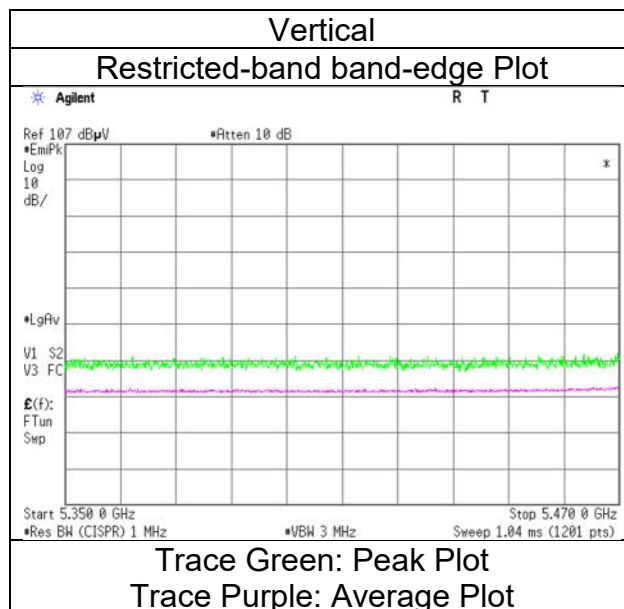
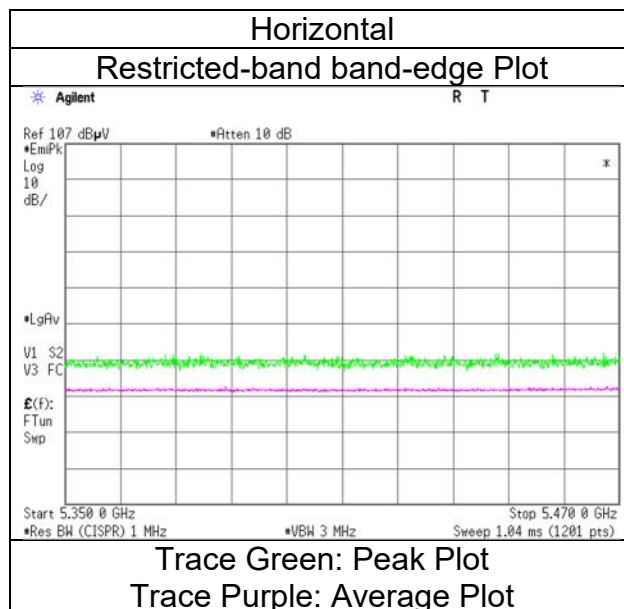


Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date July 11, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
Mode Tx 11a, 5500 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date July 11, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11a, 5700 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.55	32.63	17.10	43.42	2.49	59.35	-35.88	-27.0	8.8	215	244	-
Vert.	5725.000	PK	50.14	32.63	17.10	43.42	2.49	58.94	-36.29	-27.0	9.2	224	118	-

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

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

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

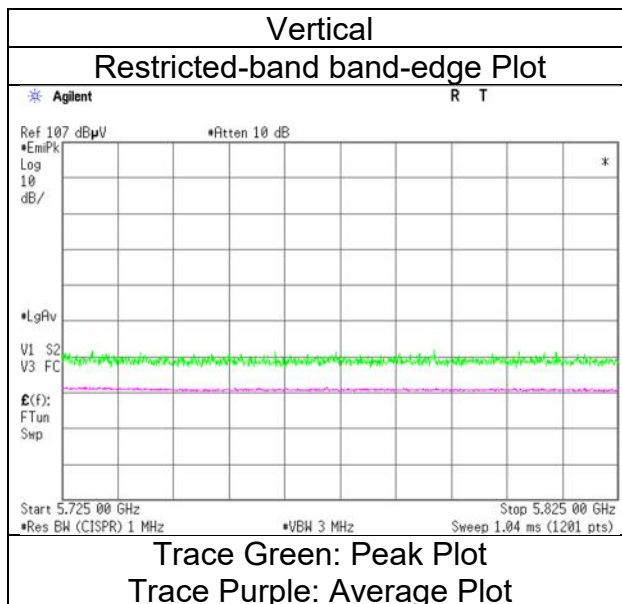
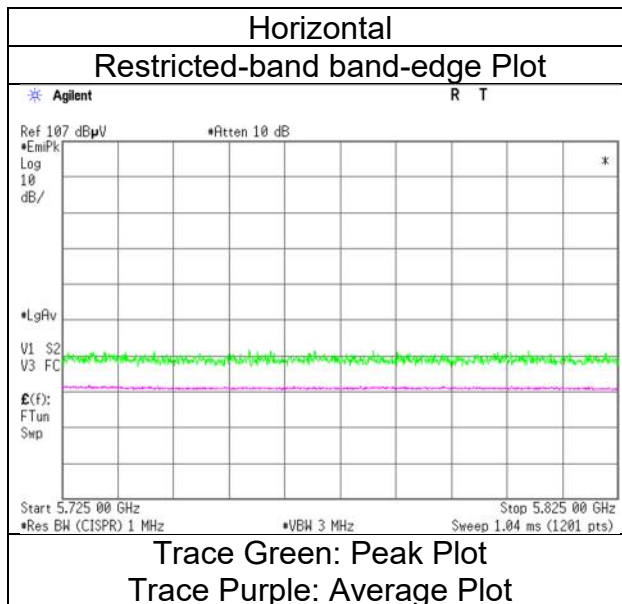
Distance factor : 1 GHz - 10 GHz : $20\text{log} (3.995 \text{ m} / 3.0 \text{ m}) = 2.49 \text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
July 11, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11a, 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11a, 5745 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.55	32.44	17.06	43.44	2.49	58.10	-37.13	-27.0	10.1	175	207	-
Hori.	5700.000	PK	48.83	32.56	17.08	43.43	2.49	57.53	-37.70	10.0	47.7	175	207	-
Hori.	5720.000	PK	48.81	32.61	17.09	43.42	2.49	57.58	-37.65	15.6	53.2	175	207	-
Hori.	5725.000	PK	49.32	32.63	17.10	43.42	2.49	58.12	-37.11	27.0	64.1	175	207	-
Vert.	5650.000	PK	48.65	32.44	17.06	43.44	2.49	57.20	-38.03	-27.0	11.0	227	212	-
Vert.	5700.000	PK	48.60	32.56	17.08	43.43	2.49	57.30	-37.93	10.0	47.9	227	212	-
Vert.	5720.000	PK	49.28	32.61	17.09	43.42	2.49	58.05	-37.18	15.6	52.7	227	212	-
Vert.	5725.000	PK	50.19	32.63	17.10	43.42	2.49	58.99	-36.24	27.0	63.2	227	212	-

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

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

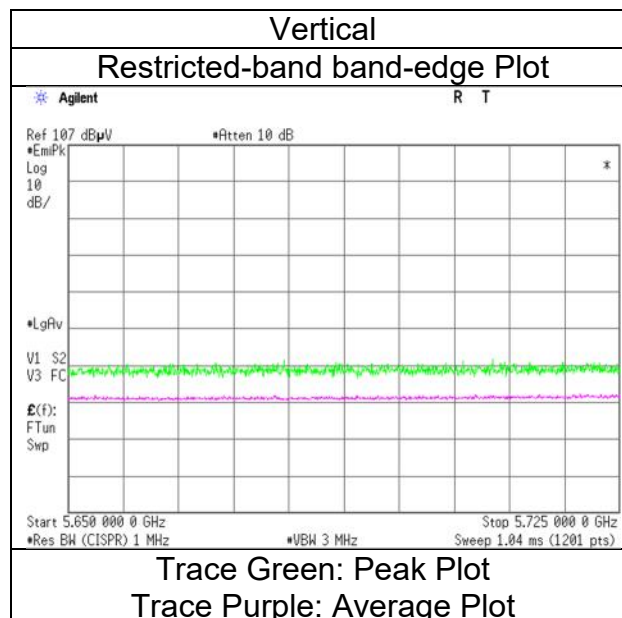
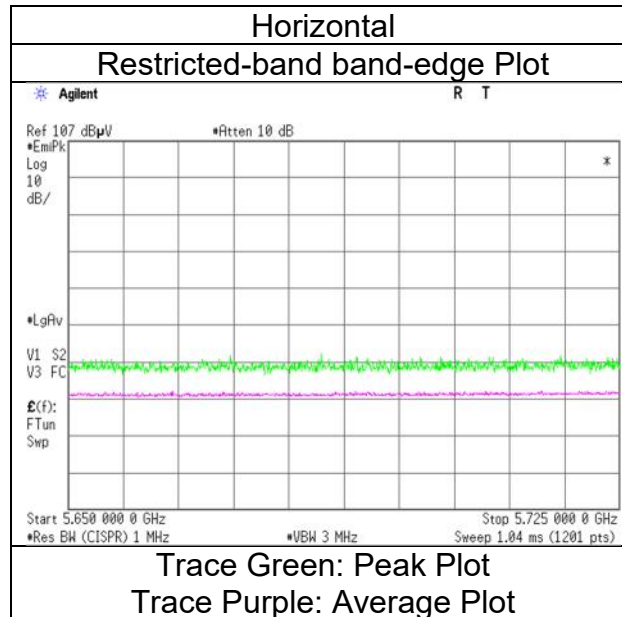
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Kouki Yamada
Mode Tx 11a, 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11a, 5825 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.93	32.94	17.17	43.39	2.49	58.14	-37.09	27.0	64.0	194	281	-
Hori.	5855.000	PK	49.01	32.95	17.17	43.39	2.49	58.23	-37.00	15.6	52.6	194	281	-
Hori.	5875.000	PK	49.60	32.98	17.21	43.39	2.49	58.89	-36.34	10.0	46.3	194	281	-
Hori.	5925.000	PK	49.19	33.06	17.23	43.38	2.49	58.59	-36.64	-27.0	9.6	194	281	-
Vert.	5850.000	PK	49.96	32.94	17.17	43.39	2.49	59.17	-36.06	27.0	63.0	152	222	-
Vert.	5855.000	PK	49.75	32.95	17.17	43.39	2.49	58.97	-36.26	15.6	51.8	152	222	-
Vert.	5875.000	PK	49.55	32.98	17.21	43.39	2.49	58.84	-36.39	10.0	46.3	152	222	-
Vert.	5925.000	PK	48.94	33.06	17.23	43.38	2.49	58.34	-36.89	-27.0	9.8	152	222	-

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

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

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

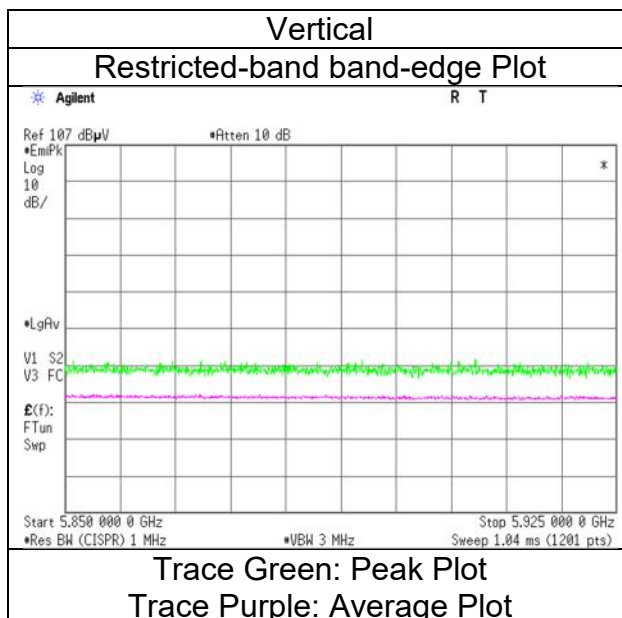
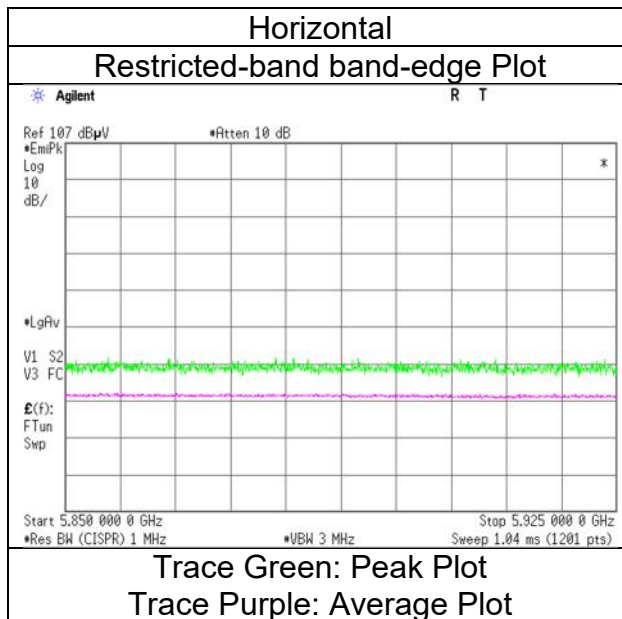
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11a, 5825 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11n-20, 5180 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.00	32.16	16.74	43.07	2.49	57.32	73.9	16.5	216	172	-
Hori.	5150.000	AV	36.53	32.16	16.74	43.07	2.49	44.85	53.9	9.0	216	172	VBW:10 Hz
Vert.	5150.000	PK	48.54	32.16	16.74	43.07	2.49	56.86	73.9	17.0	186	140	-
Vert.	5150.000	AV	36.37	32.16	16.74	43.07	2.49	44.69	53.9	9.2	186	140	VBW:10 Hz

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

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

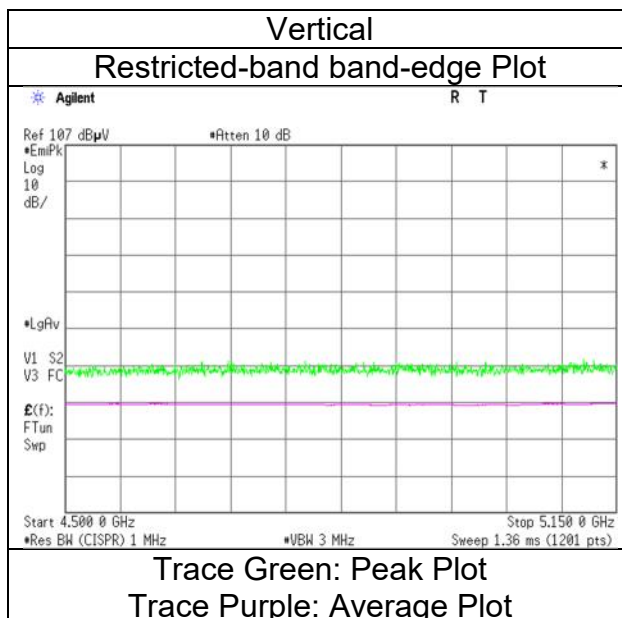
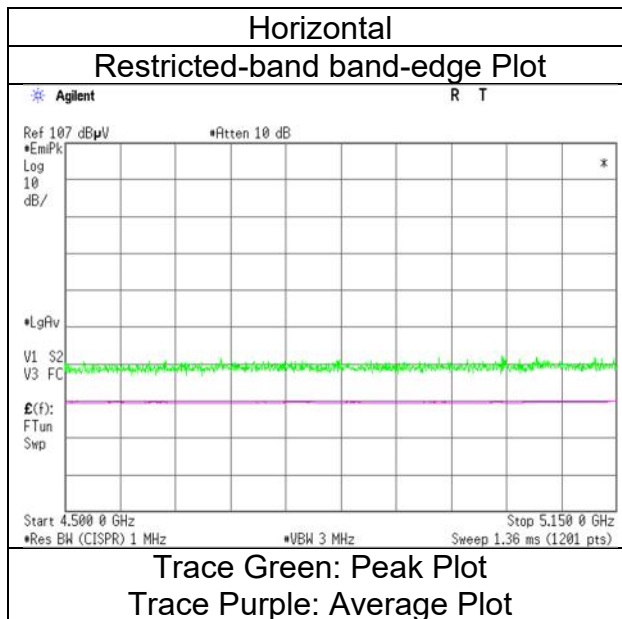
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11n-20, 5180 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11n-20, 5320 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.89	31.95	16.49	38.83	2.49	57.99	73.9	15.9	122	128	-
Hori.	5350.000	AV	33.95	31.95	16.49	38.83	2.49	46.05	53.9	7.8	122	128	VBW:10 Hz
Vert.	5350.000	PK	48.06	31.95	16.49	38.83	2.49	60.16	73.9	13.7	197	143	-
Vert.	5350.000	AV	33.83	31.95	16.49	38.83	2.49	45.93	53.9	7.9	197	143	VBW:10 Hz

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

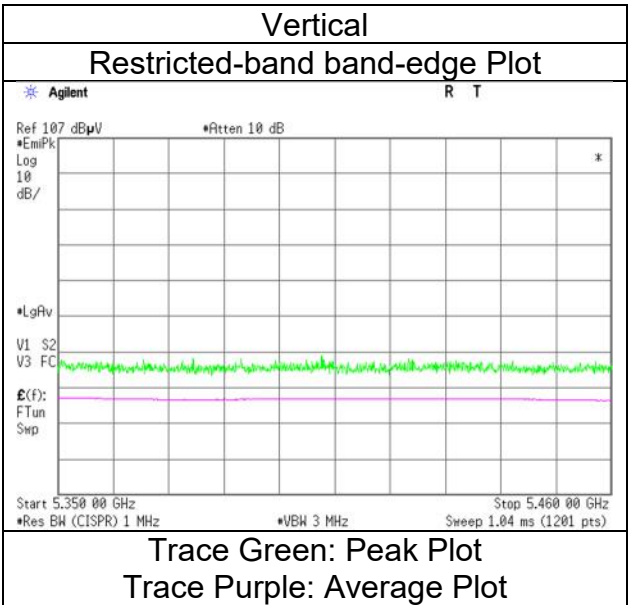
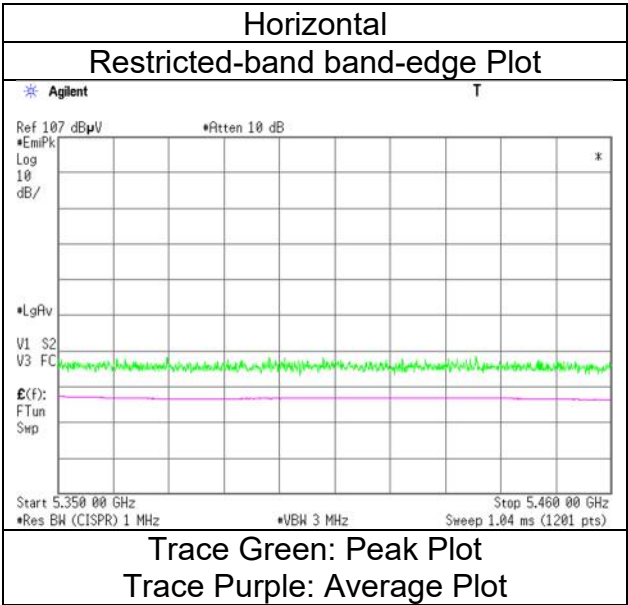
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	July 25, 2023
Temperature / Humidity	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-20, 5320 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11n-20, 5500 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [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	45.35	32.14	16.56	38.89	2.49	57.65	73.9	16.2	117	129	-
Hori.	5460.000	AV	33.12	32.14	16.56	38.89	2.49	45.42	53.9	8.4	117	129	VBW:10 Hz
Vert.	5460.000	PK	47.61	32.14	16.56	38.89	2.49	59.91	73.9	13.9	213	150	-
Vert.	5460.000	AV	33.76	32.14	16.56	38.89	2.49	46.06	53.9	7.8	213	150	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	45.41	32.15	16.57	38.89	2.49	57.73	-37.50	-27.0	10.5	117	129	-
Vert.	5470.000	PK	47.30	32.15	16.57	38.89	2.49	59.62	-35.61	-27.0	8.6	213	150	-

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).

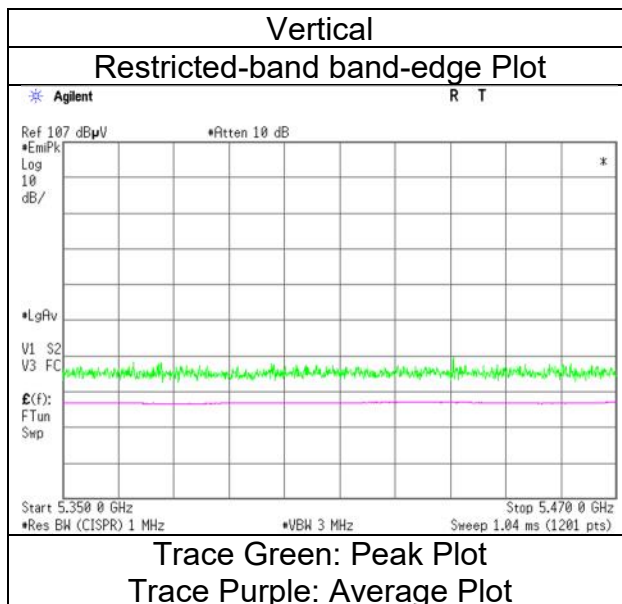
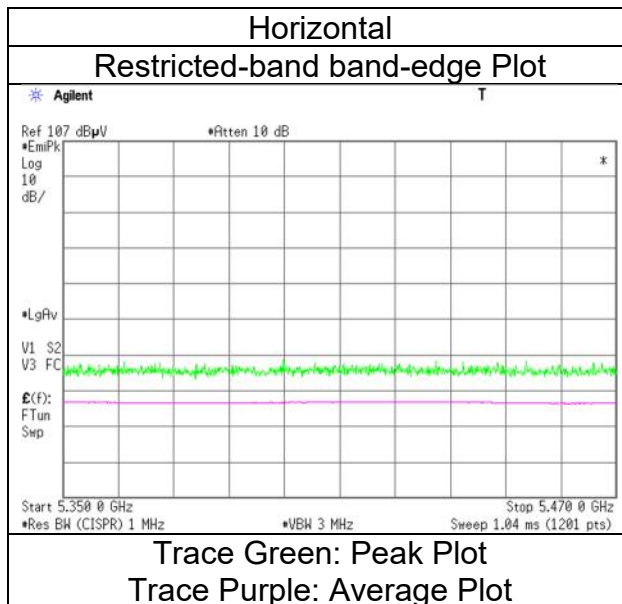
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11n-20, 5500 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11n-20, 5700 MHz

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

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

Polarity	Frequency [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	46.19	32.57	16.71	38.95	2.49	59.01	-36.22	-27.0	9.2	105	129	-
Vert.	5725.000	PK	48.38	32.57	16.71	38.95	2.49	61.20	-34.03	-27.0	7.0	213	96	-

