.33	9.94	42.51	-9.54	45.57	73.9	28.3	173	259	-
Vert.	11650.000	AV	37.31	38.33	9.94	42.51	-9.54	33.53	53.9	20.3	173	259	VBW:200 Hz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.68	32.33	-24.33	-	2.10	58.78	-36.45	27.0	63.4	142	34	-
Hori.	5855.000	PK	47.85	32.34	-24.32	-	2.10	57.97	-37.26	15.6	52.8	142	34	-
Hori.	5860.000	PK	48.57	32.35	-24.33	-	2.10	58.69	-36.54	14.2	50.7	142	34	-
Hori.	5875.000	PK	48.36	32.38	-24.32	-	2.10	58.52	-36.71	10.0	46.7	142	34	-
Hori.	5925.000	PK	48.62	32.46	-24.31	-	2.10	58.87	-36.36	-27.0	9.3	142	34	-
Hori.	7766.123	PK	48.56	36.28	-31.64	-	2.10	55.30	-39.93	-27.0	12.9	151	4	-
Hori.	17475.000	PK	46.46	40.28	12.57	40.18	-9.54	49.59	-45.64	-27.0	18.6	150	0	-
Vert.	5850.000	PK	48.15	32.33	-24.33	-	2.10	58.25	-36.98	27.0	63.9	100	201	-
Vert.	5855.000	PK	48.32	32.34	-24.32	-	2.10	58.44	-36.79	15.6	52.3	100	201	-
Vert.	5860.000	PK	48.36	32.35	-24.33	-	2.10	58.48	-36.75	14.2	50.9	100	201	-
Vert.	5875.000	PK	48.87	32.38	-24.32	-	2.10	59.03	-36.20	10.0	46.2	100	201	-
Vert.	5925.000	PK	48.83	32.46	-24.31	-	2.10	59.08	-36.15	-27.0	9.1	100	201	-
Vert.	7766.123	PK	48.46	36.28	-31.64	-	2.10	55.20	-40.03	-27.0	13.0	149	10	-
Vert.	17475.000	PK	46.44	40.28	12.57	40.18	-9.54	49.57	-45.66	-27.0	18.6	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

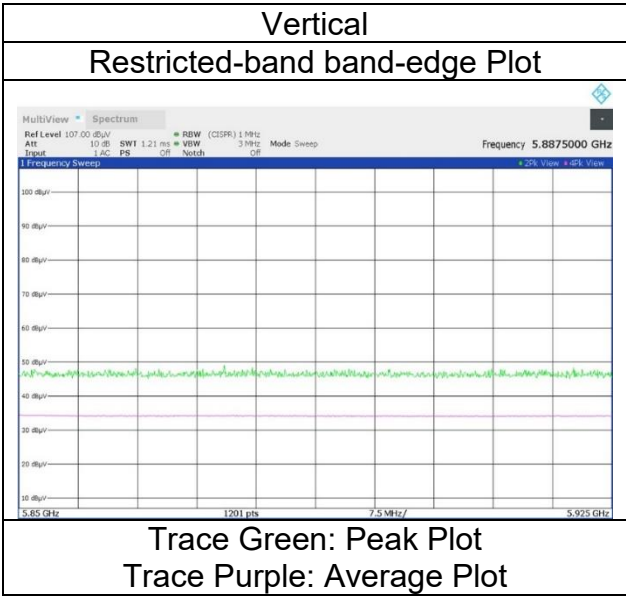
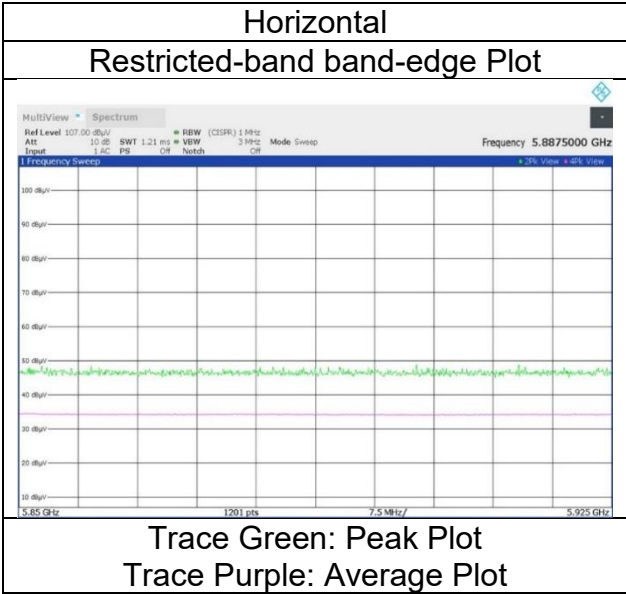
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20(OFDM) 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.30	31.86	-25.53	-	2.10	55.73	73.9	18.1	165	343	-
Hori.	5150.000	AV	35.02	31.86	-25.53	-	2.10	43.45	53.9	10.4	165	343	VBW: 1 kHz
Vert.	5150.000	PK	46.70	31.86	-25.53	-	2.10	55.13	73.9	18.7	129	343	-
Vert.	5150.000	AV	35.12	31.86	-25.53	-	2.10	43.55	53.9	10.3	129	343	VBW: 1 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

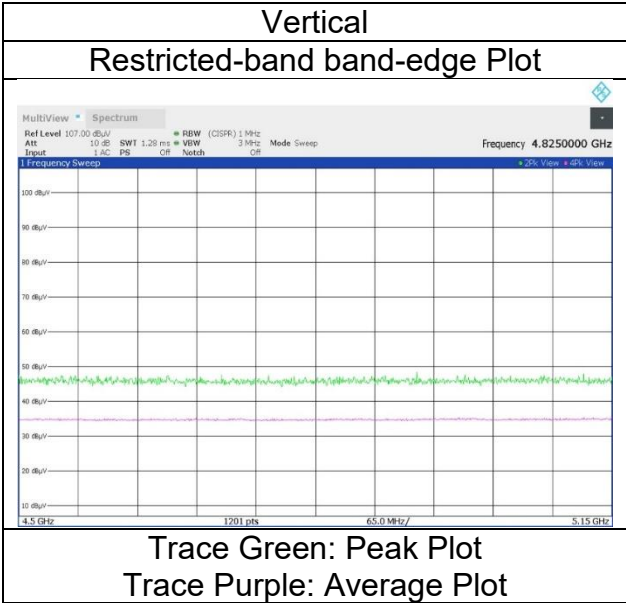
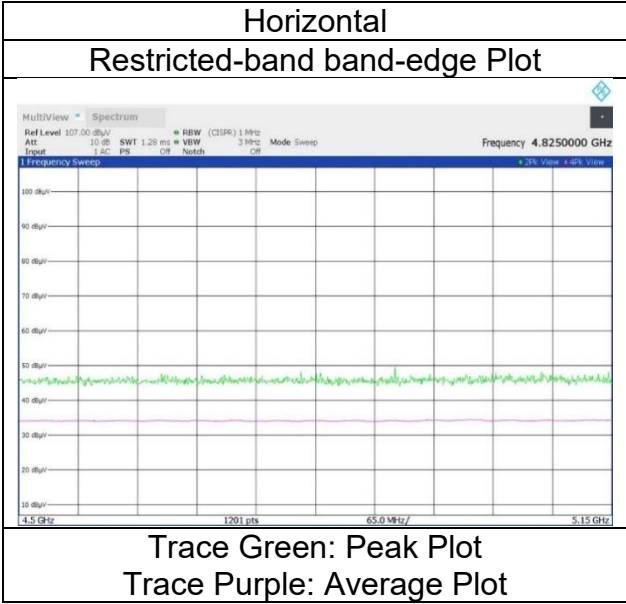
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 26-tone 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 0



* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 8

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.11	31.58	-25.29	-	2.10	59.50	73.9	14.4	168	332	-
Hori.	5350.000	AV	34.81	31.58	-25.29	-	2.10	43.20	53.9	10.7	168	332	VBW: 1 kHz
Vert.	5350.000	PK	47.51	31.58	-25.29	-	2.10	55.90	73.9	18.0	150	352	-
Vert.	5350.000	AV	34.81	31.58	-25.29	-	2.10	43.20	53.9	10.7	150	352	VBW: 1 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

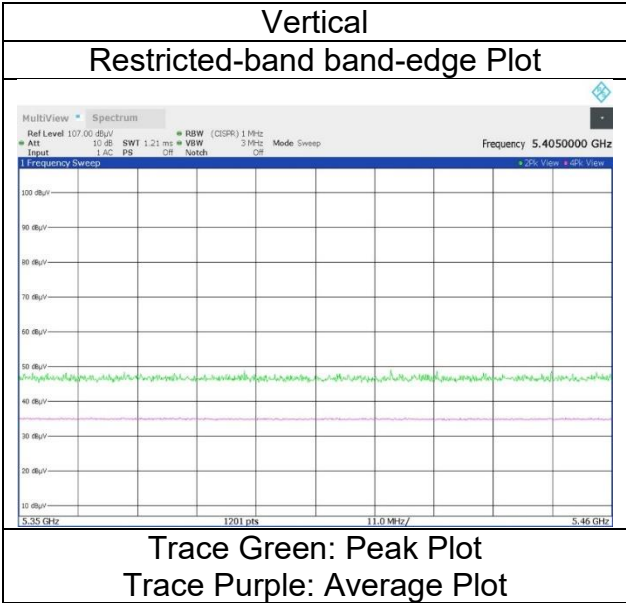
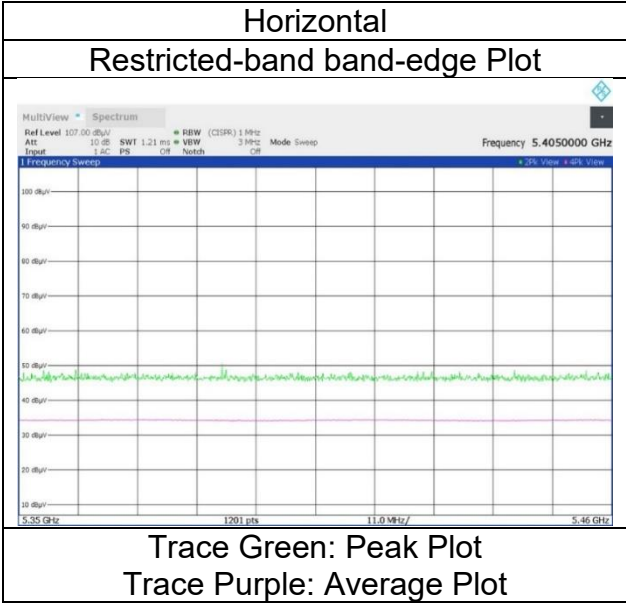
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 26-tone 5320 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 8



* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	46.12	31.78	-25.16	-	2.10	54.84	73.9	19.0	239	342	-
Hori.	5460.000	AV	34.63	31.78	-25.16	-	2.10	43.35	53.9	10.5	239	342	VBW: 1 kHz
Vert.	5460.000	PK	47.07	31.78	-25.16	-	2.10	55.79	73.9	18.1	144	344	-
Vert.	5460.000	AV	34.98	31.78	-25.16	-	2.10	43.70	53.9	10.2	144	344	VBW: 1 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.64	31.79	-25.15	-	2.10	56.38	-38.85	-27.0	11.8	239	342	-
Vert.	5470.000	PK	46.20	31.79	-25.15	-	2.10	54.94	-40.29	-27.0	13.2	144	344	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

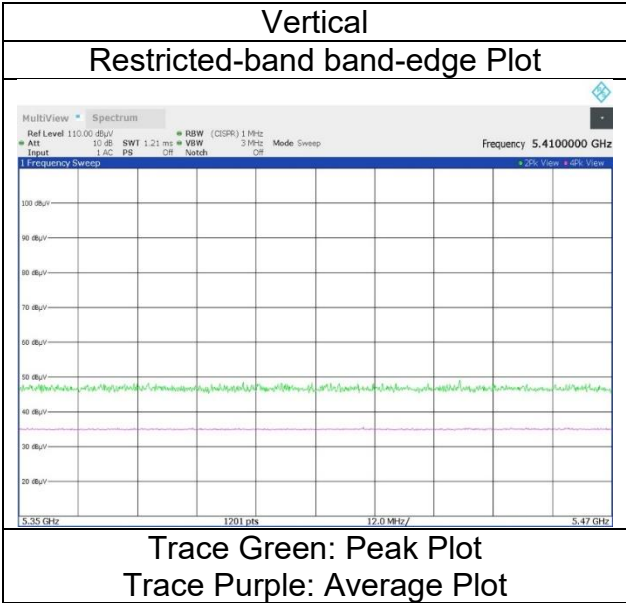
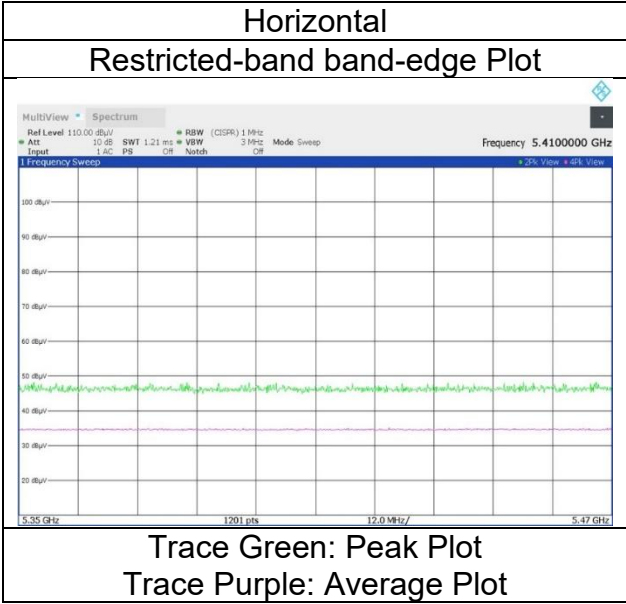
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 26-tone 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 0



* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 8
(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.38	32.01	-25.06	-	2.10	56.43	-38.80	-27.0	11.8	244	28	-
Vert.	5725.000	PK	46.32	32.01	-25.06	-	2.10	55.37	-39.86	-27.0	12.8	139	356	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

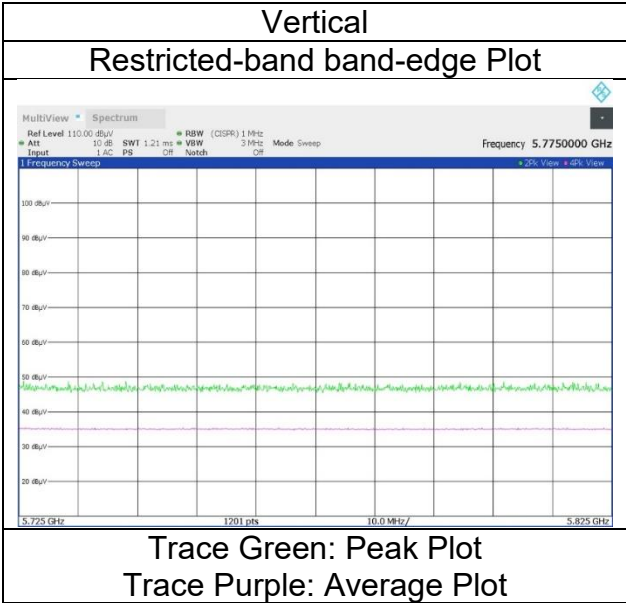
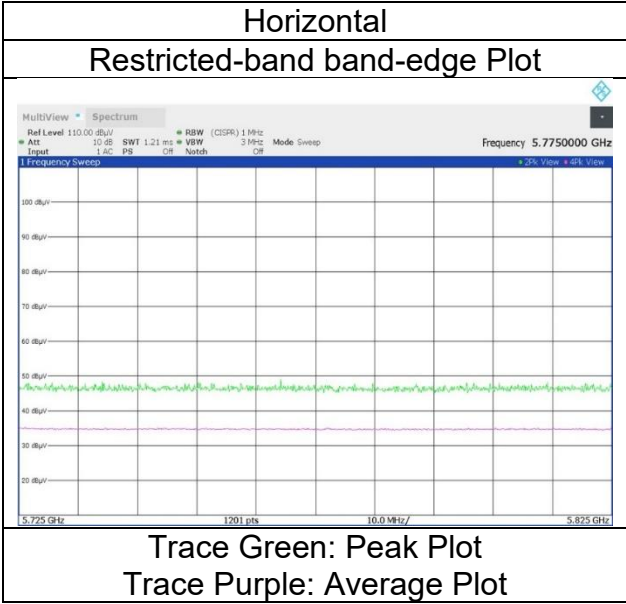
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 26-tone 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 8



* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	46.69	31.84	-25.07	-	2.10	55.56	-39.67	-27.0	12.6	150	343	-
Hori.	5700.000	PK	46.71	31.95	-25.06	-	2.10	55.70	-39.53	10.0	49.5	150	343	-
Hori.	5715.000	PK	47.60	31.98	-25.06	-	2.10	56.62	-38.61	14.2	52.8	150	343	-
Hori.	5720.000	PK	47.22	31.99	-25.05	-	2.10	56.26	-38.97	15.6	54.5	150	343	-
Hori.	5725.000	PK	46.36	32.01	-25.06	-	2.10	55.41	-39.82	27.0	66.8	150	343	-
Vert.	5650.000	PK	46.33	31.84	-25.07	-	2.10	55.20	-40.03	-27.0	13.0	159	341	-
Vert.	5700.000	PK	46.78	31.95	-25.06	-	2.10	55.77	-39.46	10.0	49.4	159	341	-
Vert.	5715.000	PK	46.40	31.98	-25.06	-	2.10	55.42	-39.81	14.2	54.0	159	341	-
Vert.	5720.000	PK	46.75	31.99	-25.05	-	2.10	55.79	-39.44	15.6	55.0	159	341	-
Vert.	5725.000	PK	47.75	32.01	-25.06	-	2.10	56.80	-38.43	27.0	65.4	159	341	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

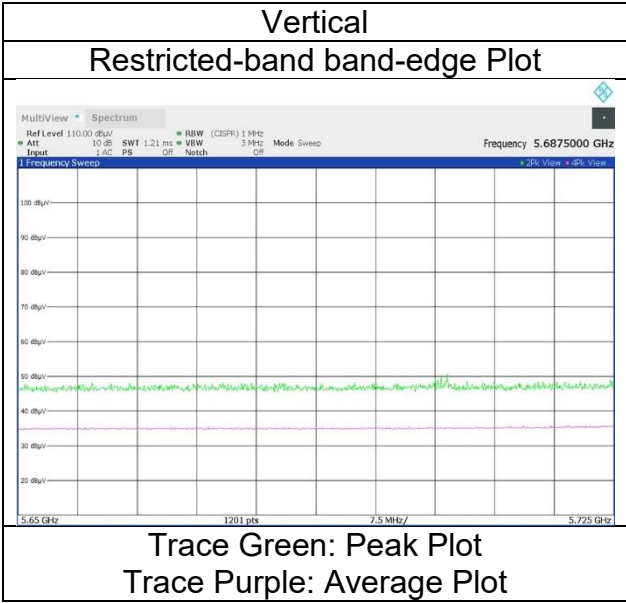
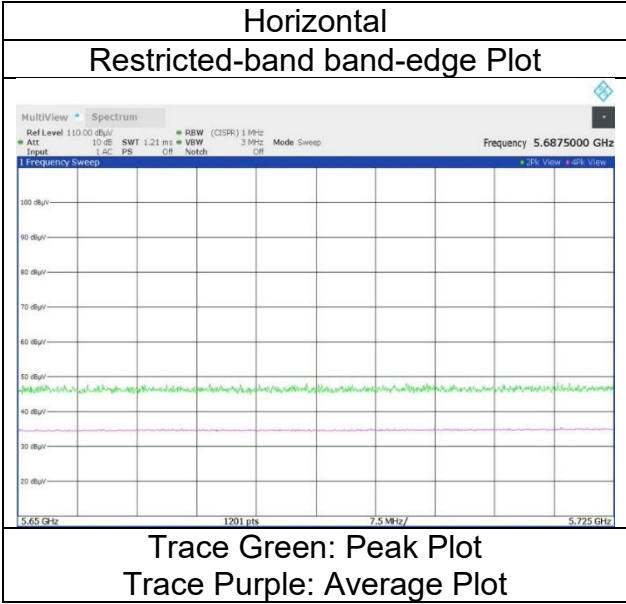
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 26-tone 5745 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 0



* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	47.22	32.33	-25.01	-	2.10	56.64	-38.59	27.0	65.5	150	163	-
Hori.	5855.000	PK	46.07	32.34	-25.00	-	2.10	55.51	-39.72	15.6	55.3	150	163	-
Hori.	5860.000	PK	45.80	32.35	-25.01	-	2.10	55.24	-39.99	14.2	54.1	150	163	-
Hori.	5875.000	PK	46.26	32.38	-25.00	-	2.10	55.74	-39.49	10.0	49.4	150	163	-
Hori.	5925.000	PK	46.36	32.46	-24.99	-	2.10	55.93	-39.30	-27.0	12.3	150	163	-
Vert.	5850.000	PK	47.87	32.33	-25.01	-	2.10	57.29	-37.94	27.0	64.9	223	193	-
Vert.	5855.000	PK	47.85	32.34	-25.00	-	2.10	57.29	-37.94	15.6	53.5	223	193	-
Vert.	5860.000	PK	47.15	32.35	-25.01	-	2.10	56.59	-38.64	14.2	52.8	223	193	-
Vert.	5875.000	PK	46.62	32.38	-25.00	-	2.10	56.10	-39.13	10.0	49.1	223	193	-
Vert.	5925.000	PK	46.84	32.46	-24.99	-	2.10	56.41	-38.82	-27.0	11.8	223	193	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

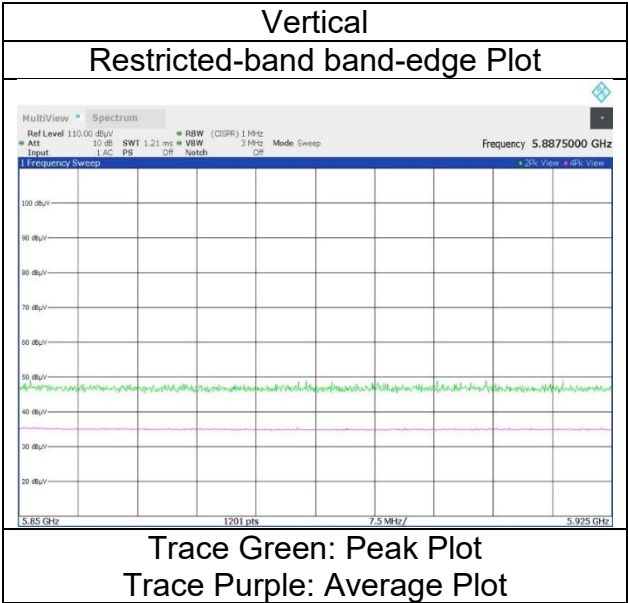
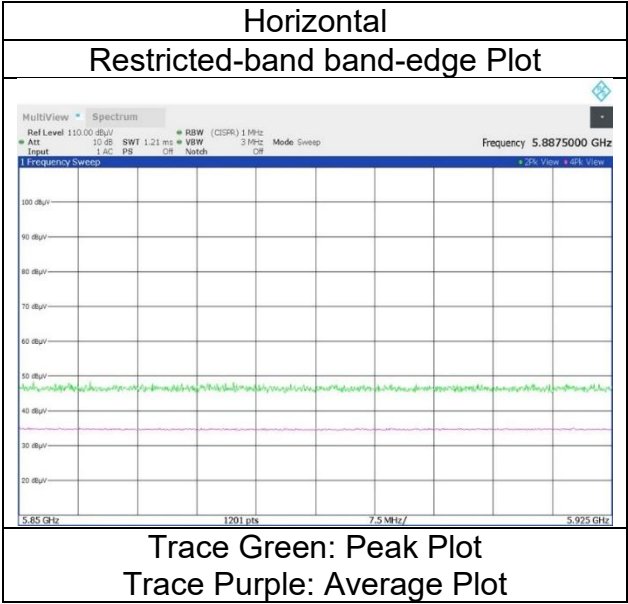
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 26-tone 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 52-tone 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.16	31.86	-25.53	-	2.10	55.59	73.9	18.3	128	339	-
Hori.	5150.000	AV	35.34	31.86	-25.53	-	2.10	43.77	53.9	10.1	128	339	VBW: 2 kHz
Vert.	5150.000	PK	47.21	31.86	-25.53	-	2.10	55.64	73.9	18.2	227	339	-
Vert.	5150.000	AV	35.18	31.86	-25.53	-	2.10	43.61	53.9	10.2	227	339	VBW: 2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

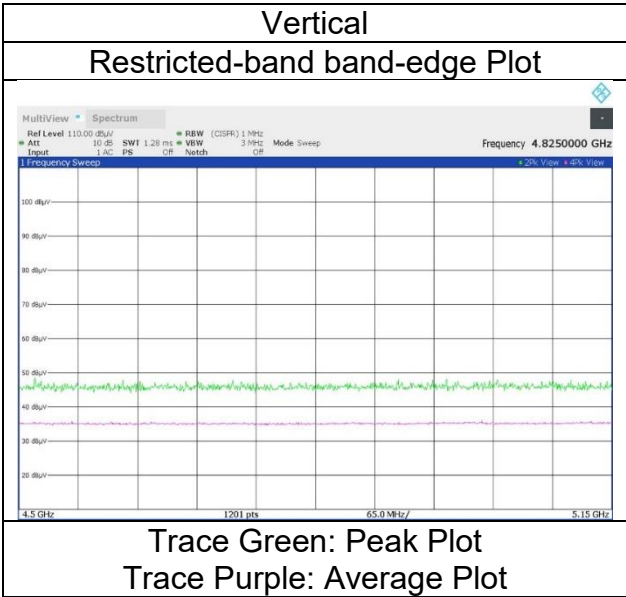
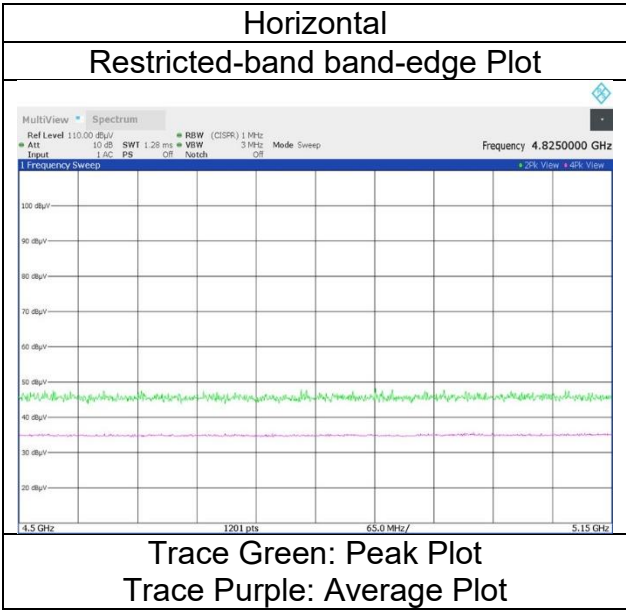
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 52-tone 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 52-tone 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.86	31.58	-25.29	-	2.10	57.25	73.9	16.6	143	333	-
Hori.	5350.000	AV	35.22	31.58	-25.29	-	2.10	43.61	53.9	10.2	143	333	VBW: 2 kHz
Vert.	5350.000	PK	47.30	31.58	-25.29	-	2.10	55.69	73.9	18.2	150	354	-
Vert.	5350.000	AV	35.55	31.58	-25.29	-	2.10	43.94	53.9	9.9	150	354	VBW: 2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

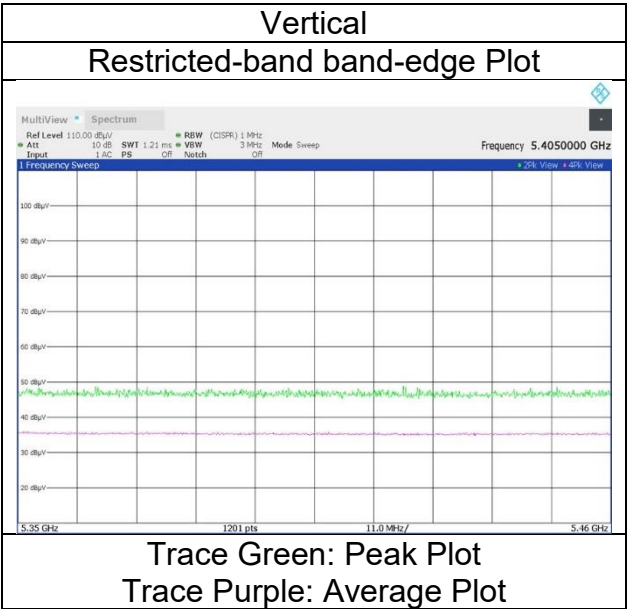
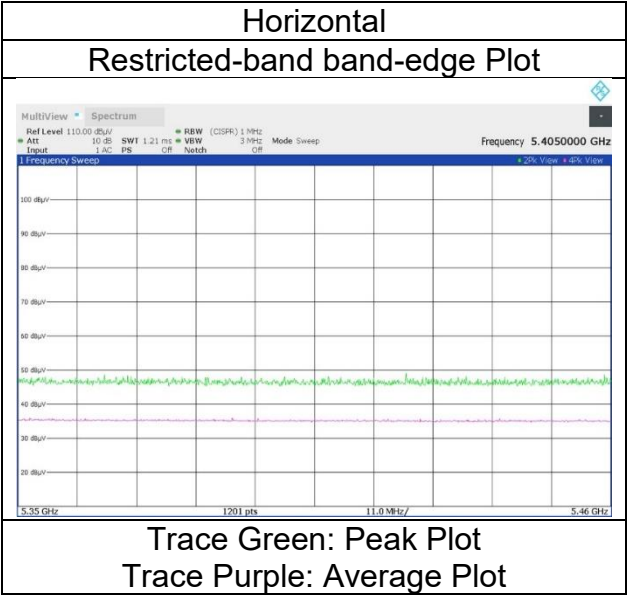
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
April 17, 2024
21 deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-20(OFDMA) 52-tone 5320 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 52-tone 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.71	31.78	-25.16	-	2.10	56.43	73.9	17.4	109	344	-
Hori.	5460.000	AV	35.10	31.78	-25.16	-	2.10	43.82	53.9	10.0	109	344	VBW: 2.0 kHz
Vert.	5460.000	PK	46.69	31.78	-25.16	-	2.10	55.41	73.9	18.4	215	342	-
Vert.	5460.000	AV	35.54	31.78	-25.16	-	2.10	44.26	53.9	9.6	215	342	VBW: 2.0 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.20	31.79	-25.15	-	2.10	54.94	-40.29	-27.0	13.2	109	344	-
Vert.	5470.000	PK	47.91	31.79	-25.15	-	2.10	56.65	-38.58	-27.0	11.5	215	342	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