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

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

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

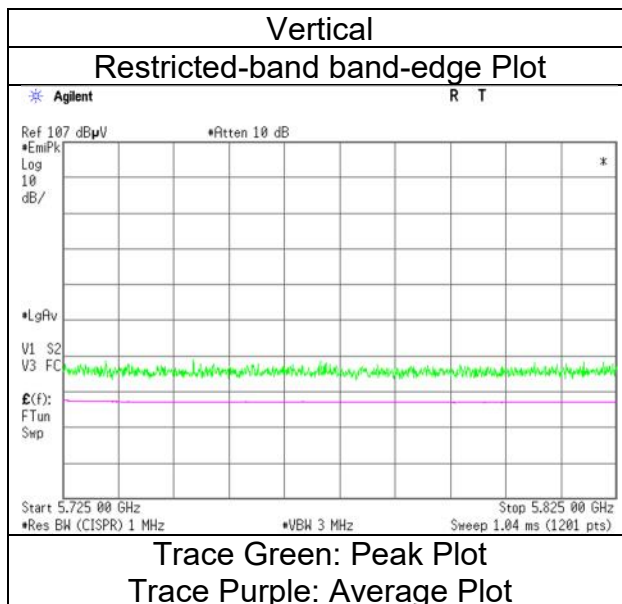
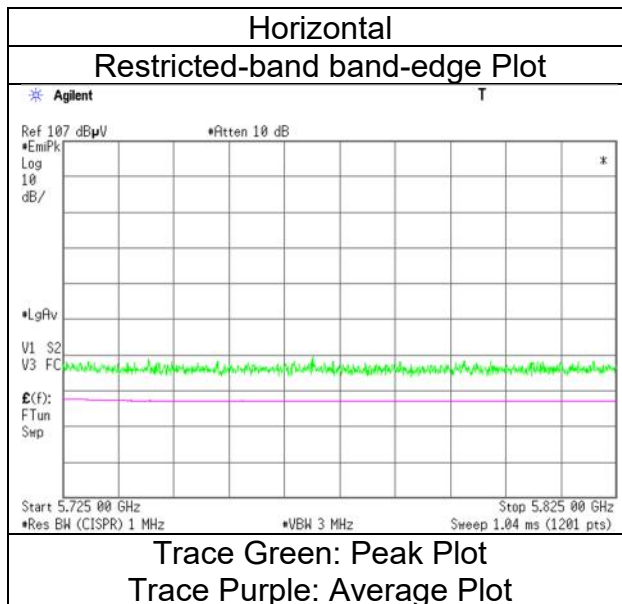
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11n-20, 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11n-20, 5745 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.59	32.44	17.06	43.44	2.49	58.14	-37.09	-27.0	10.0	229	251	-
Hori.	5700.000	PK	48.76	32.56	17.08	43.43	2.49	57.46	-37.77	10.0	47.7	229	251	-
Hori.	5720.000	PK	49.14	32.61	17.09	43.42	2.49	57.91	-37.32	15.6	52.9	229	251	-
Hori.	5725.000	PK	49.89	32.63	17.10	43.42	2.49	58.69	-36.54	27.0	63.5	229	251	-
Vert.	5650.000	PK	49.07	32.44	17.06	43.44	2.49	57.62	-37.61	-27.0	10.6	162	235	-
Vert.	5700.000	PK	48.92	32.56	17.08	43.43	2.49	57.62	-37.61	10.0	47.6	162	235	-
Vert.	5720.000	PK	49.54	32.61	17.09	43.42	2.49	58.31	-36.92	15.6	52.5	162	235	-
Vert.	5725.000	PK	50.25	32.63	17.10	43.42	2.49	59.05	-36.18	27.0	63.1	162	235	-

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

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

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

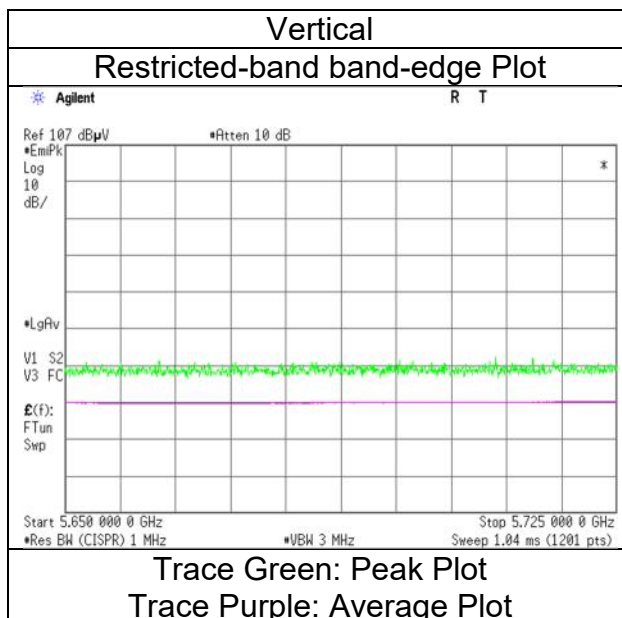
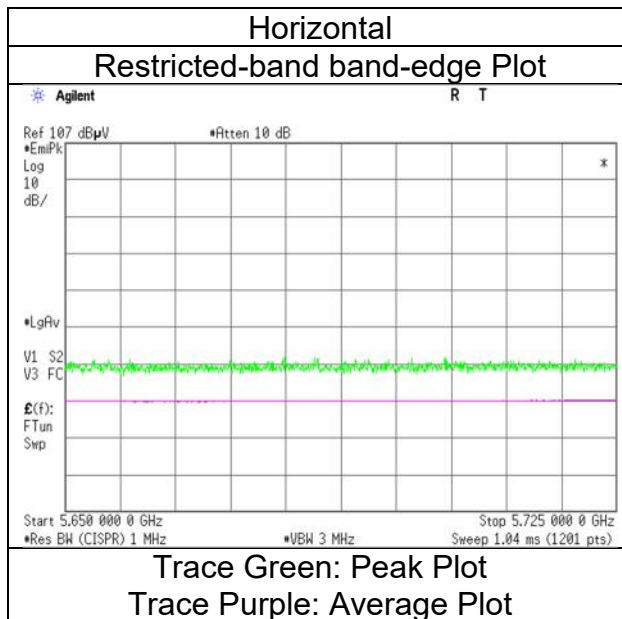
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11n-20, 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11n-20, 5825 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.41	32.94	17.17	43.39	2.49	58.62	-36.61	27.0	63.6	194	280	-
Hori.	5855.000	PK	49.22	32.95	17.17	43.39	2.49	58.44	-36.79	15.6	52.3	194	280	-
Hori.	5875.000	PK	49.18	32.98	17.21	43.39	2.49	58.47	-36.76	10.0	46.7	194	280	-
Hori.	5925.000	PK	48.69	33.06	17.23	43.38	2.49	58.09	-37.14	-27.0	10.1	194	280	-
Vert.	5850.000	PK	49.17	32.94	17.17	43.39	2.49	58.38	-36.85	27.0	63.8	179	207	-
Vert.	5855.000	PK	49.99	32.95	17.17	43.39	2.49	59.21	-36.02	15.6	51.6	179	207	-
Vert.	5875.000	PK	49.27	32.98	17.21	43.39	2.49	58.56	-36.67	10.0	46.6	179	207	-
Vert.	5925.000	PK	49.02	33.06	17.23	43.38	2.49	58.42	-36.81	-27.0	9.8	179	207	-

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

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

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

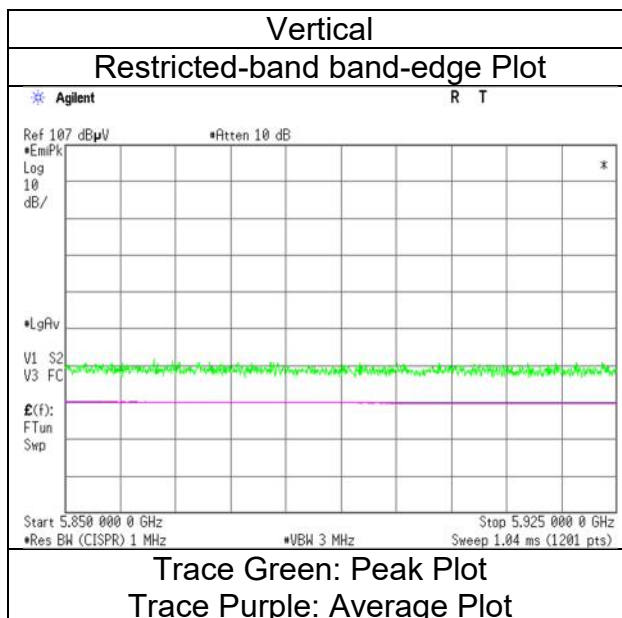
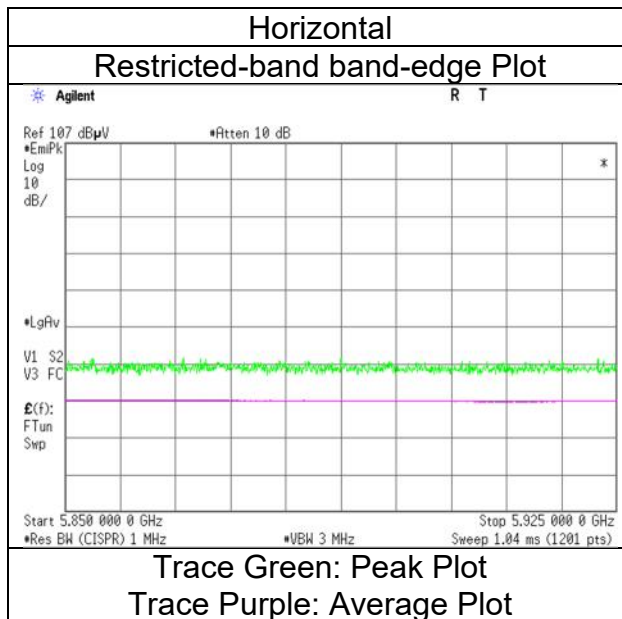
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11n-20, 5825 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ac-20, 5180 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.21	32.16	16.74	43.07	2.49	57.53	73.9	16.3	232	173	-
Hori.	5150.000	AV	36.58	32.16	16.74	43.07	2.49	44.90	53.9	9.0	232	173	VBW:10 Hz
Vert.	5150.000	PK	48.58	32.16	16.74	43.07	2.49	56.90	73.9	17.0	185	142	-
Vert.	5150.000	AV	36.42	32.16	16.74	43.07	2.49	44.74	53.9	9.1	185	142	VBW:10 Hz

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

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

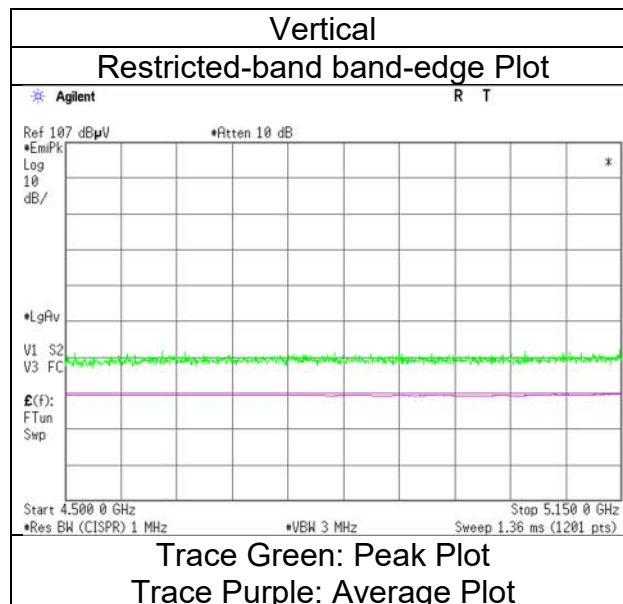
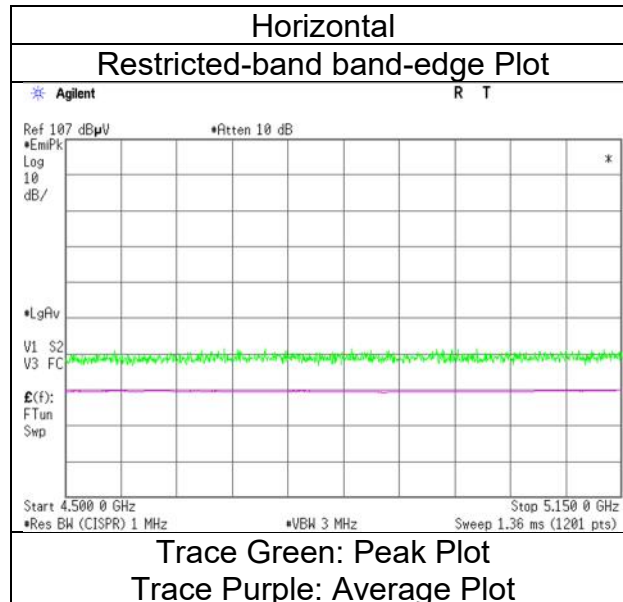
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11ac-20, 5180 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ac-20, 5320 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.50	31.95	16.49	38.83	2.49	57.60	73.9	16.3	124	129	-
Hori.	5350.000	AV	33.86	31.95	16.49	38.83	2.49	45.96	53.9	7.9	124	129	VBW:10 Hz
Vert.	5350.000	PK	47.38	31.95	16.49	38.83	2.49	59.48	73.9	14.4	171	141	-
Vert.	5350.000	AV	33.95	31.95	16.49	38.83	2.49	46.05	53.9	7.8	171	141	VBW:10 Hz

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

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

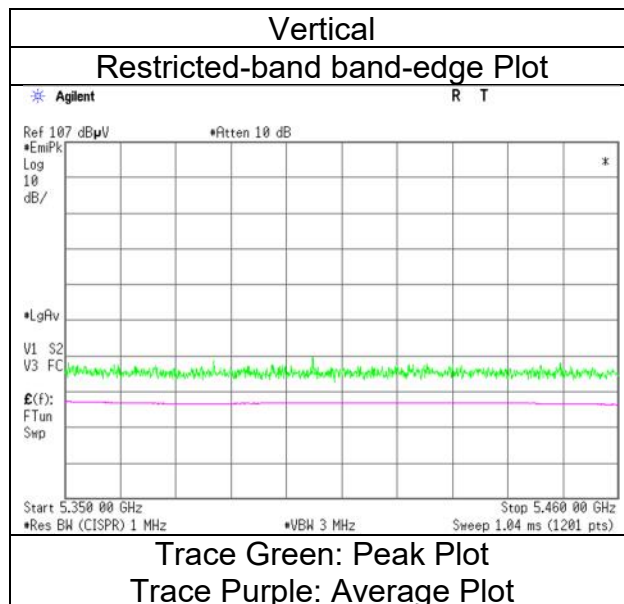
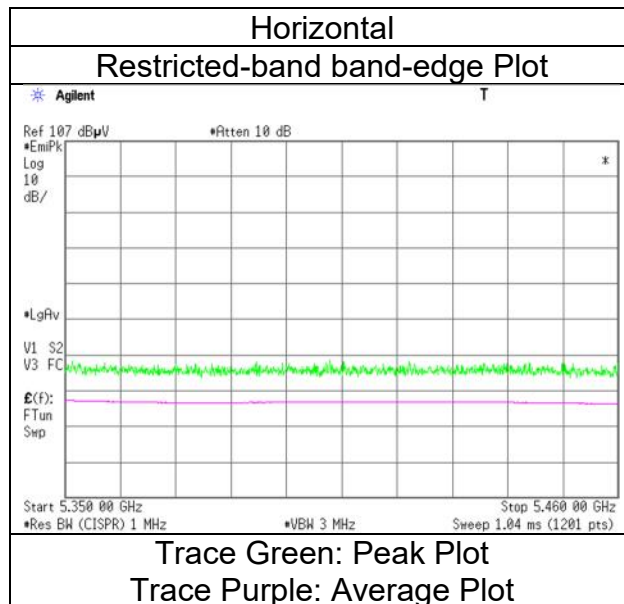
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11ac-20, 5320 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ac-20, 5500 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	46.41	32.14	16.56	38.89	2.49	58.71	73.9	15.1	139	128	-
Hori.	5460.000	AV	33.07	32.14	16.56	38.89	2.49	45.37	53.9	8.5	139	128	VBW:10 Hz
Vert.	5460.000	PK	47.30	32.14	16.56	38.89	2.49	59.60	73.9	14.3	154	142	-
Vert.	5460.000	AV	33.36	32.14	16.56	38.89	2.49	45.66	53.9	8.2	154	142	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.26	32.15	16.57	38.89	2.49	59.58	-35.65	-27.0	8.6	139	128	-
Vert.	5470.000	PK	47.23	32.15	16.57	38.89	2.49	59.55	-35.68	-27.0	8.6	154	142	-

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

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

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

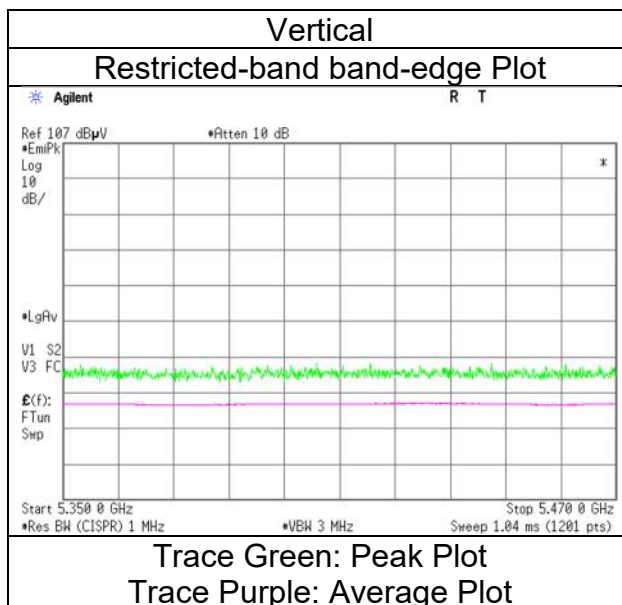
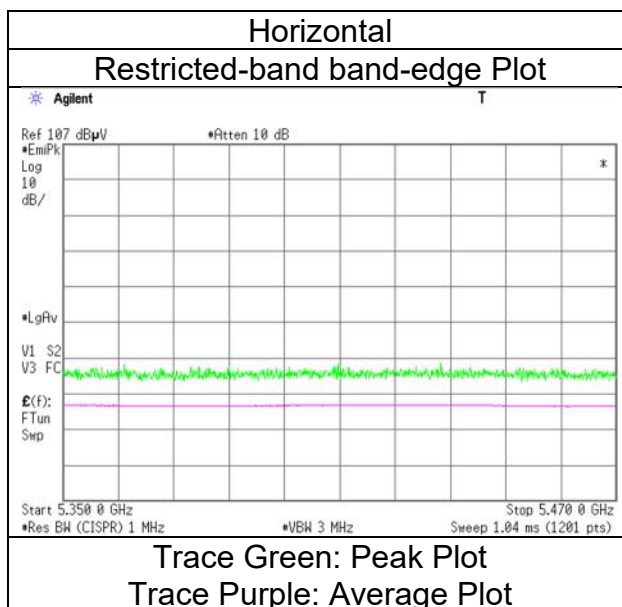
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11ac-20, 5500 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ac-20, 5700 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.21	32.57	16.71	38.95	2.49	60.03	-35.20	-27.0	8.2	106	126	-
Vert.	5725.000	PK	47.85	32.57	16.71	38.95	2.49	60.67	-34.56	-27.0	7.5	144	210	-

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

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

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

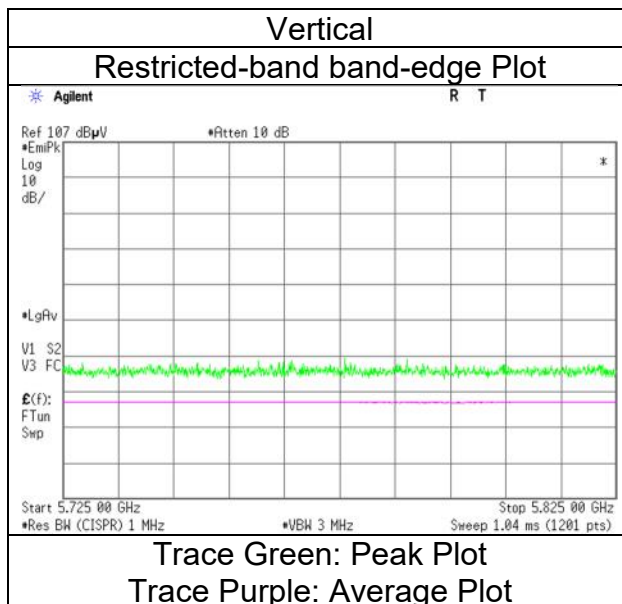
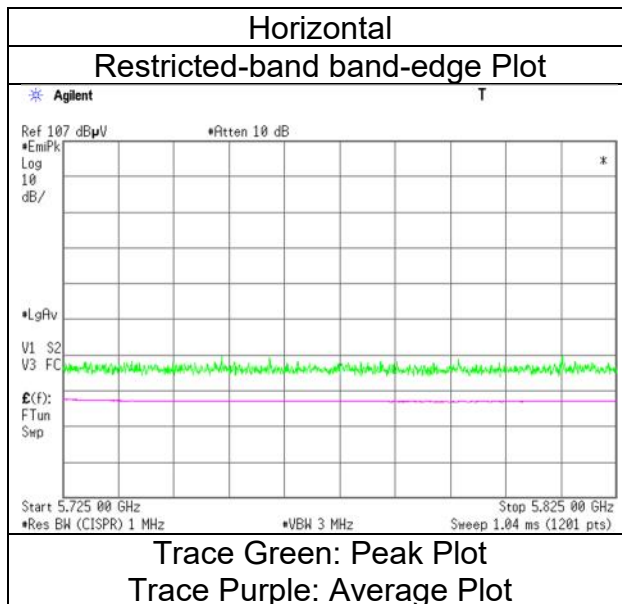
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11ac-20, 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Ken Fujita
 (1 GHz -6.4 GHz)
Mode Tx 11ac-20, 5745 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.96	32.44	17.06	43.44	2.49	57.51	-37.72	-27.0	10.7	231	282	-
Hori.	5700.000	PK	49.04	32.56	17.08	43.43	2.49	57.74	-37.49	10.0	47.4	231	282	-
Hori.	5720.000	PK	49.24	32.61	17.09	43.42	2.49	58.01	-37.22	15.6	52.8	231	282	-
Hori.	5725.000	PK	49.35	32.63	17.10	43.42	2.49	58.15	-37.08	27.0	64.0	231	282	-
Vert.	5650.000	PK	48.89	32.44	17.06	43.44	2.49	57.44	-37.79	-27.0	10.7	229	211	-
Vert.	5700.000	PK	48.50	32.56	17.08	43.43	2.49	57.20	-38.03	10.0	48.0	229	211	-
Vert.	5720.000	PK	49.90	32.61	17.09	43.42	2.49	58.67	-36.56	15.6	52.1	229	211	-
Vert.	5725.000	PK	50.30	32.63	17.10	43.42	2.49	59.10	-36.13	27.0	63.1	229	211	-

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

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

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

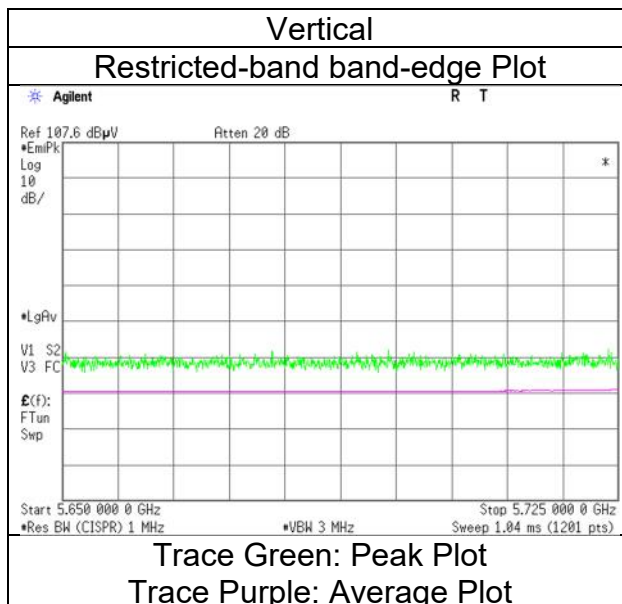
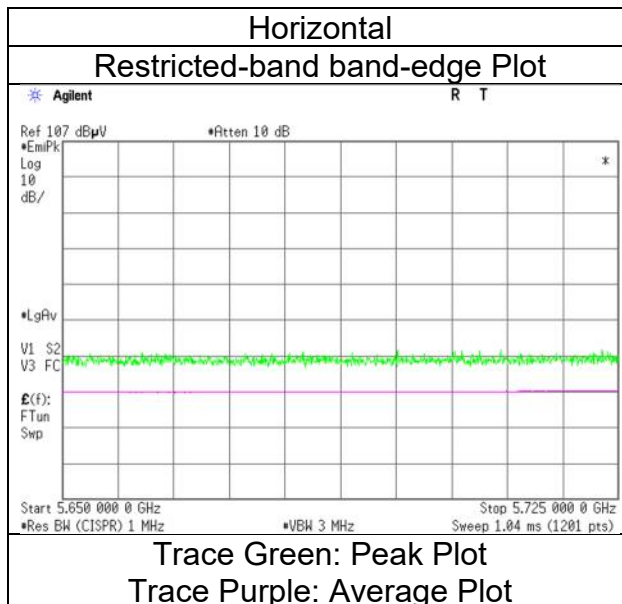
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Ken Fujita
Tx 11ac-20, 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Ken Fujita
 (1 GHz -6.4 GHz)
Mode Tx 11ac-20, 5825 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.92	32.94	17.17	43.39	2.49	59.13	-36.10	27.0	63.1	194	280	-
Hori.	5855.000	PK	49.57	32.95	17.17	43.39	2.49	58.79	-36.44	15.6	52.0	194	280	-
Hori.	5875.000	PK	49.34	32.98	17.21	43.39	2.49	58.63	-36.60	10.0	46.6	194	280	-
Hori.	5925.000	PK	49.11	33.06	17.23	43.38	2.49	58.51	-36.72	-27.0	9.7	194	280	-
Vert.	5850.000	PK	49.59	32.94	17.17	43.39	2.49	58.80	-36.43	27.0	63.4	302	121	-
Vert.	5855.000	PK	48.83	32.95	17.17	43.39	2.49	58.05	-37.18	15.6	52.7	302	121	-
Vert.	5875.000	PK	49.67	32.98	17.21	43.39	2.49	58.96	-36.27	10.0	46.2	302	121	-
Vert.	5925.000	PK	49.63	33.06	17.23	43.38	2.49	59.03	-36.20	-27.0	9.2	302	121	-

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

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

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

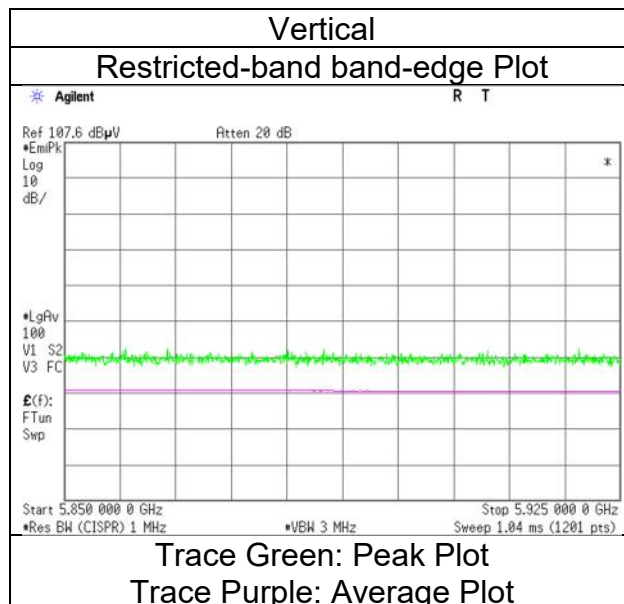
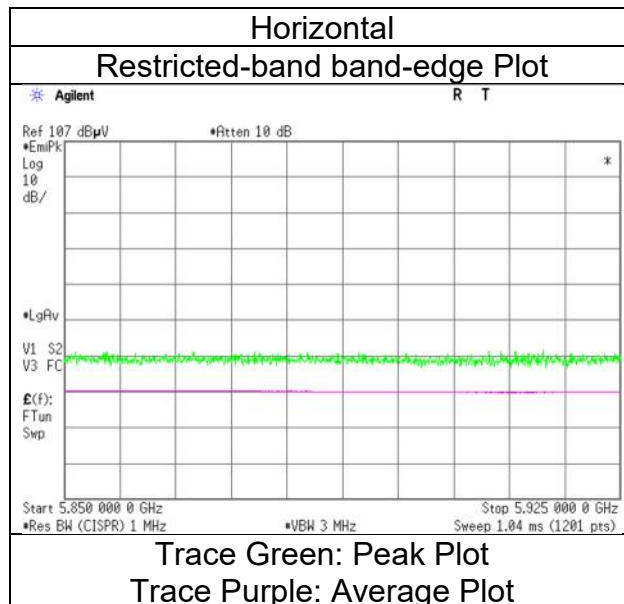
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Ken Fujita
Tx 11ac-20, 5825 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 16, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	24 deg.C, 51 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Ken Fujita	Hiromasa Sato	Ken Fujita	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-20 (OFDM), 5180 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)

(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	48.53	32.16	16.74	43.07	2.49	56.85	73.9	17.0	193	98	-
Hori.	15540.000	PK	47.23	39.48	11.84	40.53	-9.54	48.48	73.9	25.4	150	0	-
Hori.	5150.000	AV	36.62	32.16	16.74	43.07	2.49	44.94	53.9	8.9	193	98	VBW:10 Hz
Hori.	15540.000	AV	34.51	39.48	11.84	40.53	-9.54	35.76	53.9	18.1	150	0	Floor Noise
Vert.	5150.000	PK	49.89	32.16	16.74	43.07	2.49	58.21	73.9	15.6	315	132	-
Vert.	15540.000	PK	47.33	39.48	11.84	40.53	-9.54	48.58	73.9	25.3	150	0	-
Vert.	5150.000	AV	36.14	32.16	16.74	43.07	2.49	44.46	53.9	9.4	315	132	VBW:10 Hz
Vert.	15540.000	AV	33.96	39.48	11.84	40.53	-9.54	35.21	53.9	18.6	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10360.000	PK	48.21	36.36	9.48	42.84	-9.54	41.67	-53.56	-27.0	26.5	150	0	-
Hori.	36260.000	PK	57.89	43.67	19.82	67.89	-9.54	43.95	-51.28	-27.0	24.2	295	178	-
Vert.	10360.000	PK	48.15	36.36	9.48	42.84	-9.54	41.61	-53.62	-27.0	26.6	150	0	-
Vert.	36260.000	PK	59.27	43.67	19.82	67.89	-9.54	45.33	-49.90	-27.0	22.9	147	183	-

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

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

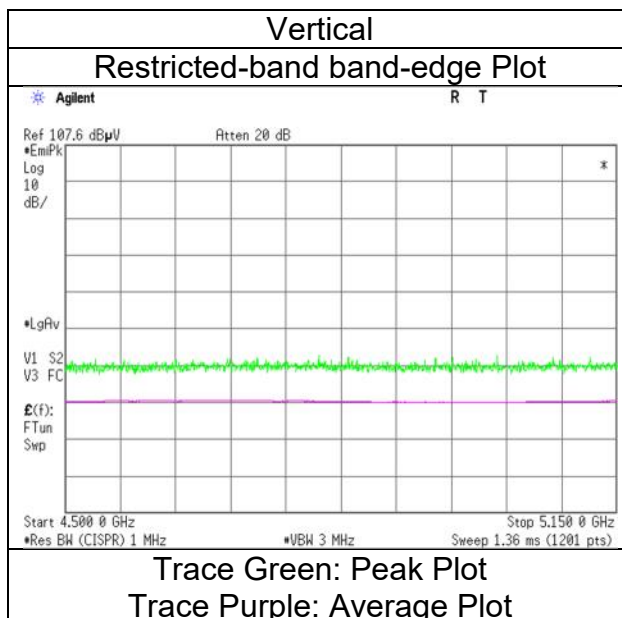
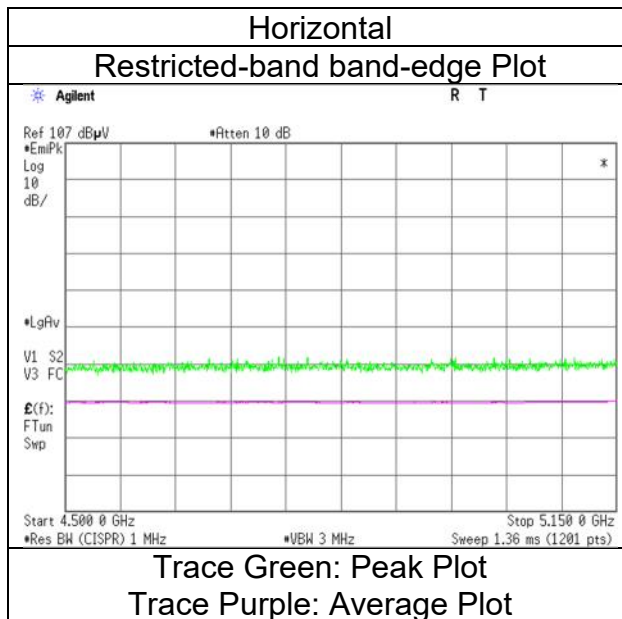
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	June 16, 2023
Temperature / Humidity	24 deg.C, 51 %RH
Engineer	Ken Fujita
Mode	Tx 11ax-20 (OFDM), 5180 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 16, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	24 deg.C, 51 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Ken Fujita	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 (OFDM), 5240 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15720.000	PK	46.15	39.63	11.79	40.56	-9.54	47.47	73.9	26.4	150	0	-
Hori.	15720.000	AV	35.46	39.63	11.79	40.56	-9.54	36.78	53.9	17.1	150	0	Floor Noise
Vert.	15720.000	PK	46.44	39.63	11.79	40.56	-9.54	47.76	73.9	26.1	150	0	-
Vert.	15720.000	AV	33.39	39.63	11.79	40.56	-9.54	34.71	53.9	19.1	150	0	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 : $20\log(3.995 \text{ m} / 3.0 \text{ m}) = 2.49 \text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10480.000	PK	47.50	36.51	9.52	42.84	-9.54	41.15	-54.08	-27.0	27.0	150	0	-
Hori.	36680.000	PK	57.89	43.75	19.95	68.94	-9.54	43.11	-52.12	-27.0	25.1	149	60	-
Vert.	10480.000	PK	48.87	36.51	9.52	42.84	-9.54	42.52	-52.71	-27.0	25.7	150	0	-
Vert.	36680.000	PK	59.43	43.75	19.95	68.94	-9.54	44.65	-50.58	-27.0	23.5	155	81	-

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

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

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

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	SAC 2	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	July 25, 2023	June 16, 2023	June 20, 2023	June 21, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	23 deg.C, 50 %RH	24 deg.C, 51 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH	23 deg.C, 44 %RH
Engineer	Yohsuke Matsuzawa	Ken Fujita	Hiromasa Sato	Ken Fujita	Hiromasa Sato	Hiromasa Sato
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 (OFDM), 5320 MHz					

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	46.00	31.95	16.49	38.83	2.49	58.10	73.9	15.8	121	128	-
Hori.	10640.000	PK	47.87	37.12	9.59	42.86	-9.54	42.18	73.9	31.7	150	0	-
Hori.	15960.000	PK	47.76	40.08	11.73	40.60	-9.54	49.43	73.9	24.4	150	0	-
Hori.	5350.000	AV	33.93	31.95	16.49	38.83	2.49	46.03	53.9	7.8	121	128	VBW:10 Hz
Hori.	10640.000	AV	36.77	37.12	9.59	42.86	-9.54	31.08	53.9	22.8	150	0	Floor Noise
Hori.	15960.000	AV	35.83	40.08	11.73	40.60	-9.54	37.50	53.9	16.4	150	0	Floor Noise
Vert.	5350.000	PK	47.10	31.95	16.49	38.83	2.49	59.20	73.9	14.7	221	145	-
Vert.	10640.000	PK	48.52	37.12	9.59	42.86	-9.54	42.83	73.9	31.0	150	0	-
Vert.	15960.000	PK	47.07	40.08	11.73	40.60	-9.54	48.74	73.9	25.1	150	0	-
Vert.	5350.000	AV	33.98	31.95	16.49	38.83	2.49	46.08	53.9	7.8	221	145	VBW:10 Hz
Vert.	10640.000	AV	35.40	37.12	9.59	42.86	-9.54	29.71	53.9	24.1	150	0	Floor Noise
Vert.	15960.000	AV	34.21	40.08	11.73	40.60	-9.54	35.88	53.9	18.0	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	37240.000	PK	61.11	43.66	20.20	70.01	-9.54	45.42	-49.81	-27.0	22.8	174	334	-
Vert.	37240.000	PK	62.12	43.66	20.20	70.01	-9.54	46.43	-48.80	-27.0	21.8	171	82	-

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

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

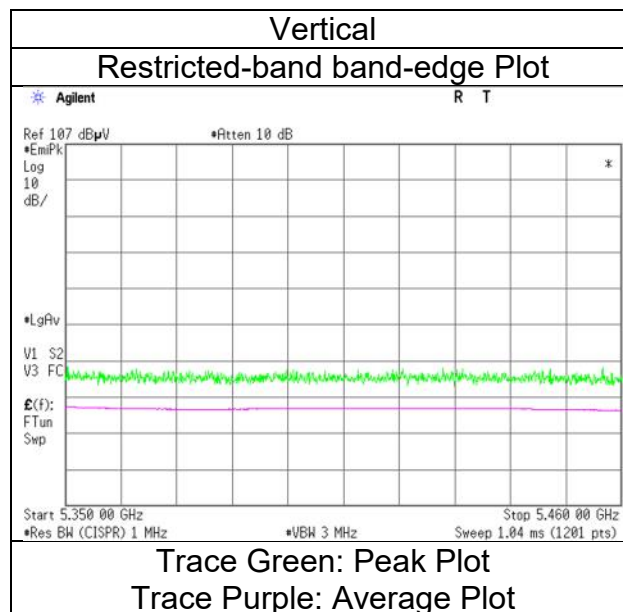
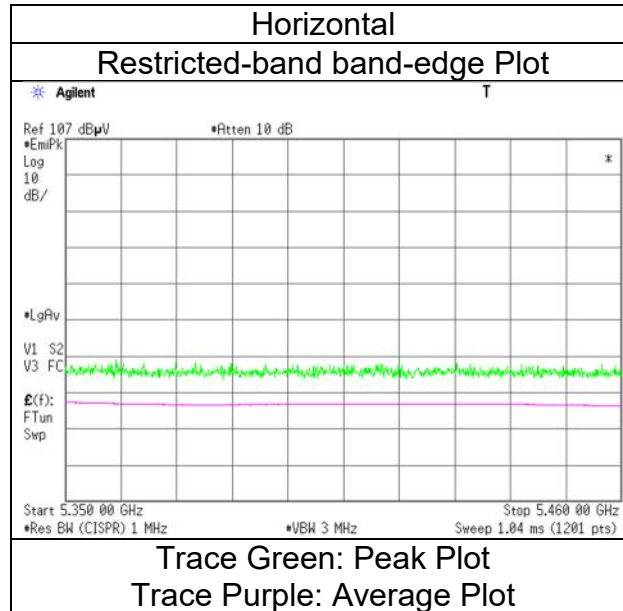
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	July 25, 2023
Temperature / Humidity	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5320 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	SAC 2	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	July 25, 2023	June 16, 2023	October 26, 2023	June 21, 2023	October 29, 2023	October 29, 2023
Temperature / Humidity	23 deg.C, 50 %RH	24 deg.C, 51 %RH	23 deg.C, 40 %RH	24 deg.C, 43 %RH	23 deg.C, 50 %RH	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa	Ken Fujita	Yasumasa Owaki	Ken Fujita	Yohsuke Matsuzawa	Yohsuke Matsuzawa
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 (OFDM), 5500 MHz					

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	45.46	32.14	16.56	38.89	2.49	57.76	73.9	16.1	118	127	-
Hori.	11000.000	PK	58.75	37.58	9.72	42.90	-9.54	53.61	73.9	20.2	118	22	-
Hori.	5460.000	AV	33.24	32.14	16.56	38.89	2.49	45.54	53.9	8.3	118	127	VBW:10 Hz
Hori.	11000.000	AV	44.01	37.58	9.72	42.90	-9.54	38.87	53.9	15.0	118	22	VBW:10 Hz
Vert.	5460.000	PK	46.78	32.14	16.56	38.89	2.49	59.08	73.9	14.8	209	140	-
Vert.	11000.000	PK	56.52	37.58	9.72	42.90	-9.54	51.38	73.9	22.5	101	298	-
Vert.	5460.000	AV	33.28	32.14	16.56	38.89	2.49	45.58	53.9	8.3	209	140	VBW:10 Hz
Vert.	11000.000	AV	41.83	37.58	9.72	42.90	-9.54	36.69	53.9	17.2	101	298	VBW:10 Hz

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

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

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

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

(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	45.46	32.15	16.57	38.89	2.49	57.78	-37.45	-27.0	10.4	118	127	-
Hori.	16500.000	PK	47.45	40.19	12.45	40.65	-9.54	49.90	-45.33	-27.0	18.3	150	0	-
Hori.	38500.000	PK	62.58	44.08	20.71	70.95	-9.54	46.88	-48.35	-27.0	21.3	150	266	-
Vert.	5470.000	PK	48.05	32.15	16.57	38.89	2.49	60.37	-34.86	-27.0	7.8	209	140	-
Vert.	16500.000	PK	47.17	40.19	12.45	40.65	-9.54	49.62	-45.61	-27.0	18.6	150	0	-
Vert.	38500.000	PK	64.11	44.08	20.71	70.95	-9.54	48.41	-46.82	-27.0	19.8	171	248	-

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

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

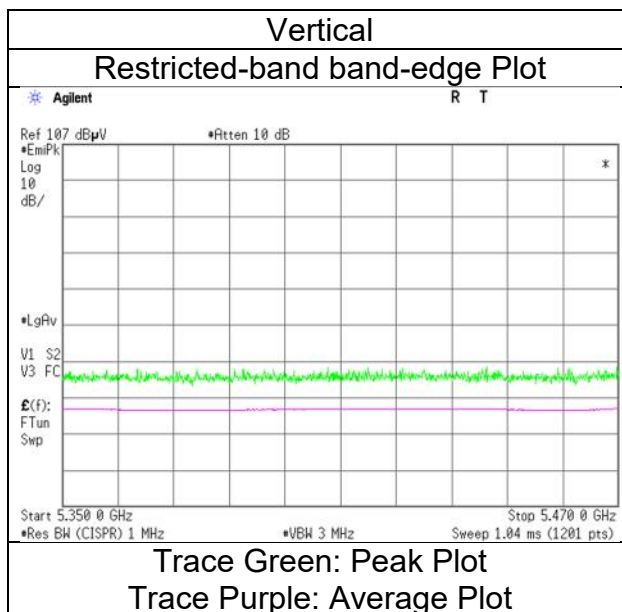
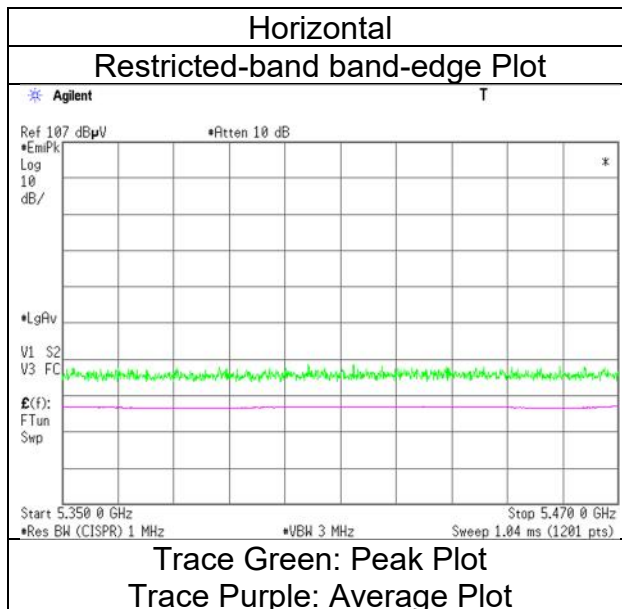
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	July 25, 2023
Temperature / Humidity	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5500 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	July 12, 2023	June 16, 2023	October 26, 2023	June 21, 2023	October 29, 2023	
Temperature / Humidity	22 deg.C, 47 %RH	24 deg.C, 51 %RH	23 deg.C, 40 %RH	24 deg.C, 43 %RH	23 deg.C, 50 %RH	
Engineer	Shiro Kobayashi	Ken Fujita	Yasumasa Owaki	Ken Fujita	Yohsuke Matsuzawa	
Mode	(1 GHz -6.4 GHz) (6.4 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz - 40 GHz)					
	Tx 11ax-20 (OFDM), 5580 MHz					

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11160.000	PK	56.29	37.72	9.81	42.80	-9.54	51.48	73.9	22.4	120	13	-
Hori.	39060.000	PK	60.05	44.07	20.66	69.10	-9.54	46.14	73.9	27.7	183	263	-
Hori.	11160.000	AV	41.74	37.72	9.81	42.80	-9.54	36.93	53.9	16.9	120	13	VBW: 10 Hz
Hori.	39060.000	AV	51.12	44.07	20.66	69.10	-9.54	37.21	53.9	16.6	183	263	VBW: 10 Hz
Vert.	11160.000	PK	54.27	37.72	9.81	42.80	-9.54	49.46	73.9	24.4	104	288	-
Vert.	39060.000	PK	62.78	44.07	20.66	69.10	-9.54	48.87	73.9	25.0	181	75	-
Vert.	11160.000	AV	40.67	37.72	9.81	42.80	-9.54	35.86	53.9	18.0	104	288	VBW: 10 Hz
Vert.	39060.000	AV	57.37	44.07	20.66	69.10	-9.54	43.46	53.9	10.4	181	75	VBW: 10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	47.26	39.61	12.52	40.57	-9.54	49.28	-45.95	-27.0	18.9	150	0	-
Vert.	16740.000	PK	47.93	39.61	12.52	40.57	-9.54	49.95	-45.28	-27.0	18.2	150	0	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	SAC 2	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	July 25, 2023	July 7, 2023	October 26, 2023	June 21, 2023	October 29, 2023	
Temperature / Humidity	23 deg.C, 50 %RH	22 deg.C, 52 %RH	23 deg.C, 40 %RH	24 deg.C, 43 %RH	23 deg.C, 50 %RH	
Engineer	Yohsuke Matsuzawa	Hiromasa Sato	Yasumasa Owaki	Ken Fujita	Yohsuke Matsuzawa	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 (OFDM), 5700 MHz					

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11400.000	PK	50.96	38.26	9.93	42.64	-9.54	46.97	73.9	26.9	121	36	-
Hori.	39900.000	PK	58.36	44.14	20.85	66.59	-9.54	47.22	73.9	26.6	187	220	-
Hori.	11400.000	AV	36.05	38.26	9.93	42.64	-9.54	32.06	53.9	21.8	121	36	VBW: 10 Hz
Hori.	39900.000	AV	49.27	44.14	20.85	66.59	-9.54	38.13	53.9	15.7	187	220	VBW: 10 Hz
Vert.	11400.000	PK	50.17	38.26	9.93	42.64	-9.54	46.18	73.9	27.7	100	282	-
Vert.	39900.000	PK	61.35	44.14	20.85	66.59	-9.54	50.21	73.9	23.6	183	74	-
Vert.	11400.000	AV	35.73	38.26	9.93	42.64	-9.54	31.74	53.9	22.1	100	282	VBW: 10 Hz
Vert.	39900.000	AV	55.50	44.14	20.85	66.59	-9.54	44.36	53.9	9.5	183	74	VBW: 10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.05	32.63	17.10	43.42	2.49	58.85	-36.38	-27.0	9.3	152	249	-
Hori.	5725.000	PK	46.00	32.57	16.71	38.95	2.49	58.82	-36.41	-27.0	9.4	105	128	-
Hori.	17100.000	PK	46.98	39.85	12.65	40.42	-9.54	49.52	-45.71	-27.0	18.7	150	0	-
Vert.	5725.000	PK	50.09	32.63	17.10	43.42	2.49	58.89	-36.34	-27.0	9.3	235	136	-
Vert.	5725.000	PK	47.62	32.57	16.71	38.95	2.49	60.44	-34.79	-27.0	7.7	198	248	-
Vert.	17100.000	PK	47.15	39.85	12.65	40.42	-9.54	49.69	-45.54	-27.0	18.5	150	0	-