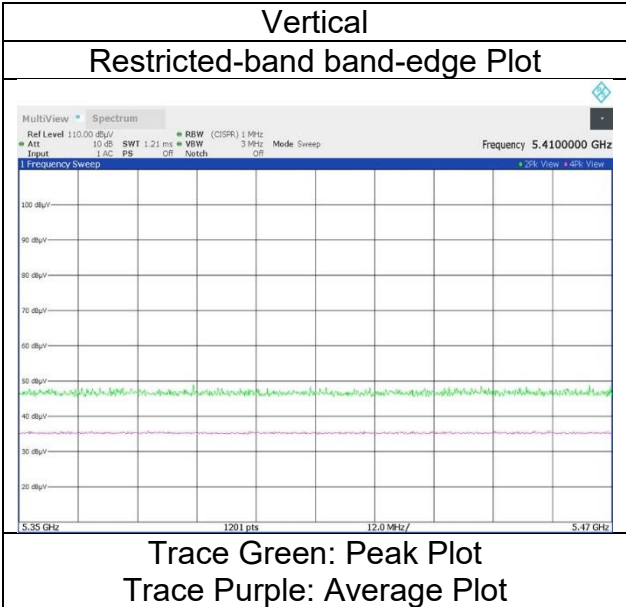
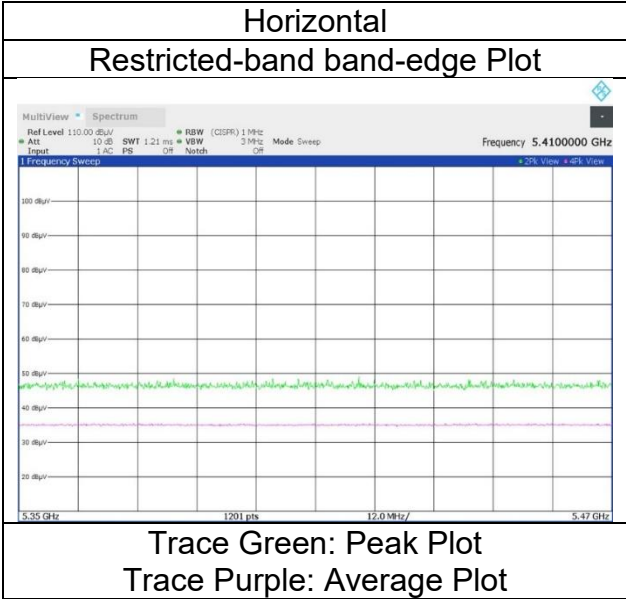
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 52-tone 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 52-tone 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 40
(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.75	32.01	-25.06	-	2.10	56.80	-38.43	-27.0	11.4	200	29	-
Vert.	5725.000	PK	47.64	32.01	-25.06	-	2.10	56.69	-38.54	-27.0	11.5	207	349	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

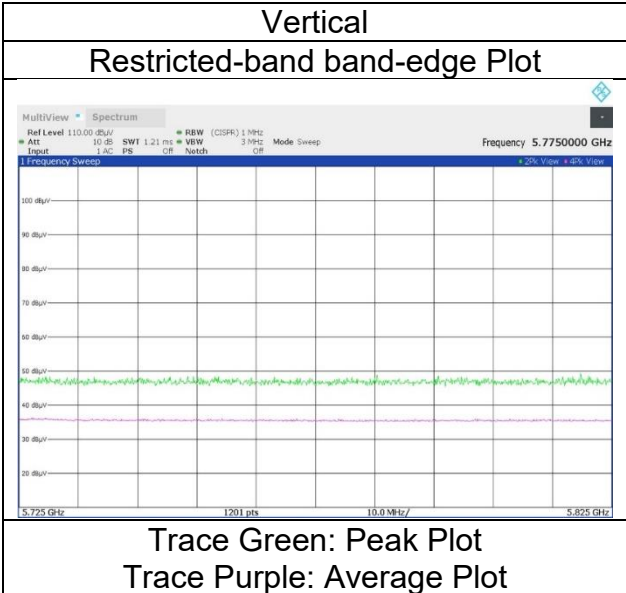
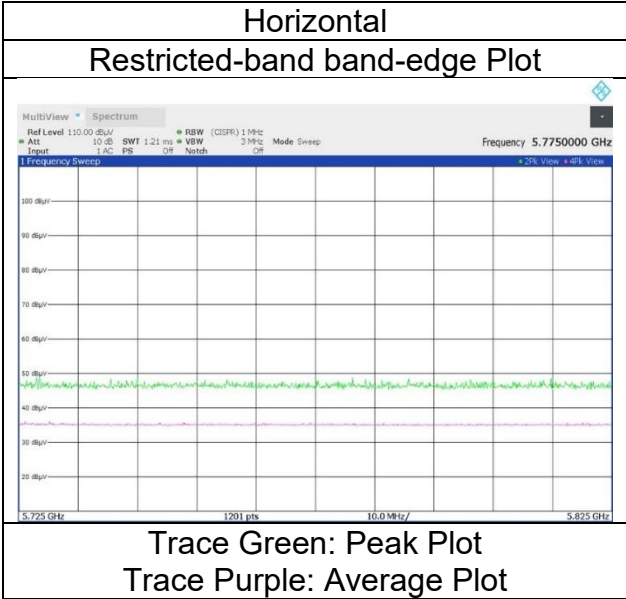
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 52-tone 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 52-tone 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	46.35	31.84	-25.07	-	2.10	55.22	-40.01	-27.0	13.0	145	341	-
Hori.	5700.000	PK	46.09	31.95	-25.06	-	2.10	55.08	-40.15	10.0	50.1	145	341	-
Hori.	5715.000	PK	47.81	31.98	-25.06	-	2.10	56.83	-38.40	14.2	52.5	145	341	-
Hori.	5720.000	PK	46.43	31.99	-25.05	-	2.10	55.47	-39.76	15.6	55.3	145	341	-
Hori.	5725.000	PK	47.55	32.01	-25.06	-	2.10	56.60	-38.63	27.0	65.6	145	341	-
Vert.	5650.000	PK	46.29	31.84	-25.07	-	2.10	55.16	-40.07	-27.0	13.0	174	342	-
Vert.	5700.000	PK	47.55	31.95	-25.06	-	2.10	56.54	-38.69	10.0	48.6	174	342	-
Vert.	5715.000	PK	46.41	31.98	-25.06	-	2.10	55.43	-39.80	14.2	53.9	174	342	-
Vert.	5720.000	PK	47.17	31.99	-25.05	-	2.10	56.21	-39.02	15.6	54.6	174	342	-
Vert.	5725.000	PK	48.45	32.01	-25.06	-	2.10	57.50	-37.73	27.0	64.7	174	342	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