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

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

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

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 16, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	24 deg.C, 51 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Ken Fujita	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 (OFDM), 5745 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11490.000	PK	47.36	38.32	10.01	42.59	-9.54	43.56	73.9	30.3	150	0	-
Hori.	11490.000	AV	36.46	38.32	10.01	42.59	-9.54	32.66	53.9	21.2	150	0	Floor Noise
Vert.	11490.000	PK	47.70	38.32	10.01	42.59	-9.54	43.90	73.9	30.0	150	0	-
Vert.	11490.000	AV	34.52	38.32	10.01	42.59	-9.54	30.72	53.9	23.1	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.92	32.44	17.06	43.44	2.49	58.47	-36.76	-27.0	9.7	185	286	-
Hori.	5700.000	PK	49.61	32.56	17.08	43.43	2.49	58.31	-36.92	10.0	46.9	185	286	-
Hori.	5720.000	PK	50.69	32.61	17.09	43.42	2.49	59.46	-35.77	15.6	51.3	185	286	-
Hori.	5725.000	PK	52.05	32.63	17.10	43.42	2.49	60.85	-34.38	27.0	61.3	185	286	-
Hori.	17235.000	PK	48.37	40.07	12.72	40.33	-9.54	51.29	-43.94	-27.0	16.9	150	0	-
Vert.	5650.000	PK	49.78	32.44	17.06	43.44	2.49	58.33	-36.90	-27.0	9.9	247	99	-
Vert.	5700.000	PK	50.32	32.56	17.08	43.43	2.49	59.02	-36.21	10.0	46.2	247	99	-
Vert.	5720.000	PK	50.80	32.61	17.09	43.42	2.49	59.57	-35.66	15.6	51.2	247	99	-
Vert.	5725.000	PK	51.18	32.63	17.10	43.42	2.49	59.98	-35.25	27.0	62.2	247	99	-
Vert.	17235.000	PK	47.13	40.07	12.72	40.33	-9.54	50.05	-45.18	-27.0	18.1	150	0	-

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

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

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

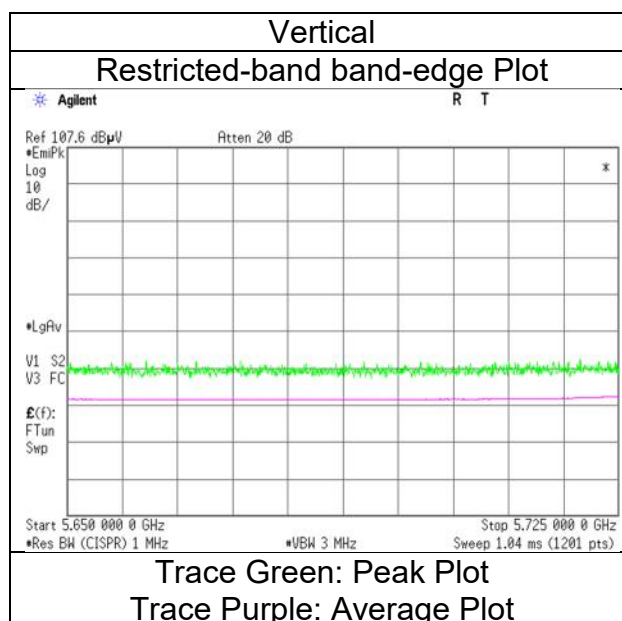
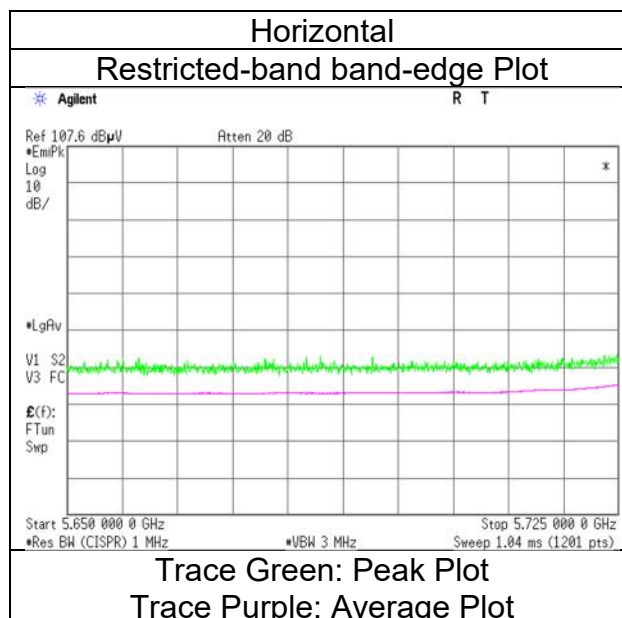
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Ken Fujita
Tx 11ax-20 (OFDM), 5745 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 16, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	24 deg.C, 51 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Ken Fujita	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 (OFDM), 5785 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11570.000	PK	48.46	38.33	10.05	42.55	-9.54	44.75	73.9	29.1	150	0	-
Hori.	11570.000	AV	36.01	38.33	10.05	42.55	-9.54	32.30	53.9	21.6	150	0	Floor Noise
Vert.	11570.000	PK	48.11	38.33	10.05	42.55	-9.54	44.40	73.9	29.5	150	0	-
Vert.	11570.000	AV	35.05	38.33	10.05	42.55	-9.54	31.34	53.9	22.5	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	47.27	40.18	12.78	40.26	-9.54	50.43	-44.80	-27.0	17.8	150	0	-
Vert.	17355.000	PK	48.16	40.18	12.78	40.26	-9.54	51.32	-43.91	-27.0	16.9	150	0	-

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

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

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

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 16, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	24 deg.C, 51 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Ken Fujita	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 (OFDM), 5825 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	47.21	38.33	10.10	42.51	-9.54	43.59	73.9	30.3	150	0	-
Hori.	11650.000	AV	36.24	38.33	10.10	42.51	-9.54	32.62	53.9	21.2	150	0	Floor Noise
Vert.	11650.000	PK	48.43	38.33	10.10	42.51	-9.54	44.81	73.9	29.0	150	0	-
Vert.	11650.000	AV	35.11	38.33	10.10	42.51	-9.54	31.49	53.9	22.4	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	51.27	32.94	17.17	43.39	2.49	60.48	-34.75	27.0	61.7	185	282	-
Hori.	5855.000	PK	51.90	32.95	17.17	43.39	2.49	61.12	-34.11	15.6	49.7	185	282	-
Hori.	5875.000	PK	49.88	32.98	17.21	43.39	2.49	59.17	-36.06	10.0	46.0	185	282	-
Hori.	5925.000	PK	48.91	33.06	17.23	43.38	2.49	58.31	-36.92	-27.0	9.9	185	282	-
Hori.	17475.000	PK	47.12	40.28	12.84	40.18	-9.54	50.52	-44.71	-27.0	17.7	150	0	-
Vert.	5850.000	PK	50.13	32.94	17.17	43.40	2.49	59.33	-35.90	27.0	62.9	224	208	-
Vert.	5855.000	PK	49.85	32.95	17.17	43.39	2.49	59.07	-36.16	15.6	51.7	224	208	-
Vert.	5875.000	PK	49.77	32.98	17.21	43.39	2.49	59.06	-36.17	10.0	46.1	224	208	-
Vert.	5925.000	PK	49.75	33.06	17.23	43.38	2.49	59.15	-36.08	-27.0	9.0	224	208	-
Vert.	17475.000	PK	47.75	40.28	12.84	40.18	-9.54	51.15	-44.08	-27.0	17.0	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).

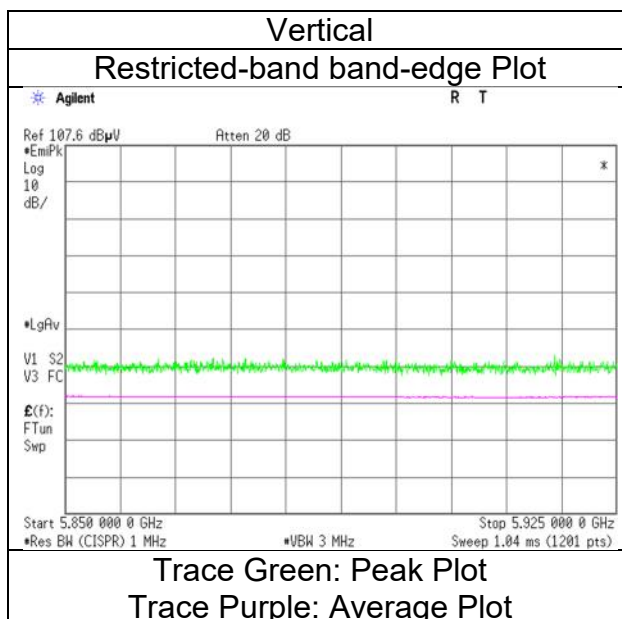
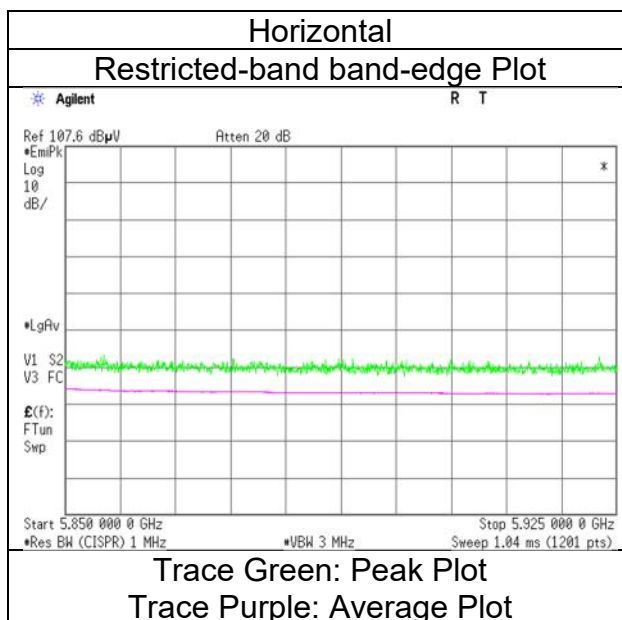
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Ken Fujita
Tx 11ax-20 (OFDM), 5825 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5180 MHz

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.80	32.16	16.71	43.07	2.49	59.09	73.9	14.8	173	119	-
Hori.	5150.000	AV	36.87	32.16	16.71	43.07	2.49	45.16	53.9	8.7	173	119	VBW: 10 Hz
Vert.	5150.000	PK	49.46	32.16	16.71	43.07	2.49	57.75	73.9	16.1	194	139	-
Vert.	5150.000	AV	36.63	32.16	16.71	43.07	2.49	44.92	53.9	8.9	194	139	VBW: 10 Hz

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

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

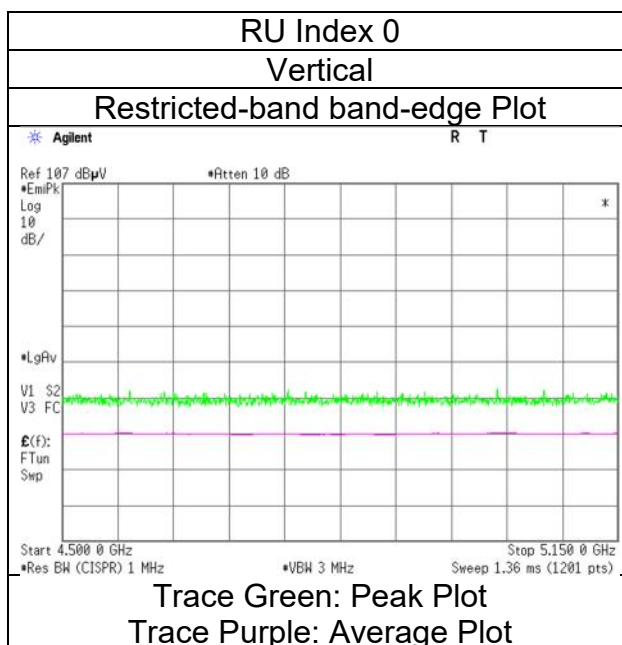
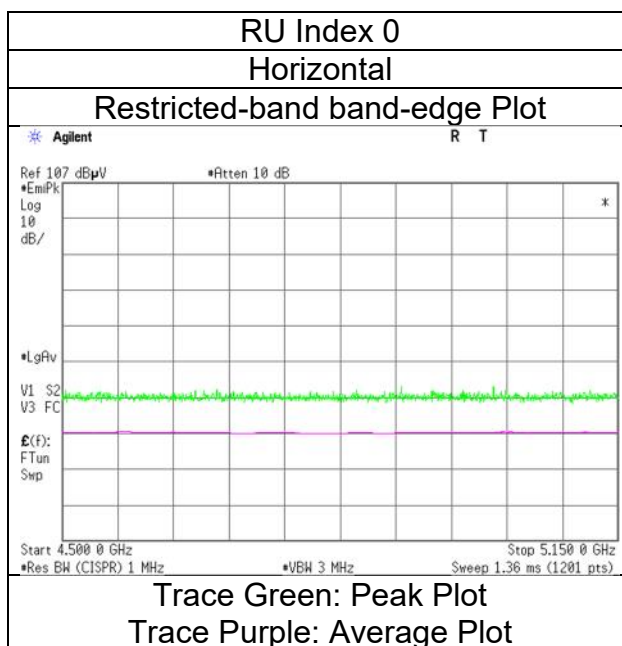
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
October 2, 2023
23 deg. C / 40 % RH
Yohsuke Matsuzawa
Tx 11ax-20 (OFDMA) 26-tone RU, 5180 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 19, 2023
Temperature / Humidity 22 deg.C, 52 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5180 MHz

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.17	32.16	16.71	43.07	2.49	58.46	73.9	15.4	147	123	-
Hori.	5150.000	AV	36.87	32.16	16.71	43.07	2.49	45.16	53.9	8.7	147	123	VBW:10 Hz
Vert.	5150.000	PK	50.68	32.16	16.71	43.07	2.49	58.97	73.9	14.9	263	219	-
Vert.	5150.000	AV	36.83	32.16	16.71	43.07	2.49	45.12	53.9	8.7	263	219	VBW:10 Hz

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

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

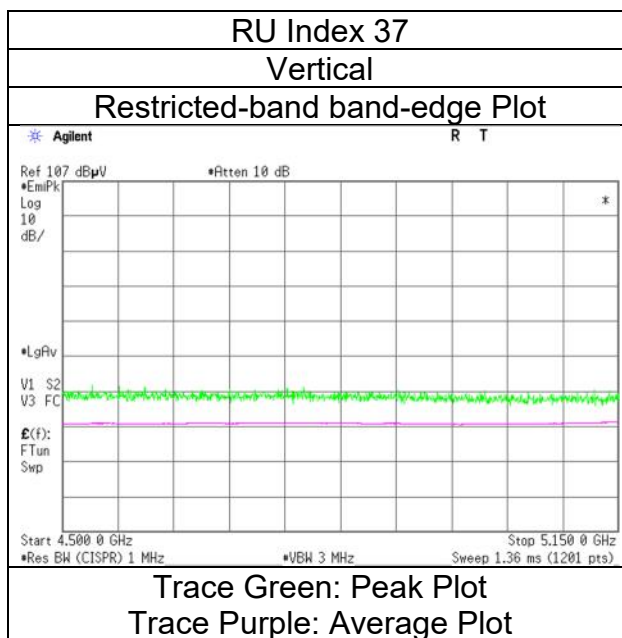
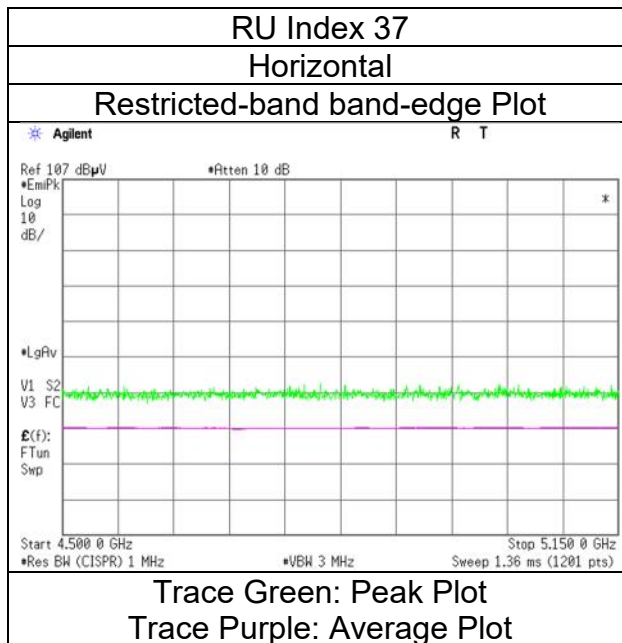
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 19, 2023
22 deg.C, 52 %RH
Akihiro Oda
Tx 11ax-20 (OFDMA) 52-tone RU, 5180 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5180 MHz

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.48	32.16	16.71	43.07	2.49	57.77	73.9	16.1	161	120	-
Hori.	5150.000	AV	37.65	32.16	16.71	43.07	2.49	45.94	53.9	7.9	161	120	VBW:10 Hz
Vert.	5150.000	PK	49.39	32.16	16.71	43.07	2.49	57.68	73.9	16.2	264	221	-
Vert.	5150.000	AV	37.61	32.16	16.71	43.07	2.49	45.90	53.9	8.0	264	221	VBW:10 Hz

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

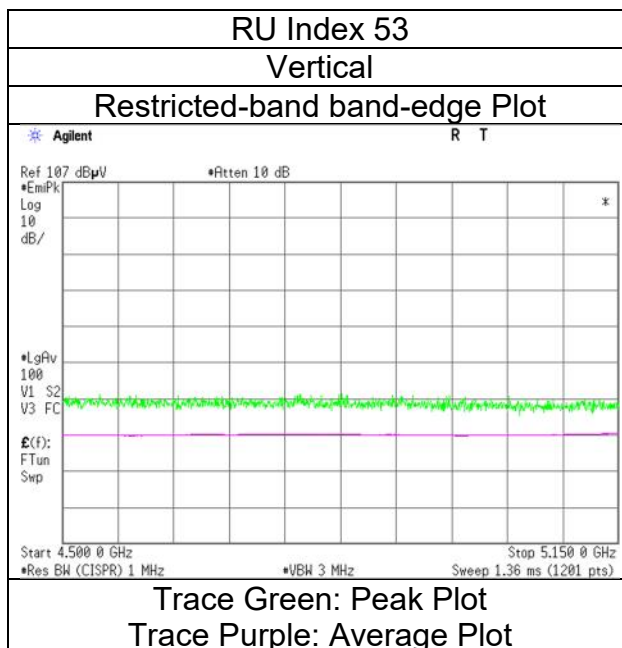
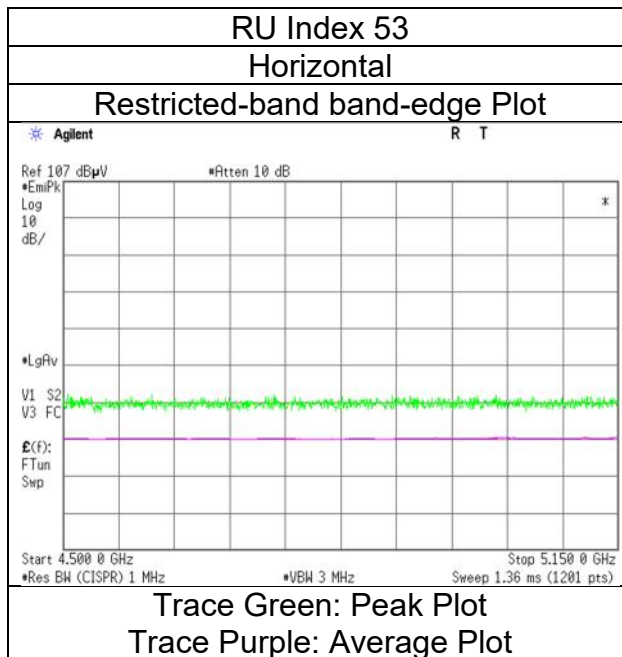
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5180 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5180 MHz

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.32	32.16	16.71	43.07	2.49	58.61	73.9	15.2	160	120	-
Hori.	5150.000	AV	37.33	32.16	16.71	43.07	2.49	45.62	53.9	8.2	160	120	VBW:10 Hz
Vert.	5150.000	PK	49.57	32.16	16.71	43.07	2.49	57.86	73.9	16.0	249	221	-
Vert.	5150.000	AV	37.25	32.16	16.71	43.07	2.49	45.54	53.9	8.3	249	221	VBW:10 Hz

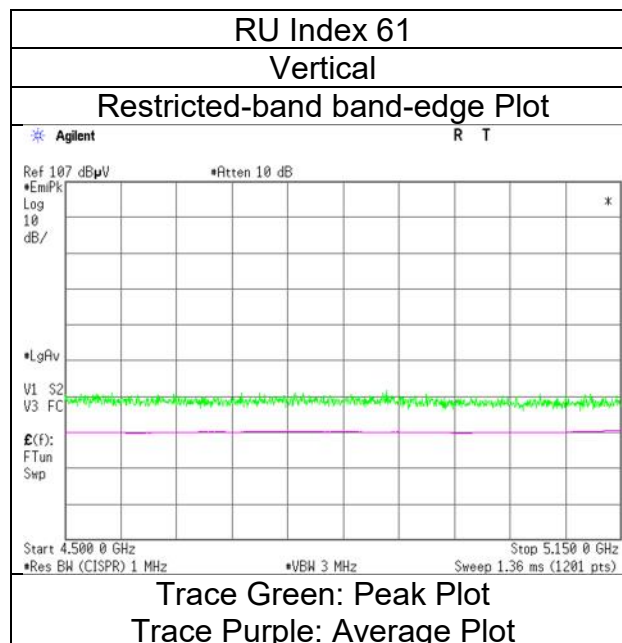
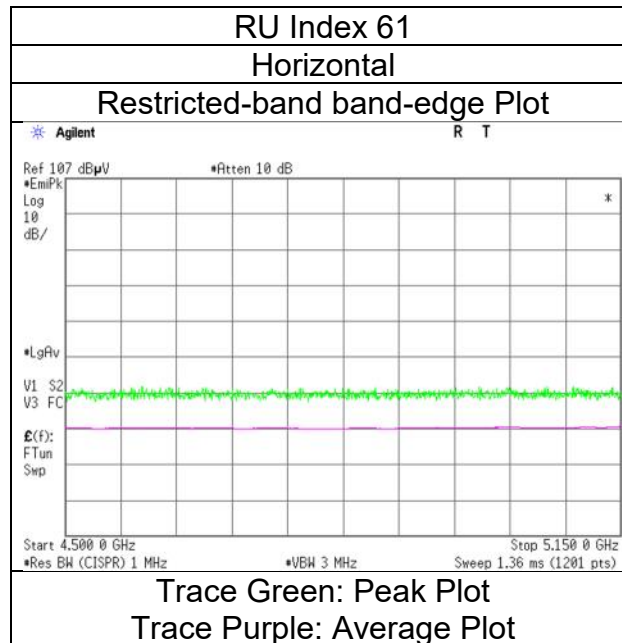
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5180 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5320 MHz

RU Index 8

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.41	31.98	16.84	43.30	2.49	58.42	73.9	15.4	161	121	-
Hori.	5350.000	AV	37.61	31.98	16.84	43.30	2.49	45.62	53.9	8.2	161	121	VBW: 10 Hz
Vert.	5350.000	PK	49.53	31.98	16.84	43.30	2.49	57.54	73.9	16.3	152	142	-
Vert.	5350.000	AV	37.22	31.98	16.84	43.30	2.49	45.23	53.9	8.6	152	142	VBW: 10 Hz

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

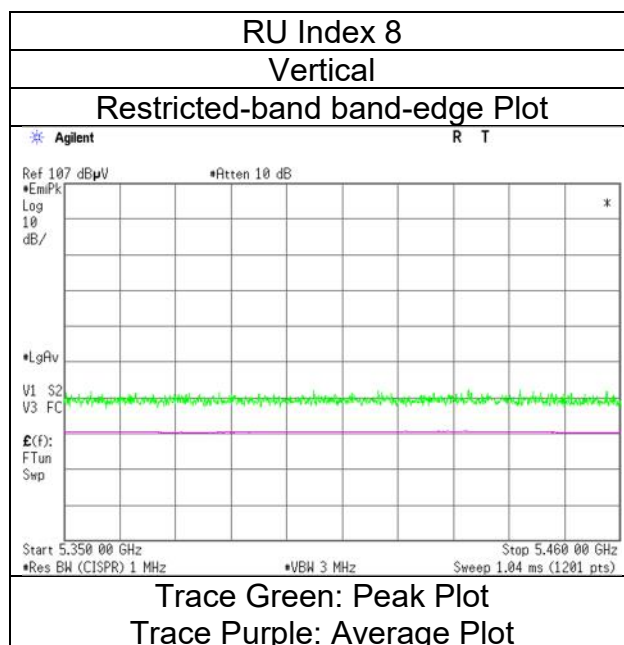
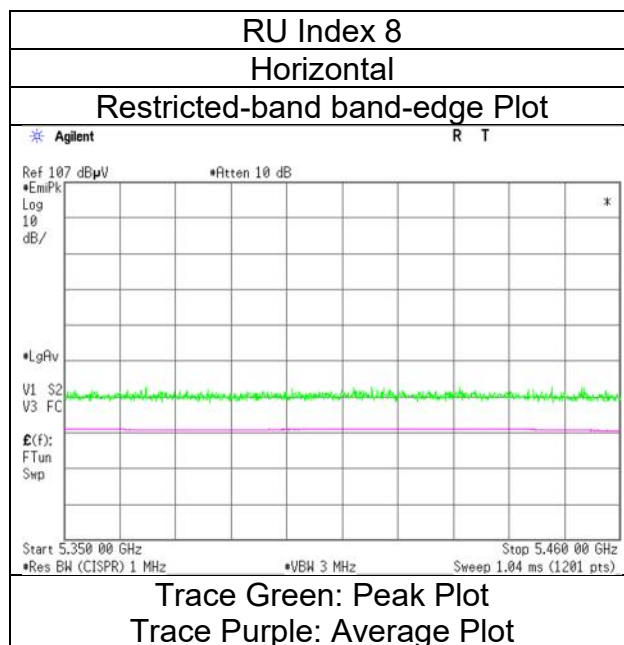
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	March 2, 2023
Temperature / Humidity	23 deg.C, 38 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5320 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 19, 2023
Temperature / Humidity 22 deg.C, 52 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5320 MHz

RU Index 40

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.11	31.98	16.84	43.30	2.49	58.12	73.9	15.7	151	125	-
Hori.	5350.000	AV	37.36	31.98	16.84	43.30	2.49	45.37	53.9	8.5	151	125	VBW:10 Hz
Vert.	5350.000	PK	49.41	31.98	16.84	43.30	2.49	57.42	73.9	16.4	239	226	-
Vert.	5350.000	AV	37.15	31.98	16.84	43.30	2.49	45.16	53.9	8.7	239	226	VBW:10 Hz

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

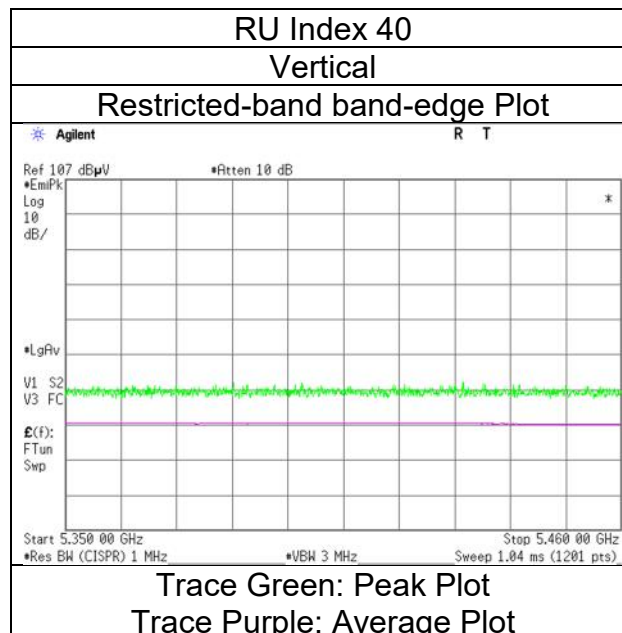
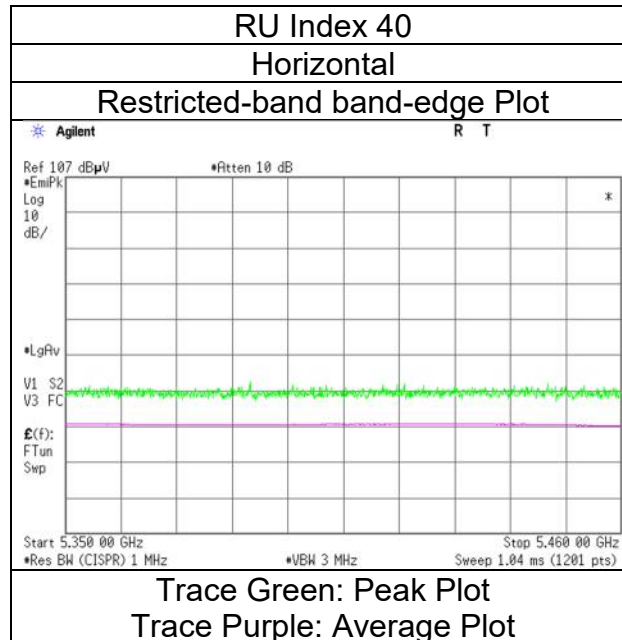
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 19, 2023
Temperature / Humidity	22 deg.C, 52 %RH
Engineer	Akihiro Oda
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5320 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5320 MHz

RU Index 54

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.67	31.98	16.84	43.30	2.49	58.68	73.9	15.2	156	123	-
Hori.	5350.000	AV	37.63	31.98	16.84	43.30	2.49	45.64	53.9	8.2	156	123	VBW:10 Hz
Vert.	5350.000	PK	50.01	31.98	16.84	43.30	2.49	58.02	73.9	15.8	251	230	-
Vert.	5350.000	AV	37.41	31.98	16.84	43.30	2.49	45.42	53.9	8.4	251	230	VBW:10 Hz

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

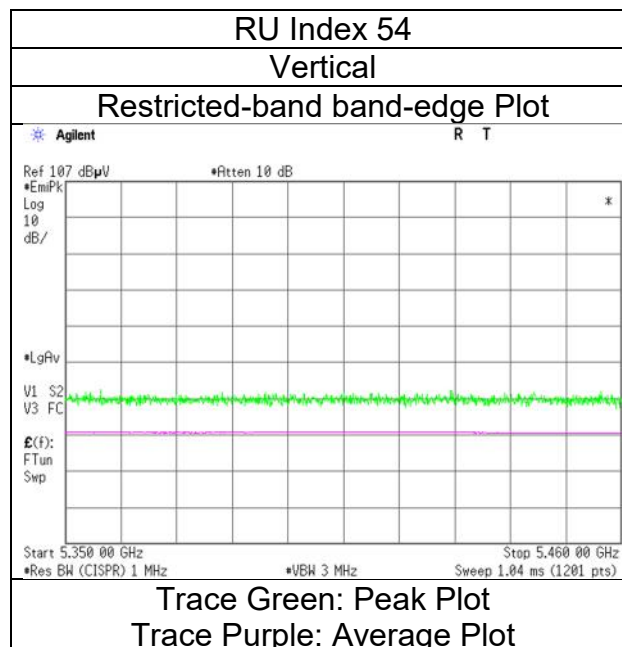
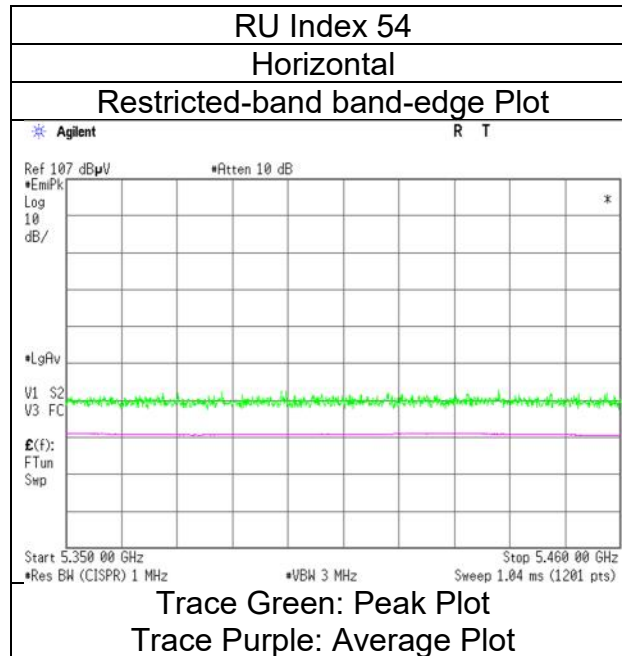
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5320 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5320 MHz

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.01	31.98	16.84	43.30	2.49	59.02	73.9	14.8	156	123	-
Hori.	5350.000	AV	38.36	31.98	16.84	43.30	2.49	46.37	53.9	7.5	156	123	VBW:10 Hz
Vert.	5350.000	PK	50.47	31.98	16.84	43.30	2.49	58.48	73.9	15.4	263	221	-
Vert.	5350.000	AV	37.57	31.98	16.84	43.30	2.49	45.58	53.9	8.3	263	221	VBW:10 Hz

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

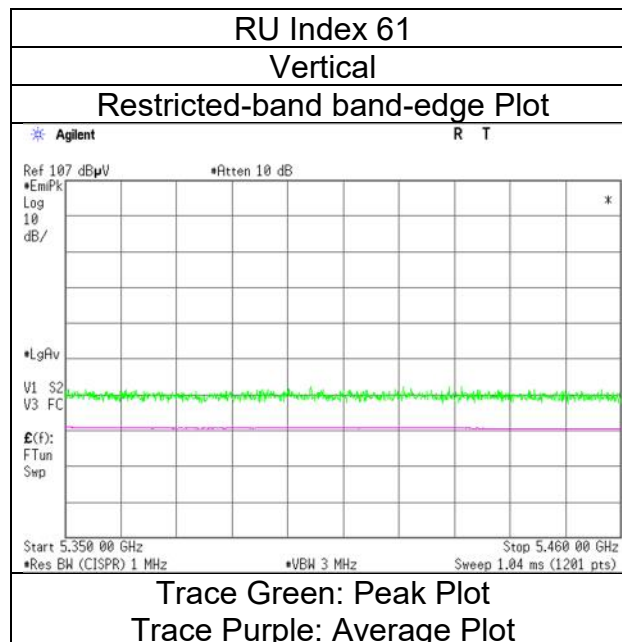
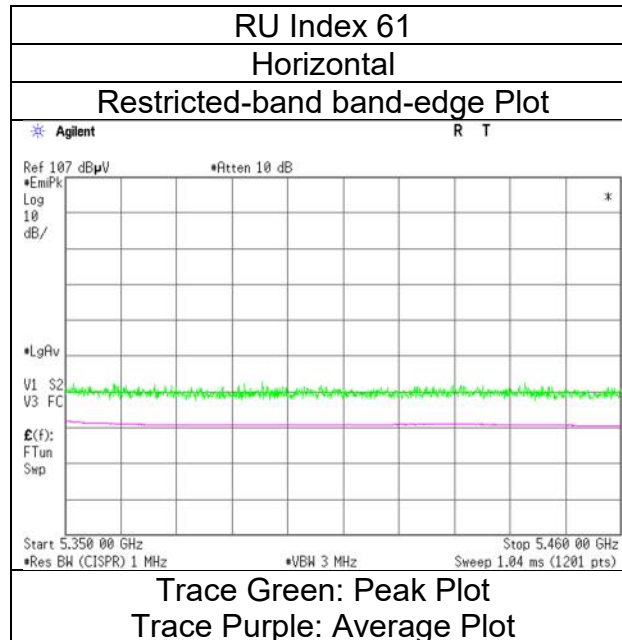
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5320 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5500 MHz

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.81	32.24	16.91	43.42	2.49	59.03	73.9	14.8	183	72	-
Hori.	5460.000	AV	37.26	32.24	16.91	43.42	2.49	45.48	53.9	8.4	183	72	VBW: 10 Hz
Vert.	5460.000	PK	49.48	32.24	16.91	43.42	2.49	57.70	73.9	16.2	168	144	-
Vert.	5460.000	AV	36.82	32.24	16.91	43.42	2.49	45.04	53.9	8.8	168	144	VBW: 10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.16	32.25	16.92	43.44	2.49	58.38	-36.85	-27.0	9.8	183	72	-
Vert.	5470.000	PK	50.24	32.25	16.92	43.44	2.49	58.46	-36.77	-27.0	9.7	168	144	-

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

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

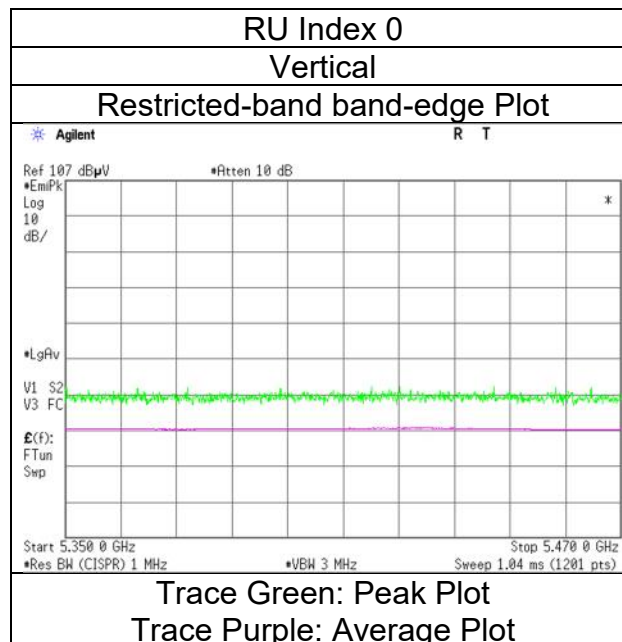
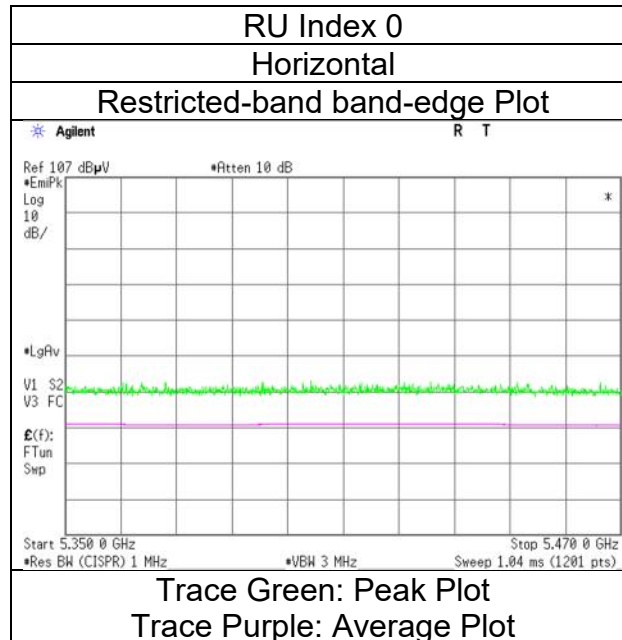
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	October 2, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5500 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 19, 2023
Temperature / Humidity 22 deg.C, 52 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5500 MHz

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.05	32.24	16.91	43.42	2.49	58.27	73.9	15.6	118	130	-
Hori.	5460.000	AV	37.03	32.24	16.91	43.42	2.49	45.25	53.9	8.6	118	130	VBW:10 Hz
Vert.	5460.000	PK	49.39	32.24	16.91	43.42	2.49	57.61	73.9	16.2	224	242	-
Vert.	5460.000	AV	36.80	32.24	16.91	43.42	2.49	45.02	53.9	8.8	224	242	VBW:10 Hz

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

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

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

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

(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	50.14	32.25	16.92	43.44	2.49	58.36	-36.87	-27.0	9.8	118	130	-
Vert.	5470.000	PK	49.48	32.25	16.92	43.44	2.49	57.70	-37.53	-27.0	10.5	224	242	-

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

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

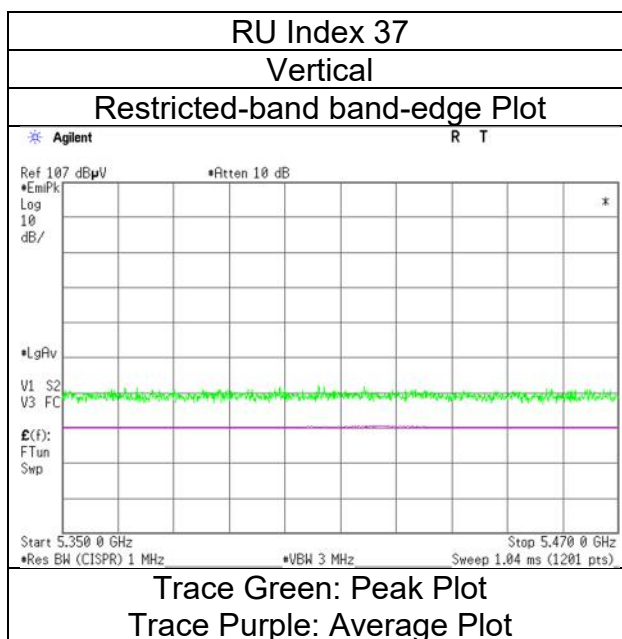
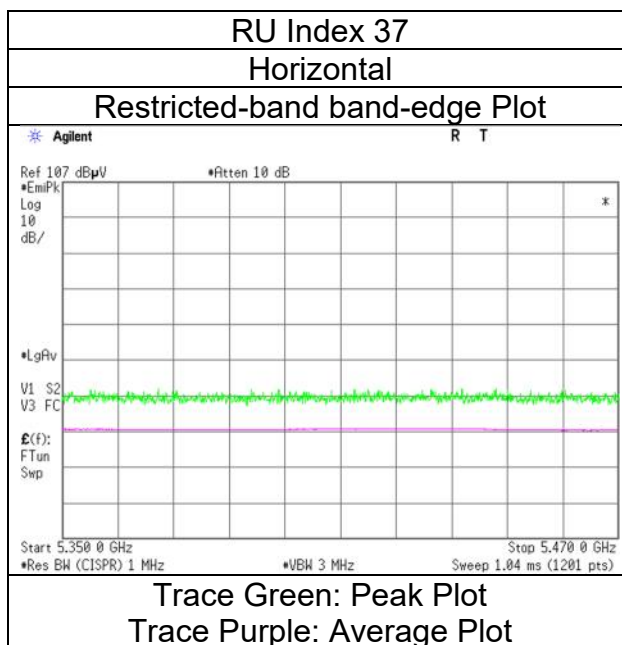
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 19, 2023
Temperature / Humidity	22 deg.C, 52 %RH
Engineer	Akihiro Oda
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5500 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5500 MHz

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.71	32.24	16.91	43.42	2.49	57.93	73.9	15.9	155	127	-
Hori.	5460.000	AV	37.31	32.24	16.91	43.42	2.49	45.53	53.9	8.3	155	127	VBW:10 Hz
Vert.	5460.000	PK	49.71	32.24	16.91	43.42	2.49	57.93	73.9	15.9	236	235	-
Vert.	5460.000	AV	37.23	32.24	16.91	43.42	2.49	45.45	53.9	8.4	236	235	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.72	32.25	16.92	43.44	2.49	57.94	-37.29	-27.0	10.2	155	127	-
Vert.	5470.000	PK	50.01	32.25	16.92	43.44	2.49	58.23	-37.00	-27.0	10.0	236	235	-

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

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

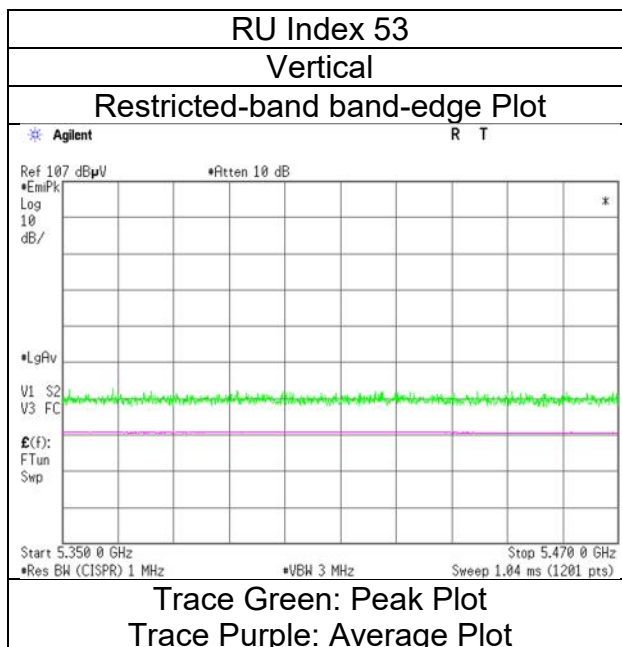
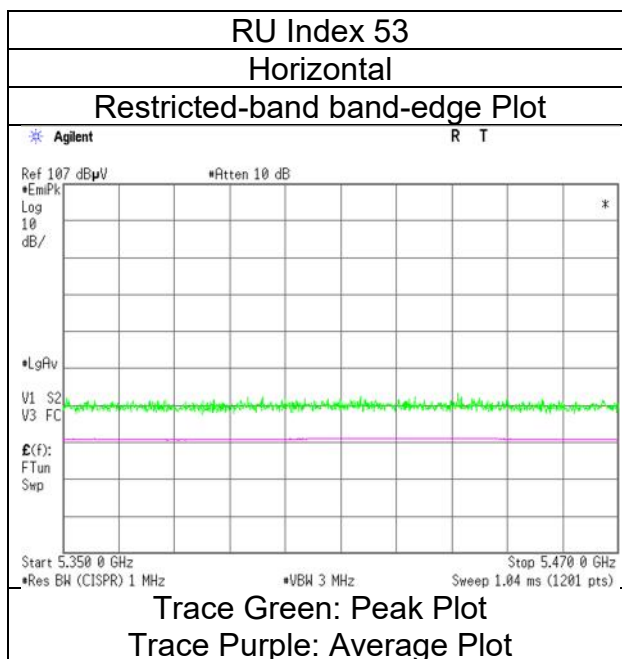
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5500 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5500 MHz

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.97	32.24	16.91	43.42	2.49	59.19	73.9	14.7	145	128	-
Hori.	5460.000	AV	37.44	32.24	16.91	43.42	2.49	45.66	53.9	8.2	145	128	VBW:10 Hz
Vert.	5460.000	PK	49.93	32.24	16.91	43.42	2.49	58.15	73.9	15.7	220	233	-
Vert.	5460.000	AV	37.59	32.24	16.91	43.42	2.49	45.81	53.9	8.0	220	233	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.13	32.25	16.92	43.44	2.49	59.35	-35.88	-27.0	8.8	145	128	-
Vert.	5470.000	PK	50.59	32.25	16.92	43.44	2.49	58.81	-36.42	-27.0	9.4	220	233	-

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

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

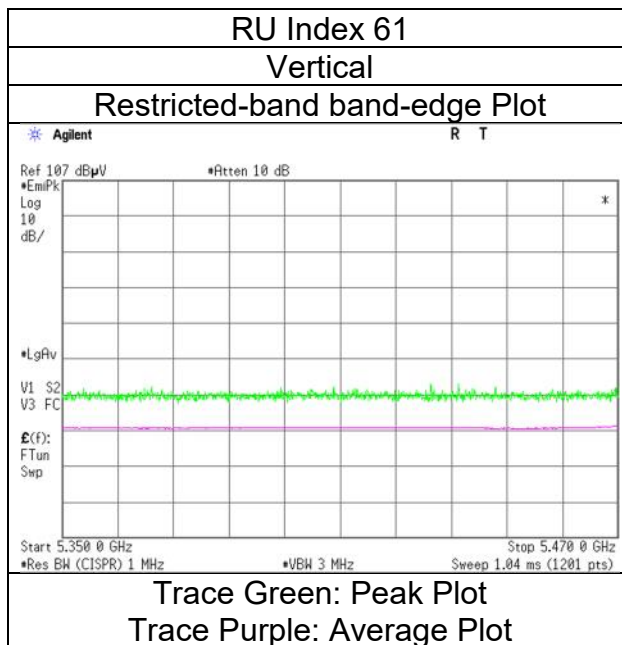
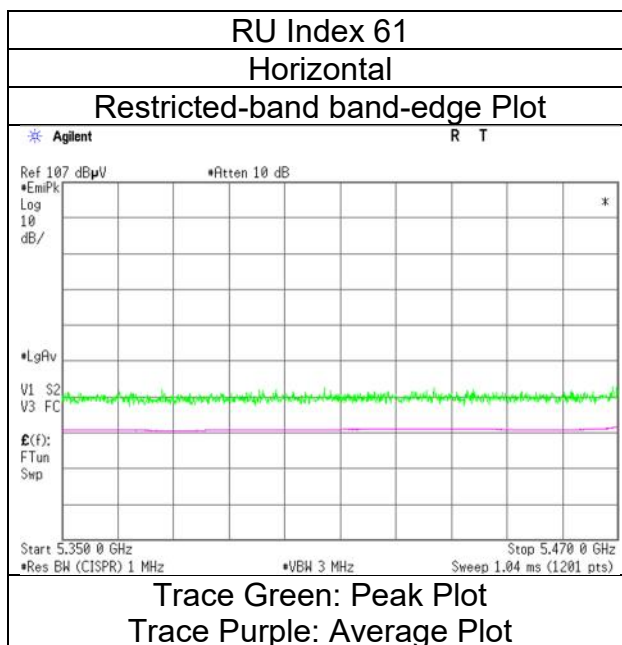
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5500 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5700 MHz