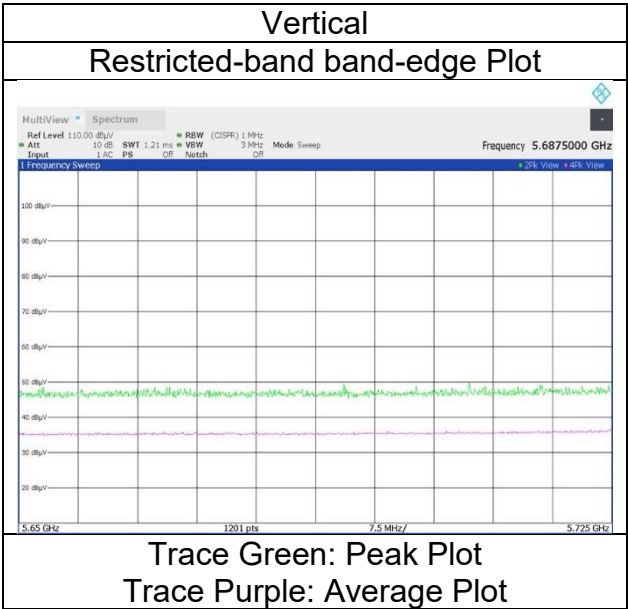
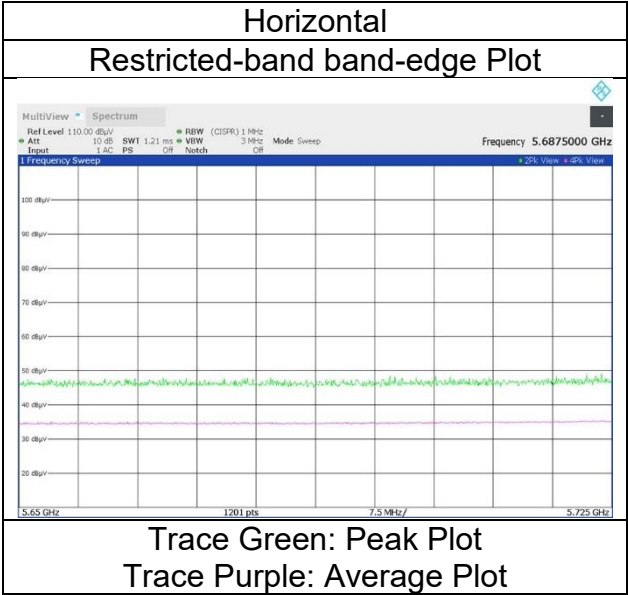
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
April 17, 2024
21 deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-20(OFDMA) 52-tone 5745 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 52-tone 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 40

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	47.52	32.33	-25.01	-	2.10	56.94	-38.29	27.0	65.2	165	337	-
Hori.	5855.000	PK	47.17	32.34	-25.00	-	2.10	56.61	-38.62	15.6	54.2	165	337	-
Hori.	5860.000	PK	47.26	32.35	-25.01	-	2.10	56.70	-38.53	14.2	52.7	165	337	-
Hori.	5875.000	PK	46.99	32.38	-25.00	-	2.10	56.47	-38.76	10.0	48.7	165	337	-
Hori.	5925.000	PK	46.15	32.46	-24.99	-	2.10	55.72	-39.51	-27.0	12.5	165	337	-
Vert.	5850.000	PK	46.71	32.33	-25.35	-	2.10	55.79	-39.44	27.0	66.4	183	350	-
Vert.	5855.000	PK	46.94	32.34	-25.34	-	2.10	56.04	-39.19	15.6	54.7	183	350	-
Vert.	5860.000	PK	46.73	32.35	-25.35	-	2.10	55.83	-39.40	14.2	53.5	183	350	-
Vert.	5875.000	PK	46.85	32.38	-25.34	-	2.10	55.99	-39.24	10.0	49.2	183	350	-
Vert.	5925.000	PK	46.33	32.46	-25.33	-	2.10	55.56	-39.67	-27.0	12.6	183	350	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

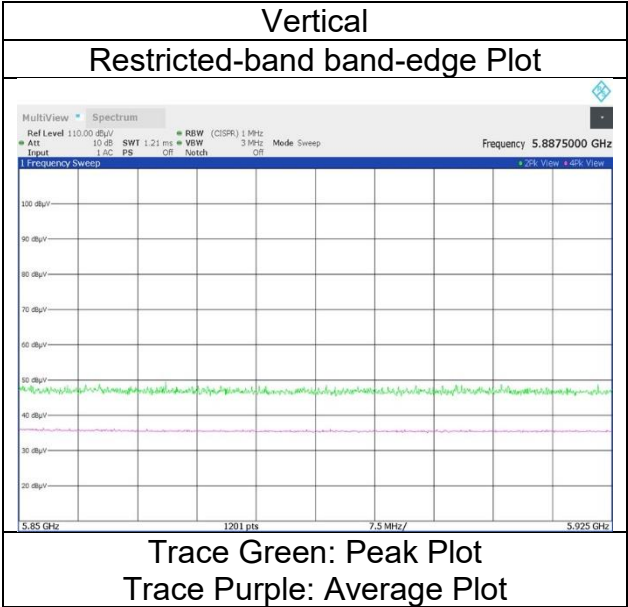
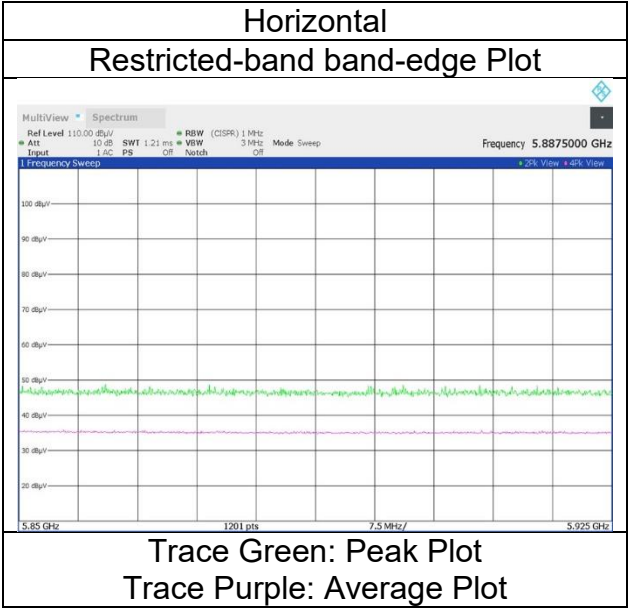
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 52-tone 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.69	31.86	-25.53	-	2.10	56.12	73.9	17.7	210	335	-
Hori.	5150.000	AV	35.20	31.86	-25.53	-	2.10	43.63	53.9	10.2	210	335	VBW: 3 kHz
Vert.	5150.000	PK	47.77	31.86	-25.53	-	2.10	56.20	73.9	17.7	111	358	-
Vert.	5150.000	AV	35.60	31.86	-25.53	-	2.10	44.03	53.9	9.8	111	358	VBW: 3 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

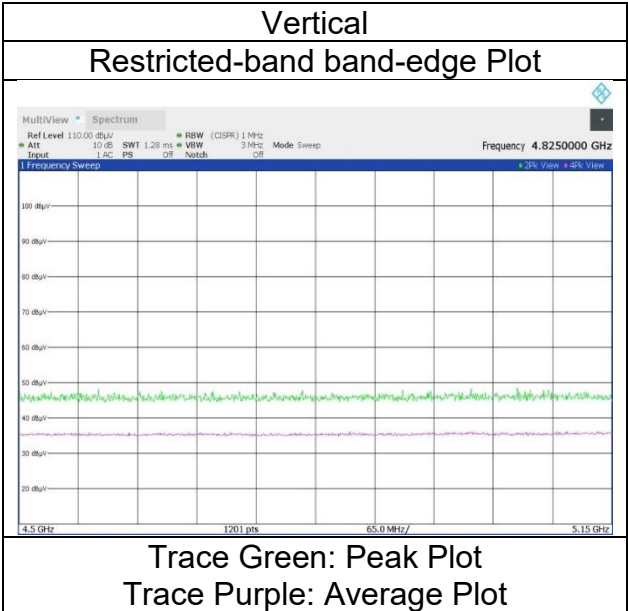
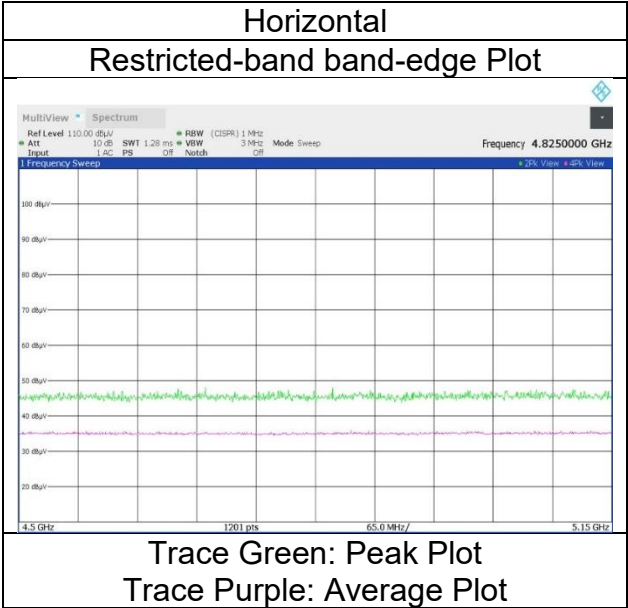
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
April 17, 2024
21 deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-20(OFDMA) 106-tone 5180 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 54
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.21	31.58	-25.29	-	2.10	55.60	73.9	18.3	156	336	-
Hori.	5350.000	AV	35.25	31.58	-25.29	-	2.10	43.64	53.9	10.2	156	336	VBW: 3 kHz
Vert.	5350.000	PK	48.05	31.58	-25.29	-	2.10	56.44	73.9	17.4	150	350	-
Vert.	5350.000	AV	35.54	31.58	-25.29	-	2.10	43.93	53.9	9.9	150	350	VBW: 3 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