RU Index 8

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.41	32.63	17.07	43.42	2.49	59.18	-36.05	-27.0	9.0	200	105	-
Vert.	5725.000	PK	49.66	32.63	17.07	43.42	2.49	58.43	-36.80	-27.0	9.8	173	111	-

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

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

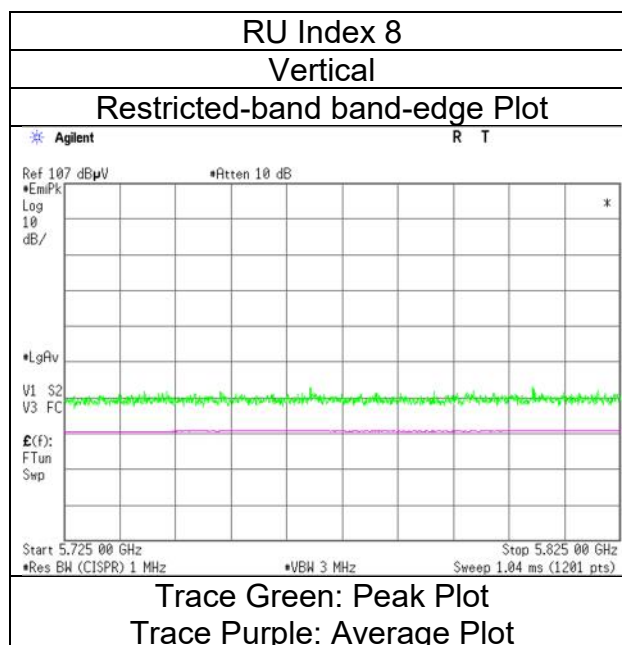
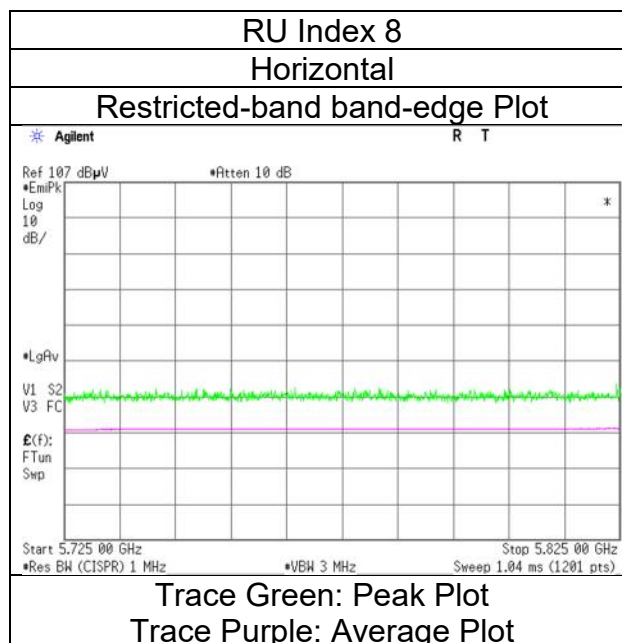
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	October 2, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 19, 2023
Temperature / Humidity 22 deg.C, 52 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5700 MHz

RU Index 40

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.87	32.63	17.07	43.42	2.49	58.64	-36.59	-27.0	9.5	142	127	-
Vert.	5725.000	PK	50.01	32.63	17.07	43.42	2.49	58.78	-36.45	-27.0	9.4	210	246	-

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

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

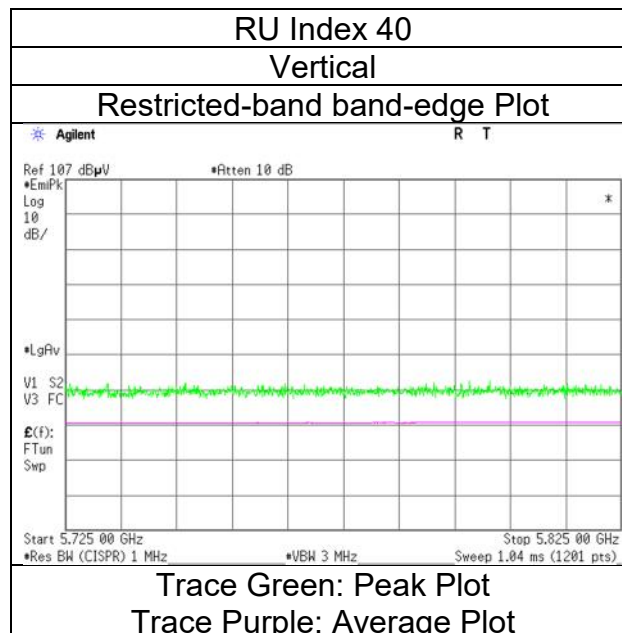
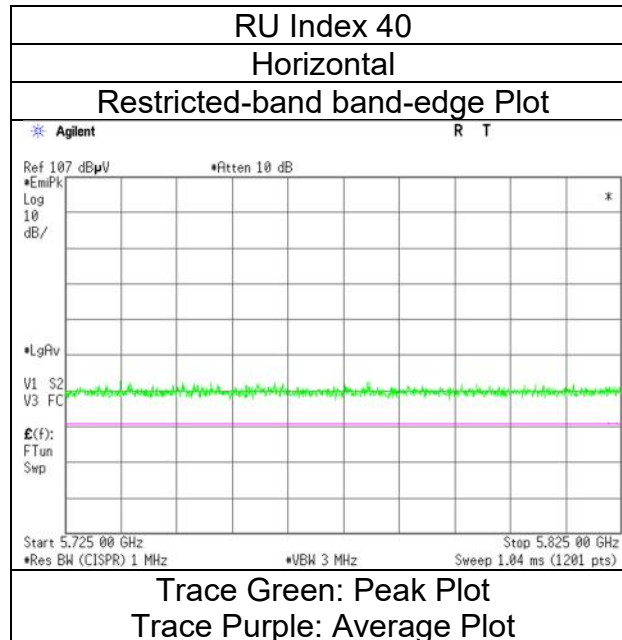
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 19, 2023
Temperature / Humidity	22 deg.C, 52 %RH
Engineer	Akihiro Oda
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5700 MHz

RU Index 54

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.27	32.63	17.07	43.42	2.49	59.04	-36.19	-27.0	9.1	154	128	-
Vert.	5725.000	PK	49.82	32.63	17.07	43.42	2.49	58.59	-36.64	-27.0	9.6	238	238	-

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

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

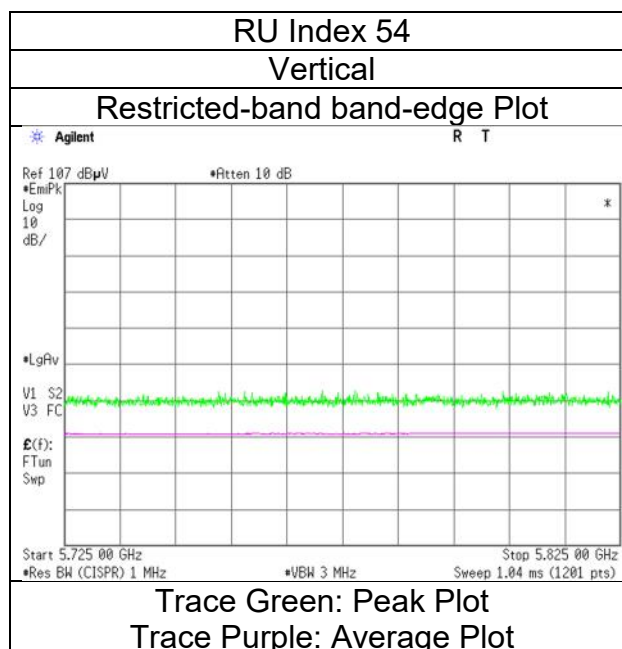
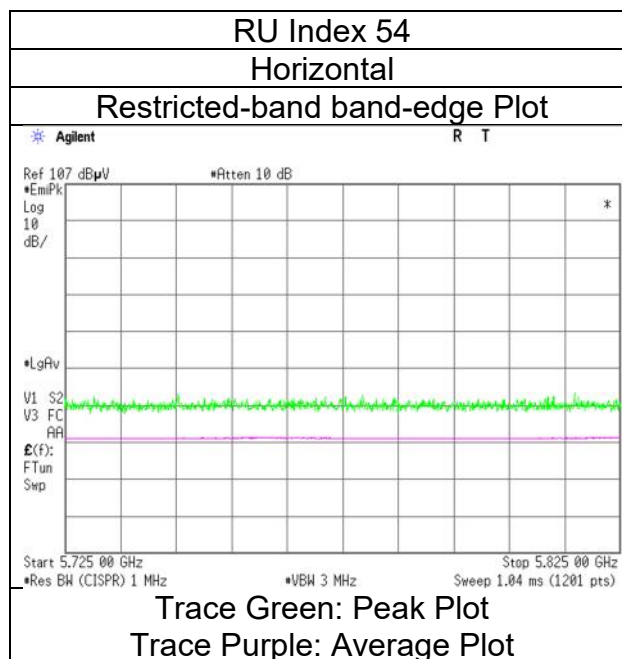
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5700 MHz

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.97	32.63	17.07	43.42	2.49	59.74	-35.49	-27.0	8.4	155	126	-
Vert.	5725.000	PK	50.20	32.63	17.07	43.42	2.49	58.97	-36.26	-27.0	9.2	228	234	-

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

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

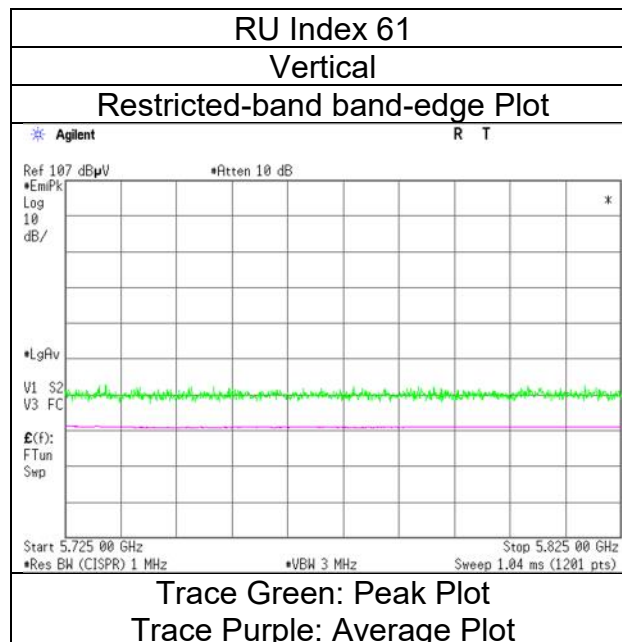
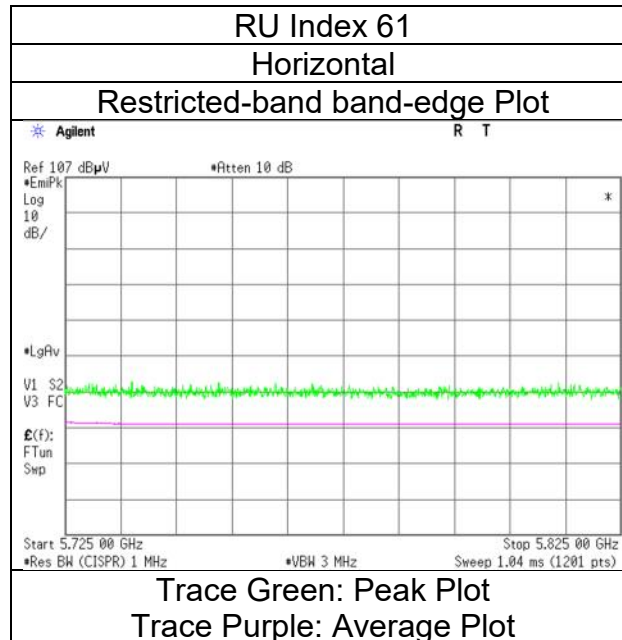
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5700 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5745 MHz

RU Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.33	32.44	17.03	43.44	2.49	57.85	-37.38	-27.0	10.3	177	119	-
Hori.	5700.000	PK	49.97	32.56	17.05	43.43	2.49	58.64	-36.59	10.0	46.5	177	119	-
Hori.	5720.000	PK	49.72	32.61	17.06	43.42	2.49	58.46	-36.77	15.6	52.3	177	119	-
Hori.	5725.000	PK	50.09	32.63	17.07	43.42	2.49	58.86	-36.37	27.0	63.3	177	119	-
Vert.	5650.000	PK	49.11	32.44	17.03	43.44	2.49	57.63	-37.60	-27.0	10.6	178	111	-
Vert.	5700.000	PK	49.06	32.56	17.05	43.43	2.49	57.73	-37.50	10.0	47.5	178	111	-
Vert.	5720.000	PK	49.34	32.61	17.06	43.42	2.49	58.08	-37.15	15.6	52.7	178	111	-
Vert.	5725.000	PK	49.25	32.63	17.07	43.42	2.49	58.02	-37.21	27.0	64.2	178	111	-

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

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

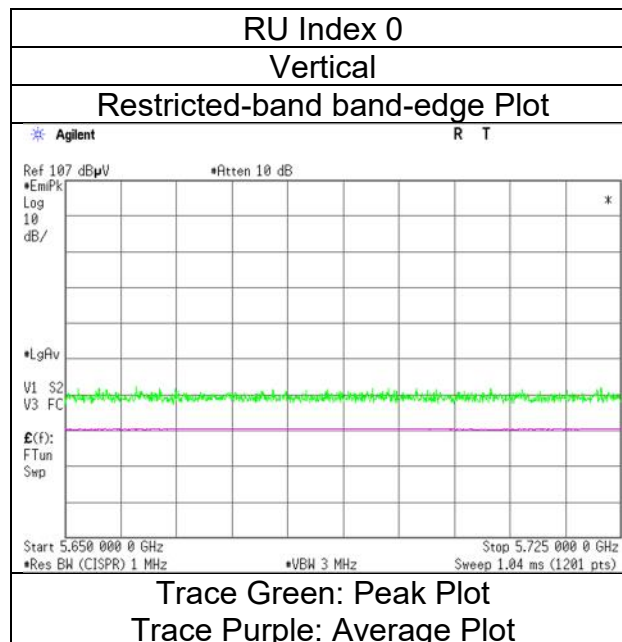
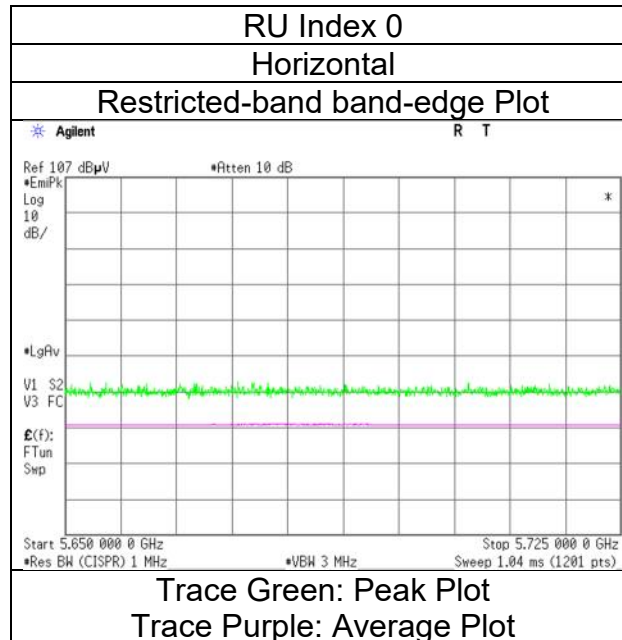
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	October 2, 2023
Temperature / Humidity	23 deg. C / 40 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 19, 2023
Temperature / Humidity 22 deg.C, 52 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5745 MHz

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.30	32.44	17.03	43.44	2.49	58.82	-36.41	-27.0	9.4	137	127	-
Hori.	5700.000	PK	49.76	32.56	17.05	43.43	2.49	58.43	-36.80	10.0	46.8	137	127	-
Hori.	5720.000	PK	49.71	32.61	17.06	43.42	2.49	58.45	-36.78	15.6	52.3	137	127	-
Hori.	5725.000	PK	49.50	32.63	17.07	43.42	2.49	58.27	-36.96	27.0	63.9	137	127	-
Vert.	5650.000	PK	50.89	32.44	17.03	43.44	2.49	59.41	-35.82	-27.0	8.8	219	97	-
Vert.	5700.000	PK	49.26	32.56	17.05	43.43	2.49	57.93	-37.30	10.0	47.3	219	97	-
Vert.	5720.000	PK	49.33	32.61	17.06	43.42	2.49	58.07	-37.16	15.6	52.7	219	97	-
Vert.	5725.000	PK	49.43	32.63	17.07	43.42	2.49	58.20	-37.03	27.0	64.0	219	97	-

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

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

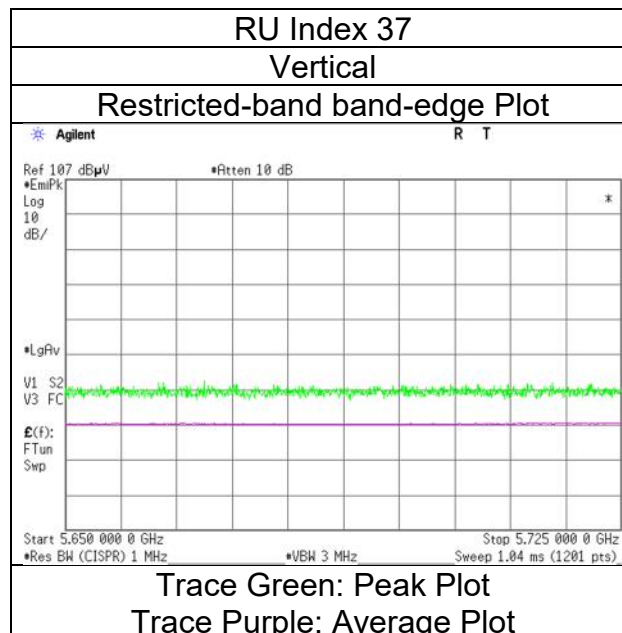
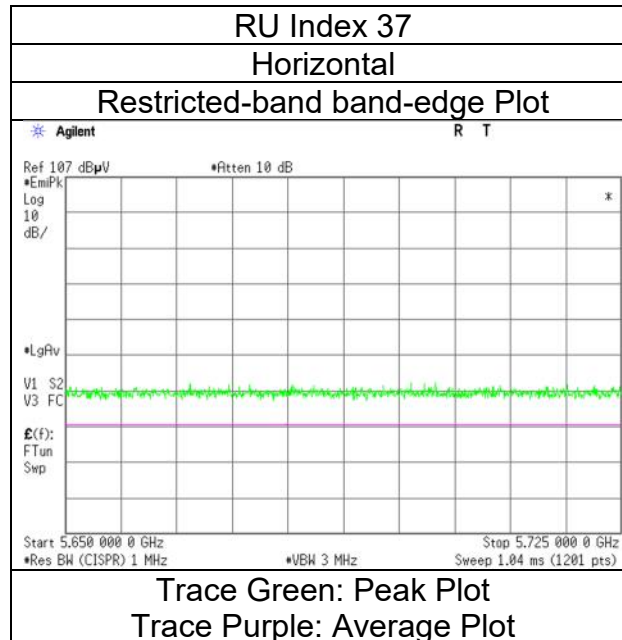
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 19, 2023
Temperature / Humidity	22 deg.C, 52 %RH
Engineer	Akihiro Oda
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5745 MHz

RU Index 53

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.71	32.44	17.03	43.44	2.49	58.23	-37.00	-27.0	9.9	153	130	-
Hori.	5700.000	PK	49.96	32.56	17.05	43.43	2.49	58.63	-36.60	10.0	46.6	153	130	-
Hori.	5720.000	PK	49.81	32.61	17.06	43.42	2.49	58.55	-36.68	15.6	52.2	153	130	-
Hori.	5725.000	PK	49.97	32.63	17.07	43.42	2.49	58.74	-36.49	27.0	63.4	153	130	-
Vert.	5650.000	PK	49.83	32.44	17.03	43.44	2.49	58.35	-36.88	-27.0	9.8	210	224	-
Vert.	5700.000	PK	49.06	32.56	17.05	43.43	2.49	57.73	-37.50	10.0	47.5	210	224	-
Vert.	5720.000	PK	49.37	32.61	17.06	43.42	2.49	58.11	-37.12	15.6	52.7	210	224	-
Vert.	5725.000	PK	49.68	32.63	17.07	43.42	2.49	58.45	-36.78	27.0	63.7	210	224	-

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

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

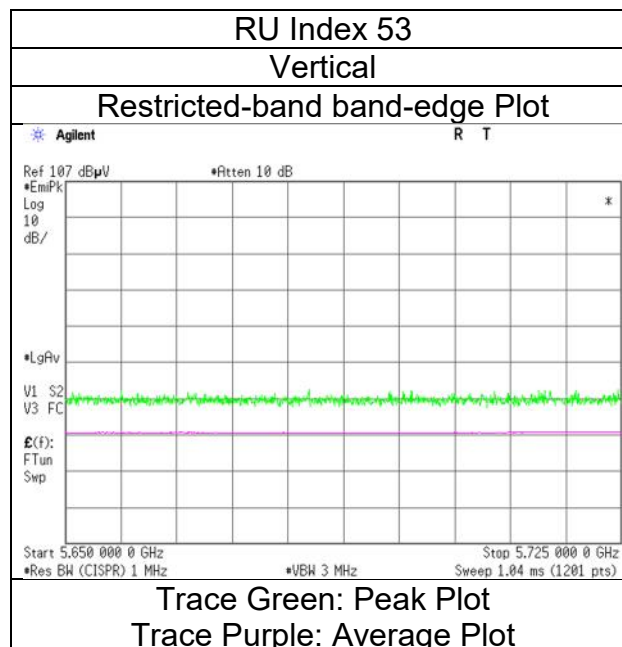
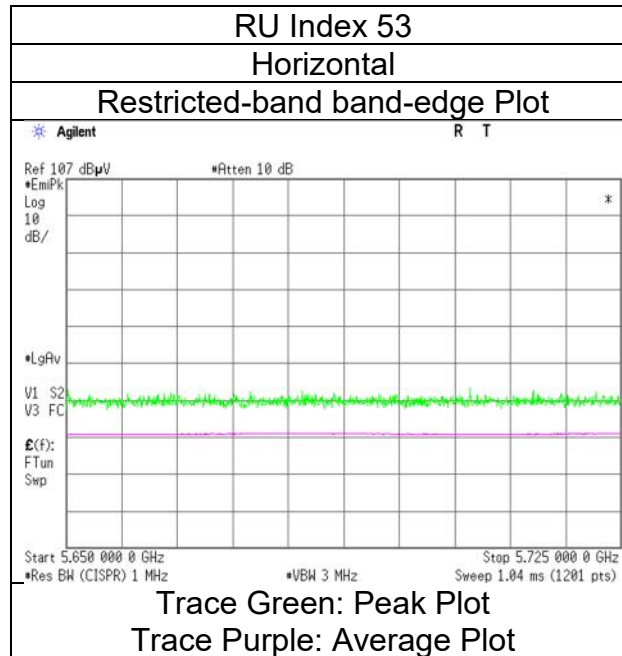
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5745 MHz

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.62	32.44	17.03	43.44	2.49	59.14	-36.09	-27.0	9.0	151	128	-
Hori.	5700.000	PK	50.43	32.56	17.05	43.43	2.49	59.10	-36.13	10.0	46.1	151	128	-
Hori.	5720.000	PK	50.62	32.61	17.06	43.42	2.49	59.36	-35.87	15.6	51.4	151	128	-
Hori.	5725.000	PK	50.71	32.63	17.07	43.42	2.49	59.48	-35.75	27.0	62.7	151	128	-
Vert.	5650.000	PK	50.36	32.44	17.03	43.44	2.49	58.88	-36.35	-27.0	9.3	155	226	-
Vert.	5700.000	PK	50.22	32.56	17.05	43.43	2.49	58.89	-36.34	10.0	46.3	155	226	-
Vert.	5720.000	PK	49.45	32.61	17.06	43.42	2.49	58.19	-37.04	15.6	52.6	155	226	-
Vert.	5725.000	PK	49.91	32.63	17.07	43.42	2.49	58.68	-36.55	27.0	63.5	155	226	-

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

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

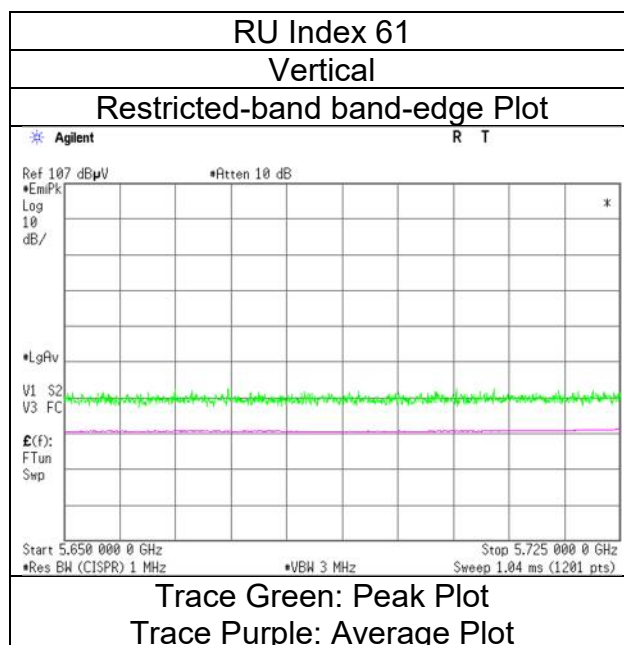
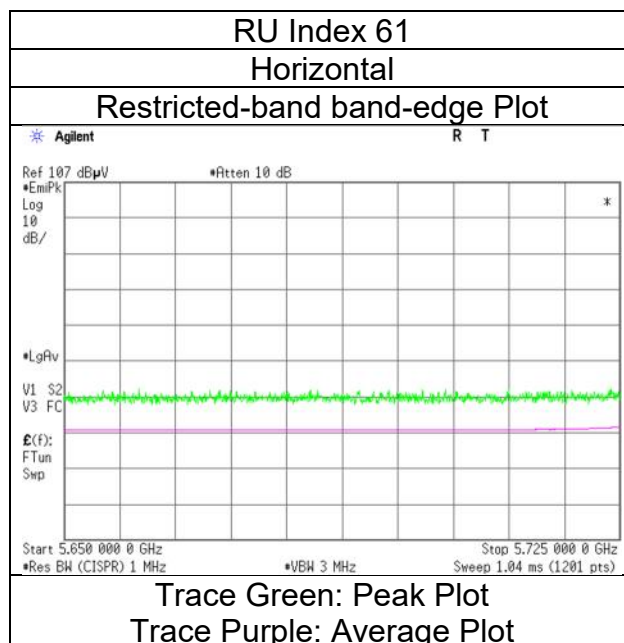
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5745 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date March 2, 2023
Temperature / Humidity 23 deg.C, 38 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5825 MHz

RU Index 8

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	51.39	32.94	17.14	43.39	2.49	60.57	-34.66	27.0	61.6	107	124	-
Hori.	5855.000	PK	50.20	32.95	17.14	43.39	2.49	59.39	-35.84	15.6	51.4	107	124	-
Hori.	5875.000	PK	50.24	32.98	17.18	43.39	2.49	59.50	-35.73	10.0	45.7	107	124	-
Hori.	5925.000	PK	50.29	33.06	17.20	43.38	2.49	59.66	-35.57	-27.0	8.5	107	124	-
Vert.	5850.000	PK	50.45	32.94	17.14	43.39	2.49	59.63	-35.60	27.0	62.6	120	109	-
Vert.	5855.000	PK	49.83	32.95	17.14	43.39	2.49	59.02	-36.21	15.6	51.8	120	109	-
Vert.	5875.000	PK	50.36	32.98	17.18	43.39	2.49	59.62	-35.61	10.0	45.6	120	109	-
Vert.	5925.000	PK	49.75	33.06	17.20	43.38	2.49	59.12	-36.11	-27.0	9.1	120	109	-

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

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

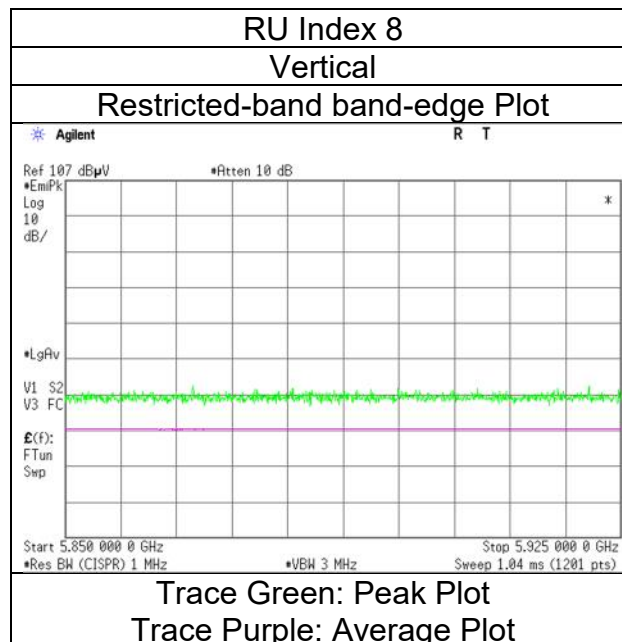
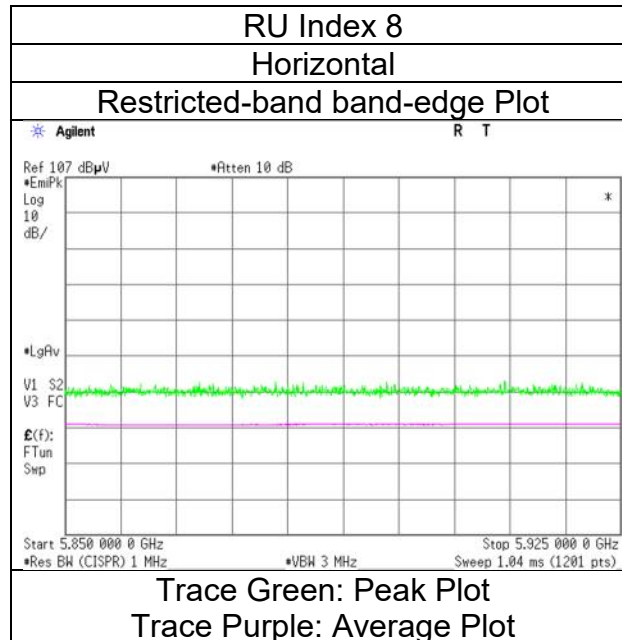
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	March 2, 2023
Temperature / Humidity	23 deg.C, 38 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5825 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 19, 2023
Temperature / Humidity 22 deg.C, 52 %RH
Engineer Akihiro Oda
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5825 MHz

RU Index 40

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.71	32.94	17.14	43.39	2.49	58.89	-36.34	27.0	63.3	133	124	-
Hori.	5855.000	PK	49.49	32.95	17.14	43.39	2.49	58.68	-36.55	15.6	52.1	133	124	-
Hori.	5875.000	PK	49.78	32.98	17.18	43.39	2.49	59.04	-36.19	10.0	46.1	133	124	-
Hori.	5925.000	PK	50.32	33.06	17.20	43.38	2.49	59.69	-35.54	-27.0	8.5	133	124	-
Vert.	5850.000	PK	50.12	32.94	17.14	43.39	2.49	59.30	-35.93	27.0	62.9	193	231	-
Vert.	5855.000	PK	49.99	32.95	17.14	43.39	2.49	59.18	-36.05	15.6	51.6	193	231	-
Vert.	5875.000	PK	49.82	32.98	17.18	43.39	2.49	59.08	-36.15	10.0	46.1	193	231	-
Vert.	5925.000	PK	49.47	33.06	17.20	43.38	2.49	58.84	-36.39	-27.0	9.3	193	231	-

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

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

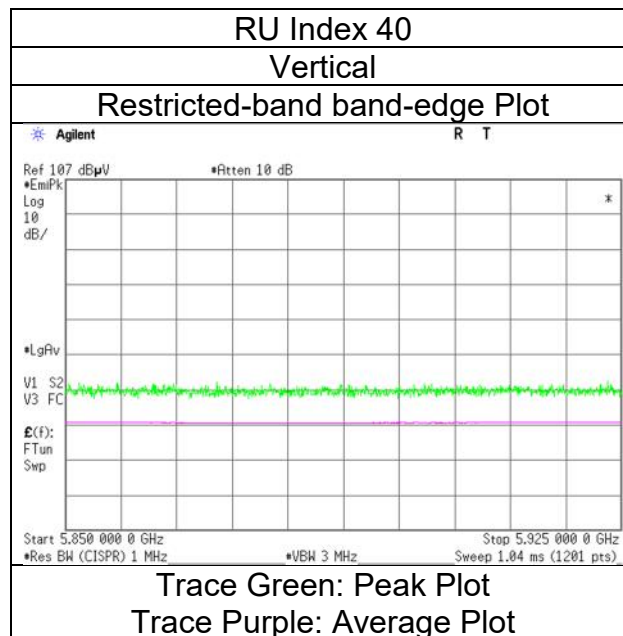
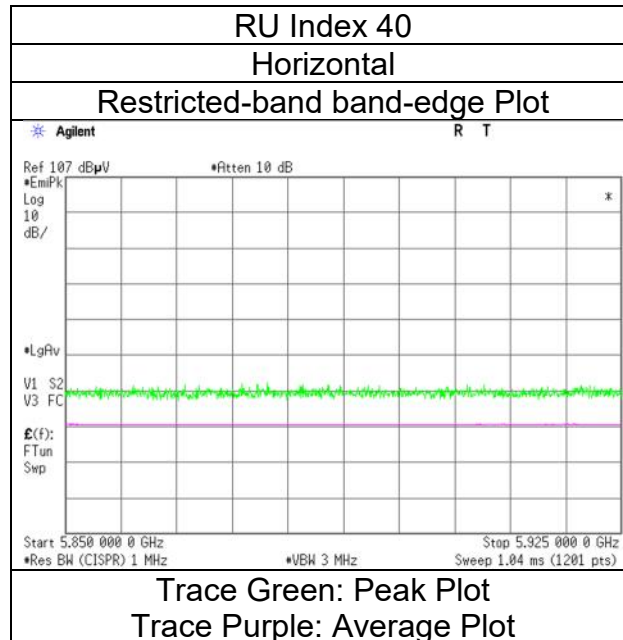
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 19, 2023
Temperature / Humidity	22 deg.C, 52 %RH
Engineer	Akihiro Oda
Mode	Tx 11ax-20 (OFDMA) 52-tone RU, 5825 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5825 MHz

RU Index 54

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	50.52	32.94	17.14	43.39	2.49	59.70	-35.53	27.0	62.5	149	130	-
Hori.	5855.000	PK	50.56	32.95	17.14	43.39	2.49	59.75	-35.48	15.6	51.0	149	130	-
Hori.	5875.000	PK	50.28	32.98	17.18	43.39	2.49	59.54	-35.69	10.0	45.6	149	130	-
Hori.	5925.000	PK	50.54	33.06	17.20	43.38	2.49	59.91	-35.32	-27.0	8.3	149	130	-
Vert.	5850.000	PK	50.76	32.94	17.14	43.39	2.49	59.94	-35.29	27.0	62.2	222	232	-
Vert.	5855.000	PK	50.63	32.95	17.14	43.39	2.49	59.82	-35.41	15.6	51.0	222	232	-
Vert.	5875.000	PK	50.15	32.98	17.18	43.39	2.49	59.41	-35.82	10.0	45.8	222	232	-
Vert.	5925.000	PK	50.50	33.06	17.20	43.38	2.49	59.87	-35.36	-27.0	8.3	222	232	-

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

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

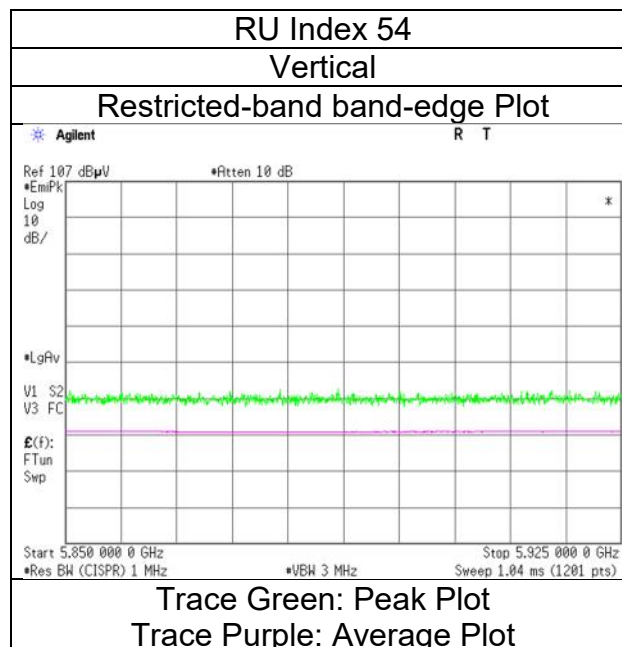
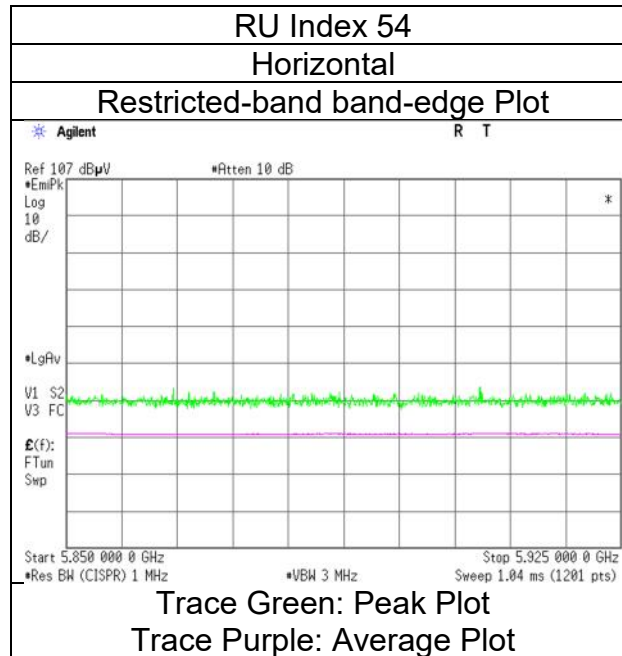
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 106-tone RU, 5825 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5825 MHz

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	50.81	32.94	17.14	43.39	2.49	59.99	-35.24	27.0	62.2	148	129	-
Hori.	5855.000	PK	50.73	32.95	17.14	43.39	2.49	59.92	-35.31	15.6	50.9	148	129	-
Hori.	5875.000	PK	50.46	32.98	17.18	43.39	2.49	59.72	-35.51	10.0	45.5	148	129	-
Hori.	5925.000	PK	50.30	33.06	17.20	43.38	2.49	59.67	-35.56	-27.0	8.5	148	129	-
Vert.	5850.000	PK	51.39	32.94	17.14	43.39	2.49	60.57	-34.66	27.0	61.6	226	228	-
Vert.	5855.000	PK	50.79	32.95	17.14	43.39	2.49	59.98	-35.25	15.6	50.8	226	228	-
Vert.	5875.000	PK	49.78	32.98	17.18	43.39	2.49	59.04	-36.19	10.0	46.1	226	228	-
Vert.	5925.000	PK	50.42	33.06	17.20	43.38	2.49	59.79	-35.44	-27.0	8.4	226	228	-

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

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

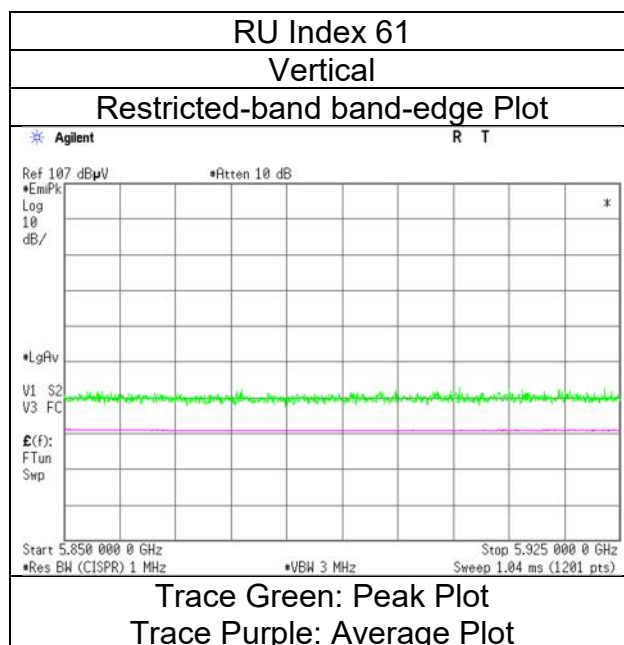
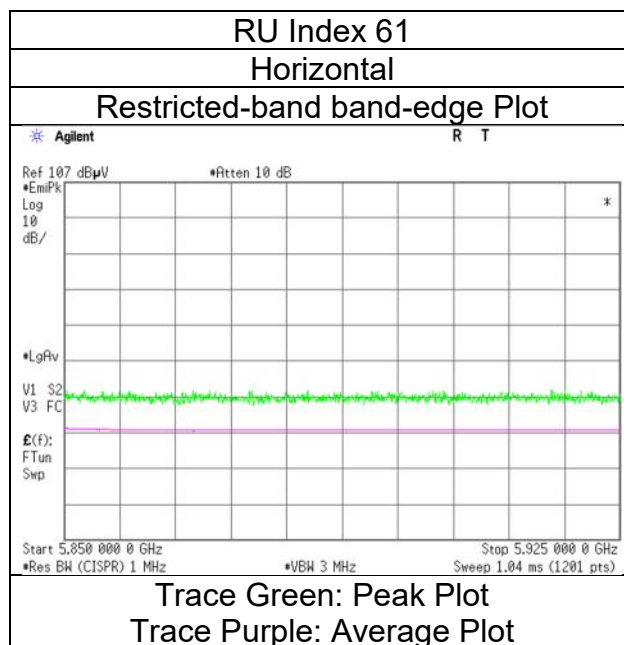
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5825 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 16, 2023
Temperature / Humidity 24 deg.C, 51 %RH
Engineer Ken Fujita
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5190 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.27	32.16	16.74	43.07	2.49	57.59	73.9	16.3	198	106	-
Hori.	5150.000	AV	37.28	32.16	16.74	43.07	2.49	45.60	53.9	8.3	198	106	VBW:10 Hz
Vert.	5150.000	PK	49.99	32.16	16.74	43.07	2.49	58.31	73.9	15.5	258	131	-
Vert.	5150.000	AV	37.21	32.16	16.74	43.07	2.49	45.53	53.9	8.3	258	131	VBW:10 Hz

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

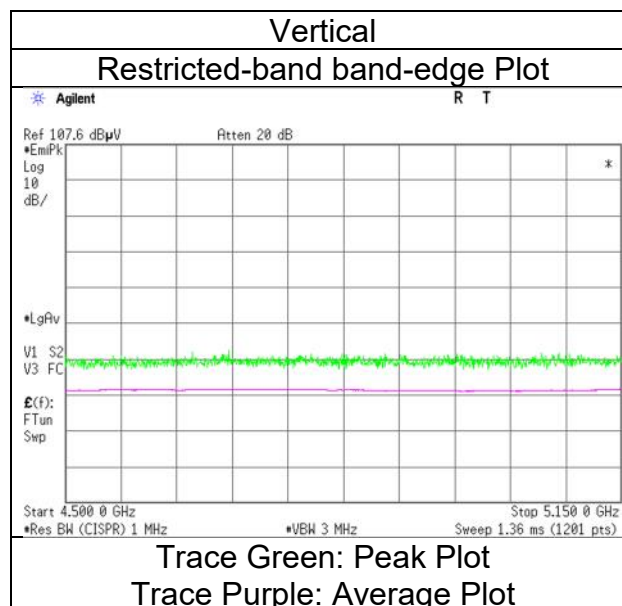
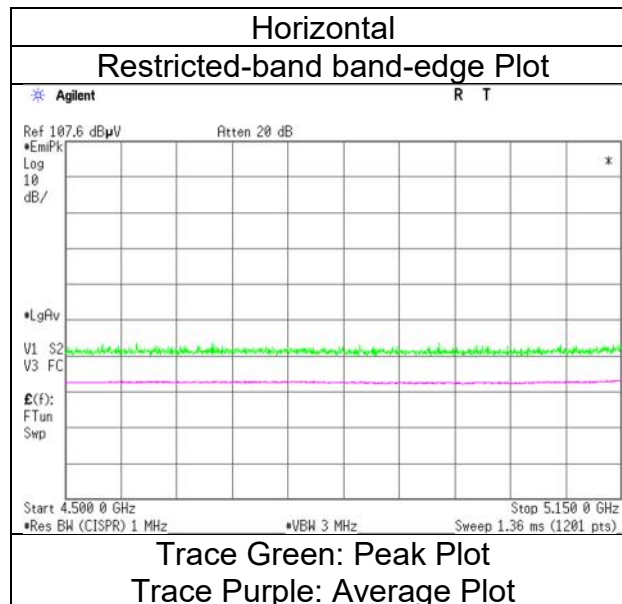
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 16, 2023
24 deg.C, 51 %RH
Ken Fujita
Tx 11n-40, 5190 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5310 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [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	46.97	31.95	16.49	38.83	2.49	59.07	73.9	14.8	129	129	-
Hori.	5350.000	AV	34.72	31.95	16.49	38.83	2.49	46.82	53.9	7.0	129	129	VBW:10 Hz
Vert.	5350.000	PK	48.60	31.95	16.49	38.83	2.49	60.70	73.9	13.2	261	136	-
Vert.	5350.000	AV	34.88	31.95	16.49	38.83	2.49	46.98	53.9	6.9	261	136	VBW:10 Hz

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

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

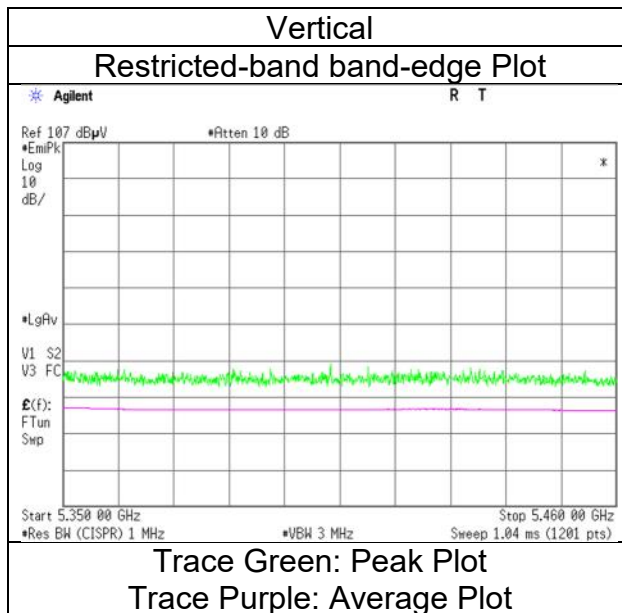
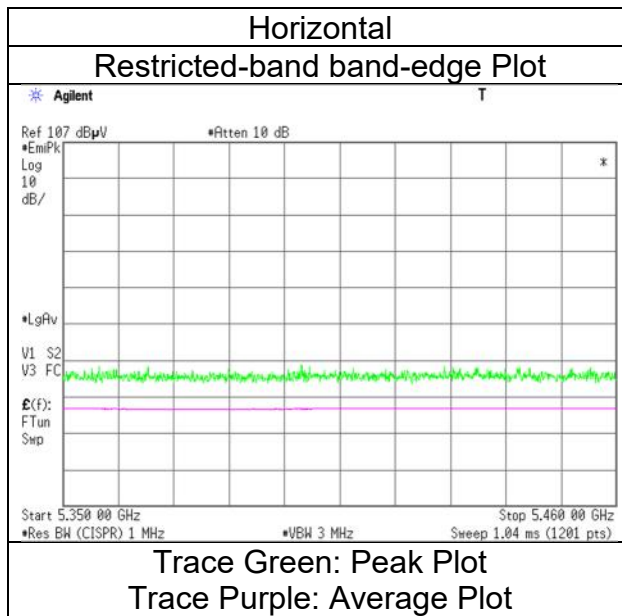
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11n-40, 5310 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5510 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	45.96	32.14	16.56	38.89	2.49	58.26	73.9	15.6	127	131	-
Hori.	5460.000	AV	33.79	32.14	16.56	38.89	2.49	46.09	53.9	7.8	127	131	VBW:10 Hz
Vert.	5460.000	PK	48.32	32.14	16.56	38.89	2.49	60.62	73.9	13.2	190	139	-
Vert.	5460.000	AV	33.56	32.14	16.56	38.89	2.49	45.86	53.9	8.0	190	139	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.51	32.15	16.57	38.89	2.49	58.83	-36.40	-27.0	9.4	127	131	-
Vert.	5470.000	PK	47.72	32.15	16.57	38.89	2.49	60.04	-35.19	-27.0	8.1	190	139	-