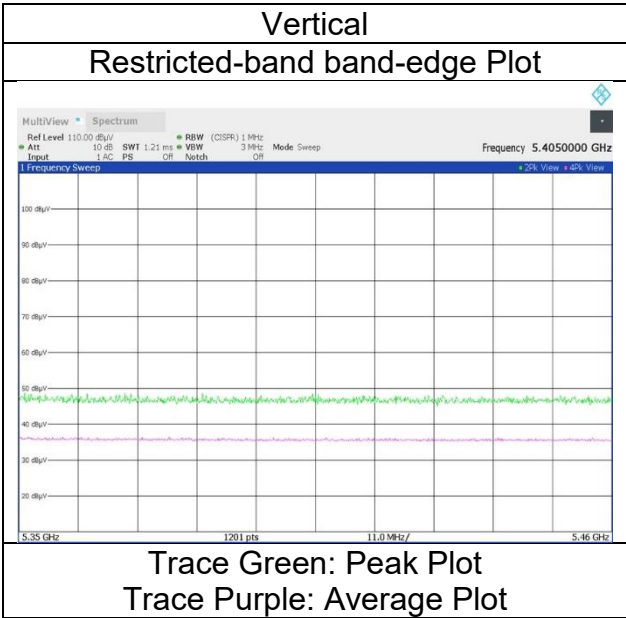
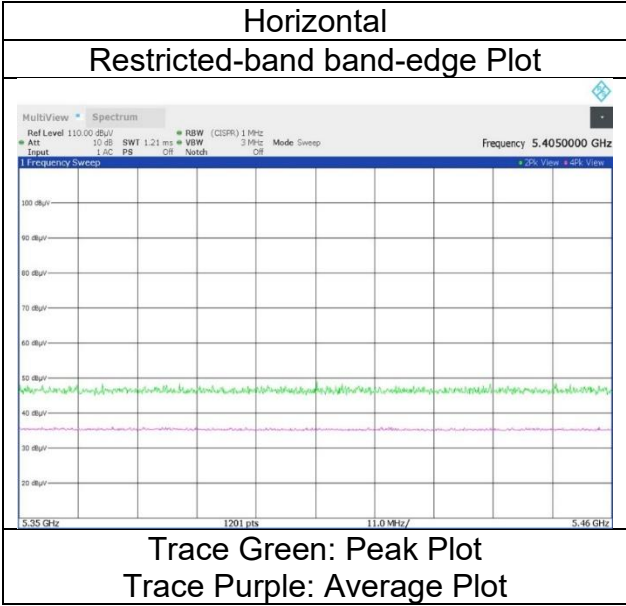
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 106-tone 5320 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 106-tone 5500 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.50	31.78	-25.16	-	2.10	56.22	73.9	17.6	172	331	-
Hori.	5460.000	AV	35.17	31.78	-25.16	-	2.10	43.89	53.9	10.0	172	331	VBW: 3 kHz
Vert.	5460.000	PK	46.49	31.78	-25.16	-	2.10	55.21	73.9	18.6	167	330	-
Vert.	5460.000	AV	36.10	31.78	-25.16	-	2.10	44.82	53.9	9.0	167	330	VBW: 3 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.54	31.79	-25.15	-	2.10	56.28	-38.95	-27.0	11.9	172	331	-
Vert.	5470.000	PK	46.82	31.79	-25.15	-	2.10	55.56	-39.67	-27.0	12.6	167	330	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

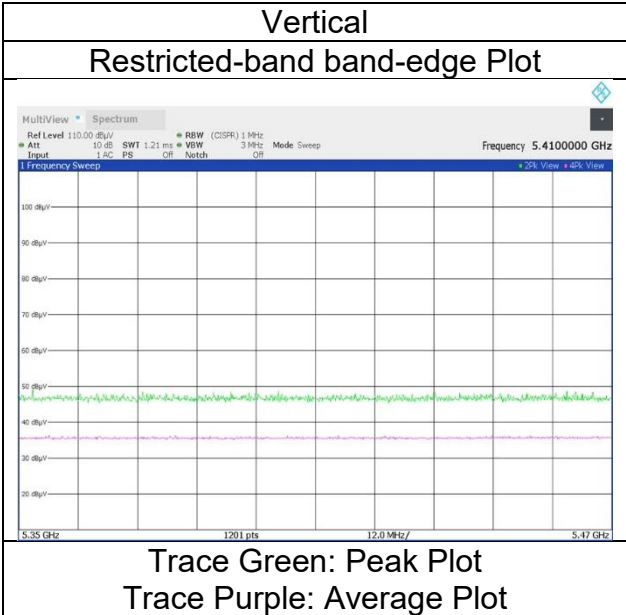
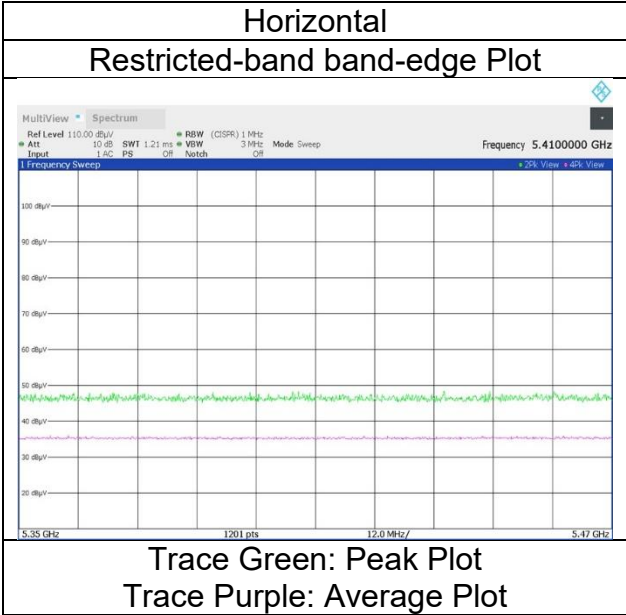
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
April 17, 2024
21 deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-20(OFDMA) 106-tone 5500 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 54
(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.78	32.01	-25.06		2.10	55.83	-39.40	-27.0	12.4	175	329	-
Vert.	5725.000	PK	47.32	32.01	-25.06		2.10	56.37	-38.86	-27.0	11.8	169	340	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

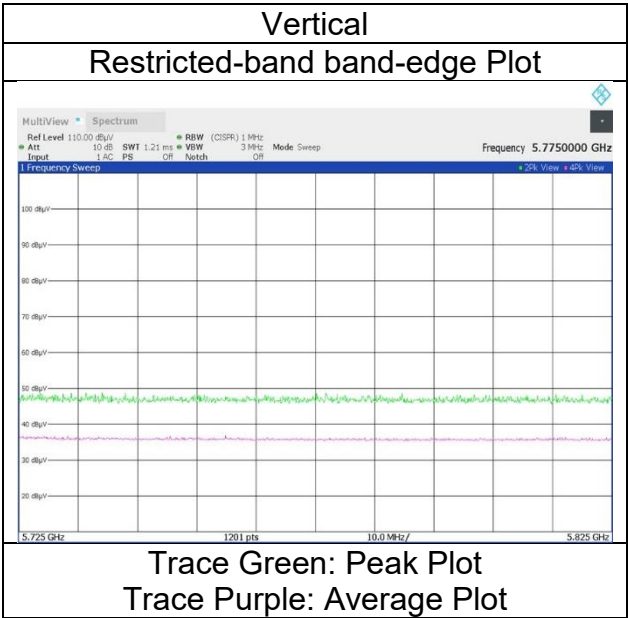
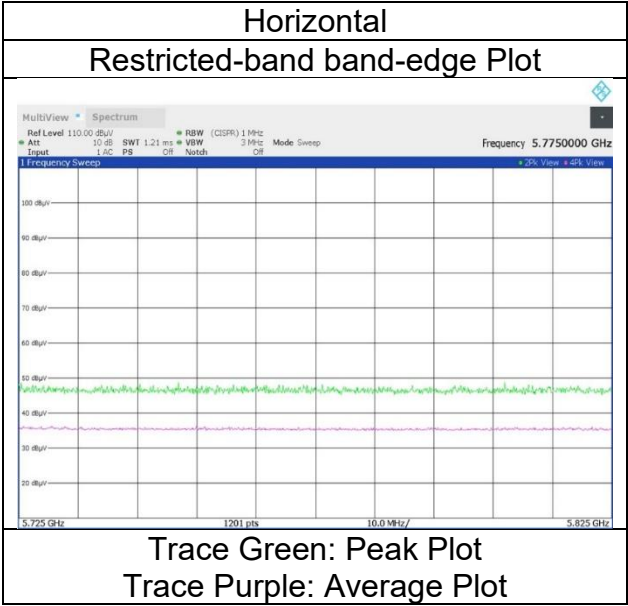
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-20(OFDMA) 106-tone 5700 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	46.76	31.84	-25.07	-	2.10	55.63	-39.60	-27.0	12.6	135	327	-
Hori.	5700.000	PK	46.78	31.95	-25.06	-	2.10	55.77	-39.46	10.0	49.4	135	327	-
Hori.	5715.000	PK	46.63	31.98	-25.06	-	2.10	55.65	-39.58	14.2	53.7	135	327	-
Hori.	5720.000	PK	46.23	31.99	-25.05	-	2.10	55.27	-39.96	15.6	55.5	135	327	-
Hori.	5725.000	PK	47.03	32.01	-25.06	-	2.10	56.08	-39.15	27.0	66.1	135	327	-
Vert.	5650.000	PK	46.56	31.84	-25.07	-	2.10	55.43	-39.80	-27.0	12.8	151	331	-
Vert.	5700.000	PK	46.28	31.95	-25.06	-	2.10	55.27	-39.96	10.0	49.9	151	331	-
Vert.	5715.000	PK	47.25	31.98	-25.06	-	2.10	56.27	-38.96	14.2	53.1	151	331	-
Vert.	5720.000	PK	47.64	31.99	-25.05	-	2.10	56.68	-38.55	15.6	54.1	151	331	-
Vert.	5725.000	PK	46.89	32.01	-25.06	-	2.10	55.94	-39.29	27.0	66.2	151	331	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

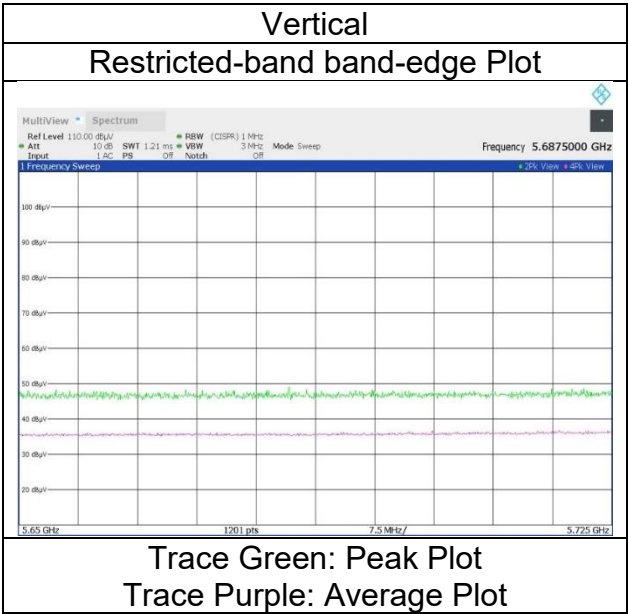
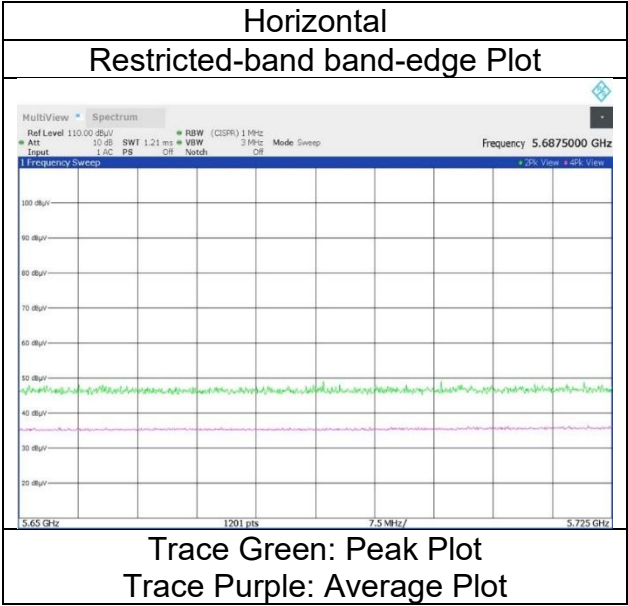
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
April 17, 2024
21 deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-20(OFDMA) 106-tone 5745 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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* The measurement was conducted for a 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 WAC1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 54
(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	46.37	32.33	-25.01	-	2.10	55.79	-39.44	27.0	66.4	151	341	-
Hori.	5855.000	PK	46.18	32.34	-25.00	-	2.10	55.62	-39.61	15.6	55.2	151	341	-
Hori.	5860.000	PK	46.42	32.35	-25.01	-	2.10	55.86	-39.37	14.2	53.5	151	341	-
Hori.	5875.000	PK	46.46	32.38	-25.00	-	2.10	55.94	-39.29	10.0	49.2	151	341	-
Hori.	5925.000	PK	48.15	32.46	-24.99	-	2.10	57.72	-37.51	-27.0	10.5	151	341	-
Vert.	5850.000	PK	47.44	32.33	-25.01	-	2.10	56.86	-38.37	27.0	65.3	148	344	-
Vert.	5855.000	PK	47.73	32.34	-25.00	-	2.10	57.17	-38.06	15.6	53.6	148	344	-
Vert.	5860.000	PK	47.31	32.35	-25.01	-	2.10	56.75	-38.48	14.2	52.6	148	344	-
Vert.	5875.000	PK	47.68	32.38	-25.00	-	2.10	57.16	-38.07	10.0	48.0	148	344	-
Vert.	5925.000	PK	48.14	32.46	-24.99	-	2.10	57.71	-37.52	-27.0	10.5	148	344	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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