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

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

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

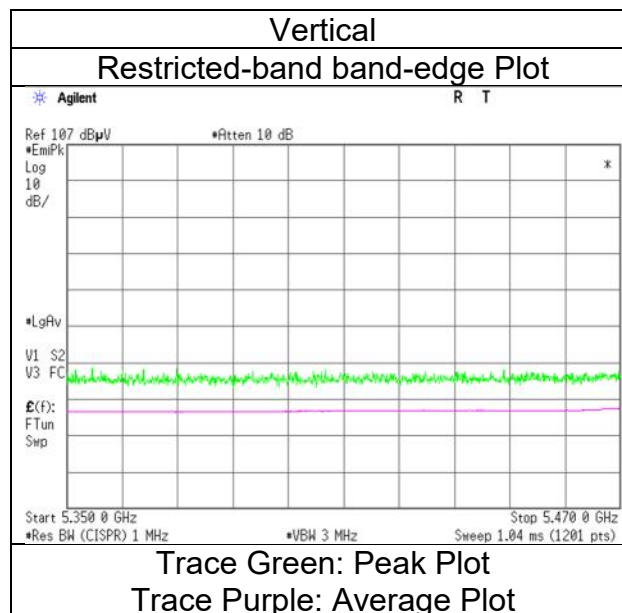
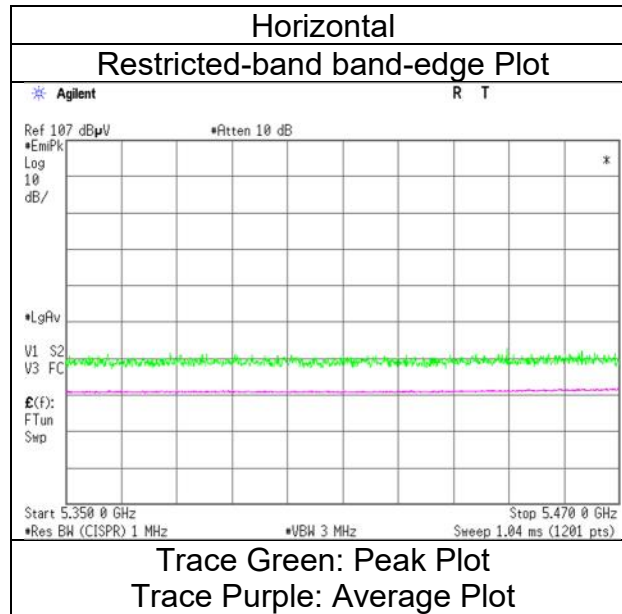
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11n-40, 5510 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5670 MHz

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

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

Polarity	Frequency [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	46.62	32.57	16.71	38.95	2.49	59.44	-35.79	-27.0	8.7	109	130	-
Vert.	5725.000	PK	47.27	32.57	16.71	38.95	2.49	60.09	-35.14	-27.0	8.1	152	284	-

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

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

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

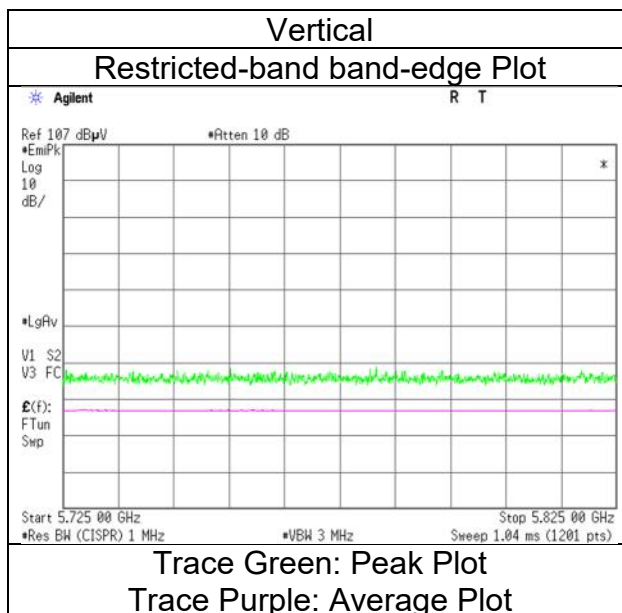
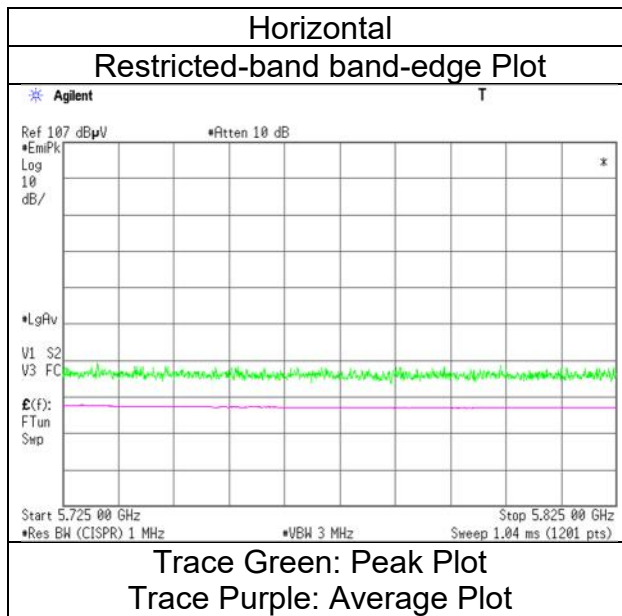
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11n-40, 5670 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 15, 2023
Temperature / Humidity 23 deg.C, 53 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5755 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.54	32.44	17.06	43.44	2.49	58.09	-37.14	-27.0	10.1	179	298	-
Hori.	5700.000	PK	48.62	32.56	17.08	43.43	2.49	57.32	-37.91	10.0	47.9	179	298	-
Hori.	5720.000	PK	48.05	32.61	17.09	43.42	2.49	56.82	-38.41	15.6	54.0	179	298	-
Hori.	5725.000	PK	48.83	32.63	17.10	43.42	2.49	57.63	-37.60	27.0	64.6	179	298	-
Vert.	5650.000	PK	49.32	32.44	17.06	43.44	2.49	57.87	-37.36	-27.0	10.3	207	228	-
Vert.	5700.000	PK	50.19	32.56	17.08	43.43	2.49	58.89	-36.34	10.0	46.3	207	228	-
Vert.	5720.000	PK	50.68	32.61	17.09	43.42	2.49	59.45	-35.78	15.6	51.3	207	228	-
Vert.	5725.000	PK	50.38	32.63	17.10	43.42	2.49	59.18	-36.05	27.0	63.0	207	228	-

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

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

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

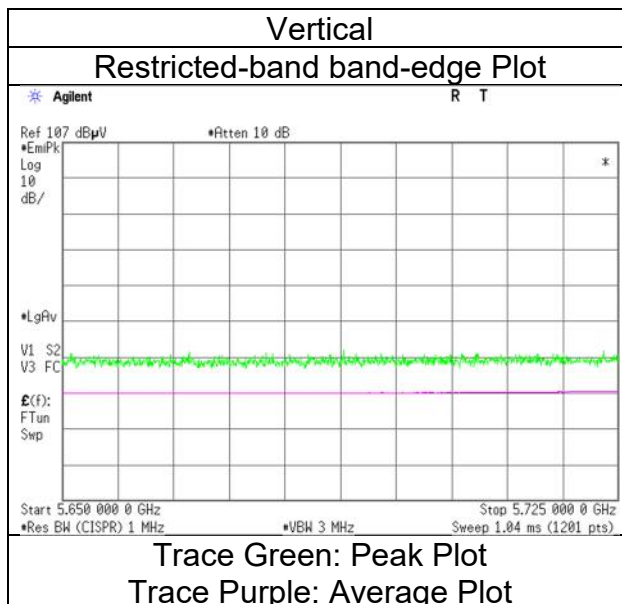
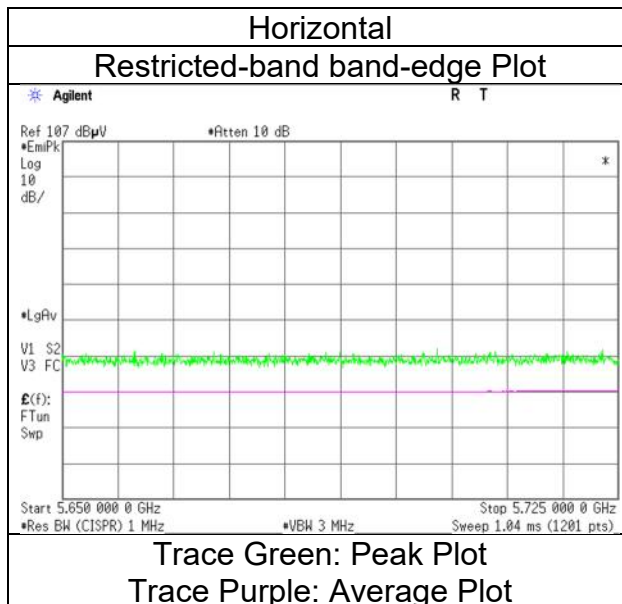
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 15, 2023
23 deg.C, 53 %RH
Kouki Yamada
Tx 11n-40, 5755 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 15, 2023
Temperature / Humidity 23 deg.C, 53 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11n-40, 5795 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.74	32.94	17.17	43.39	2.49	58.95	-36.28	27.0	63.2	194	278	-
Hori.	5855.000	PK	49.03	32.95	17.17	43.39	2.49	58.25	-36.98	15.6	52.5	194	278	-
Hori.	5875.000	PK	49.42	32.98	17.21	43.39	2.49	58.71	-36.52	10.0	46.5	194	278	-
Hori.	5925.000	PK	49.05	33.06	17.23	43.38	2.49	58.45	-36.78	-27.0	9.7	194	278	-
Vert.	5850.000	PK	49.40	32.94	17.17	43.39	2.49	58.61	-36.62	27.0	63.6	151	226	-
Vert.	5855.000	PK	49.33	32.95	17.17	43.39	2.49	58.55	-36.68	15.6	52.2	151	226	-
Vert.	5875.000	PK	49.41	32.98	17.21	43.39	2.49	58.70	-36.53	10.0	46.5	151	226	-
Vert.	5925.000	PK	48.84	33.06	17.23	43.38	2.49	58.24	-36.99	-27.0	9.9	151	226	-

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

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

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

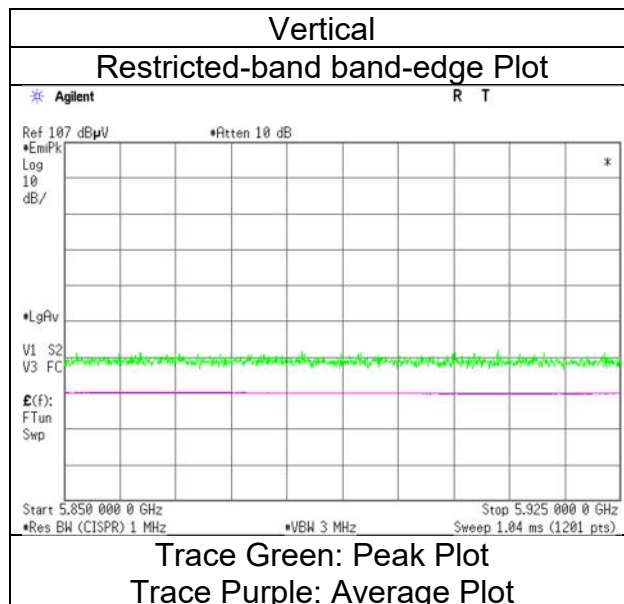
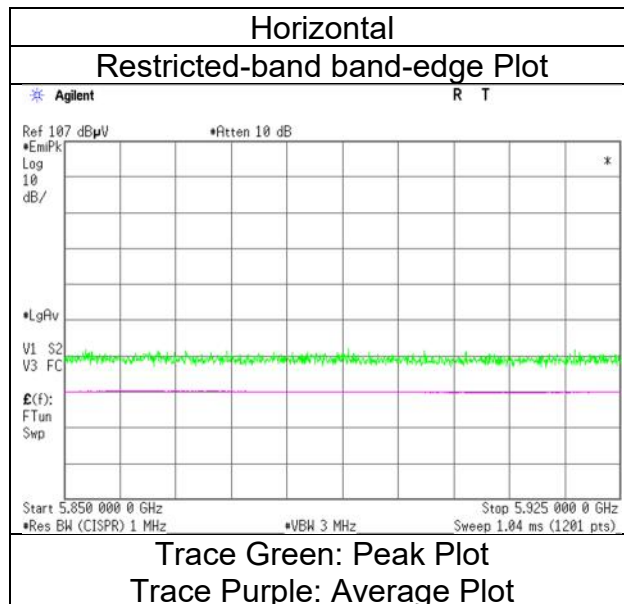
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 15, 2023
23 deg.C, 53 %RH
Kouki Yamada
Tx 11n-40, 5795 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 15, 2023
Temperature / Humidity 23 deg.C, 53 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5190 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.17	32.16	16.74	43.07	2.49	57.49	73.9	16.4	179	180	-
Hori.	5150.000	AV	36.47	32.16	16.74	43.07	2.49	44.79	53.9	9.1	179	180	VBW:10 Hz
Vert.	5150.000	PK	49.90	32.16	16.74	43.07	2.49	58.22	73.9	15.6	219	141	-
Vert.	5150.000	AV	36.73	32.16	16.74	43.07	2.49	45.05	53.9	8.8	219	141	VBW:10 Hz

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

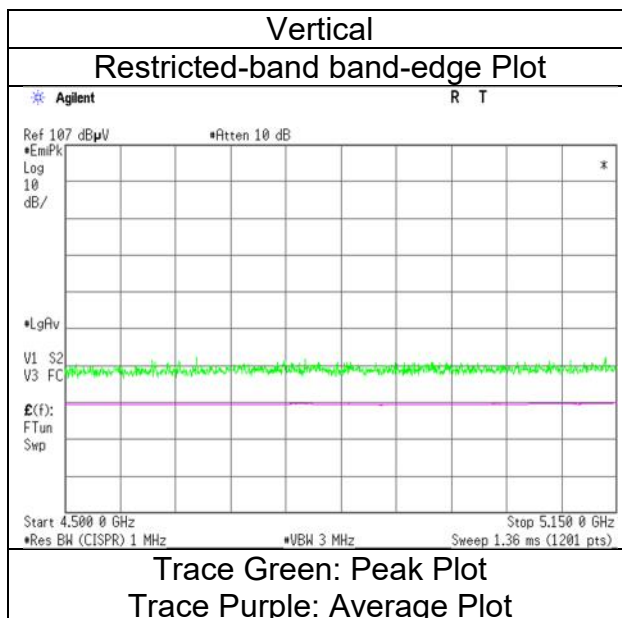
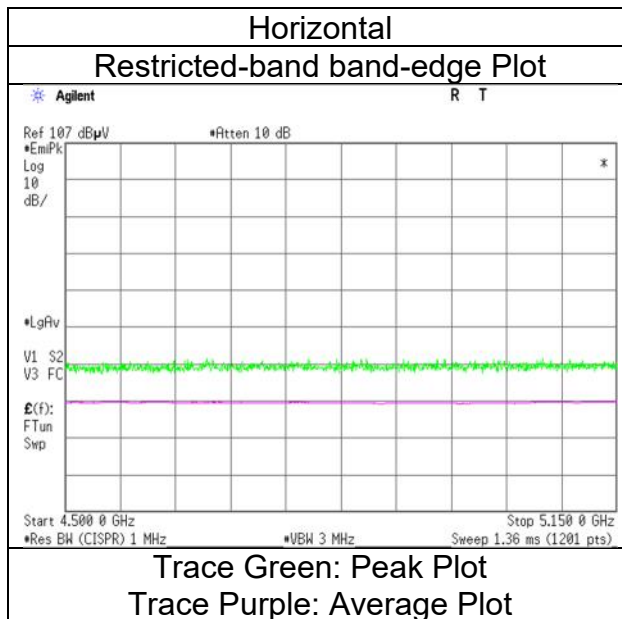
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 15, 2023
23 deg.C, 53 %RH
Kouki Yamada
Tx 11ac-40, 5190 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5310 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	46.81	31.95	16.49	38.83	2.49	58.91	73.9	14.9	128	128	-
Hori.	5350.000	AV	34.00	31.95	16.49	38.83	2.49	46.10	53.9	7.8	128	128	VBW:10 Hz
Vert.	5350.000	PK	47.88	31.95	16.49	38.83	2.49	59.98	73.9	13.9	229	146	-
Vert.	5350.000	AV	34.17	31.95	16.49	38.83	2.49	46.27	53.9	7.6	229	146	VBW:10 Hz

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

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

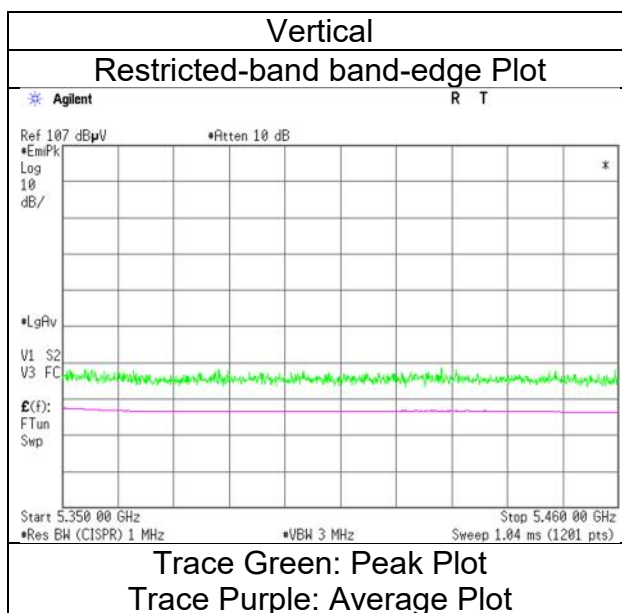
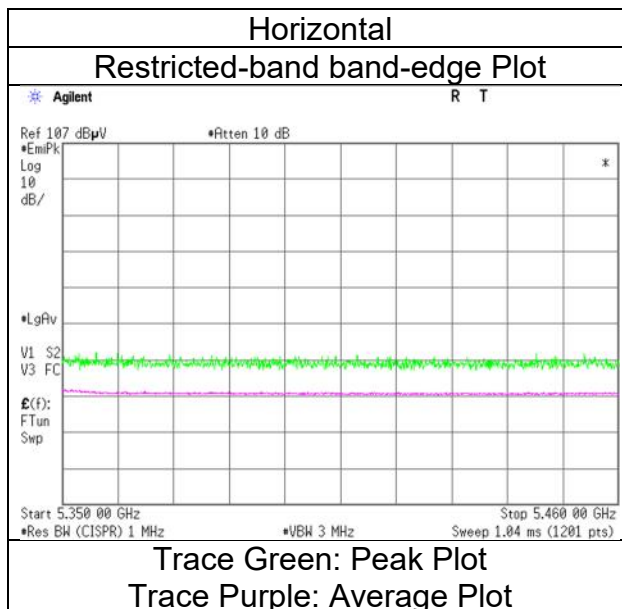
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11ac-40, 5310 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5510 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	46.07	32.14	16.56	38.89	2.49	58.37	73.9	15.5	139	132	-
Hori.	5460.000	AV	33.73	32.14	16.56	38.89	2.49	46.03	53.9	7.8	139	132	VBW:10 Hz
Vert.	5460.000	PK	47.00	32.14	16.56	38.89	2.49	59.30	73.9	14.6	214	143	-
Vert.	5460.000	AV	33.56	32.14	16.56	38.89	2.49	45.86	53.9	8.0	214	143	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.19	32.15	16.57	38.89	2.49	58.51	-36.72	-27.0	9.7	139	132	-
Vert.	5470.000	PK	47.99	32.15	16.57	38.89	2.49	60.31	-34.92	-27.0	7.9	214	143	-

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

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

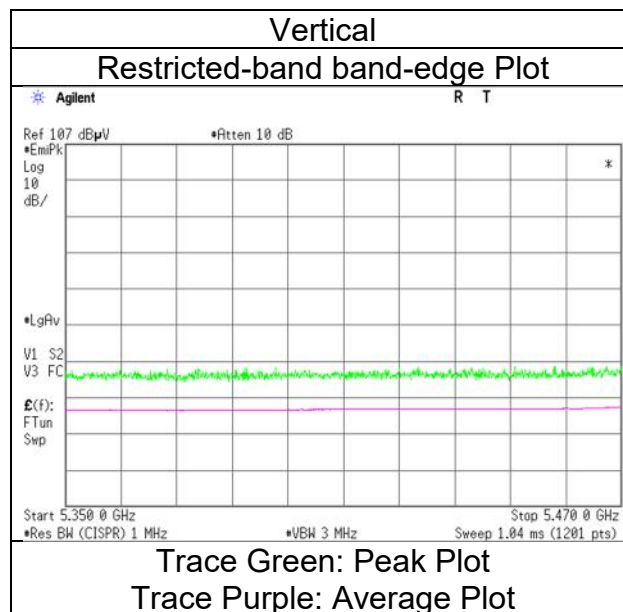
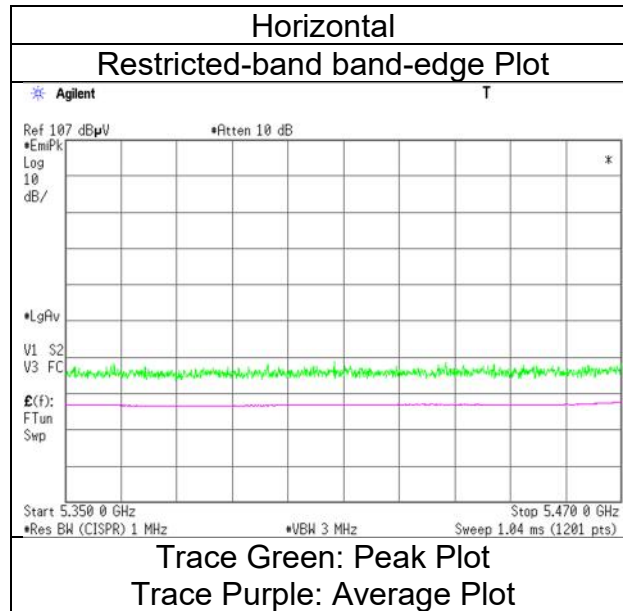
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	July 25, 2023
Temperature / Humidity	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-40, 5510 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 2
Date July 25, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5670 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.41	32.57	16.71	38.95	2.49	59.23	-36.00	-27.0	9.0	133	130	-
Vert.	5725.000	PK	47.60	32.57	16.71	38.95	2.49	60.42	-34.81	-27.0	7.8	227	110	-

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

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

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

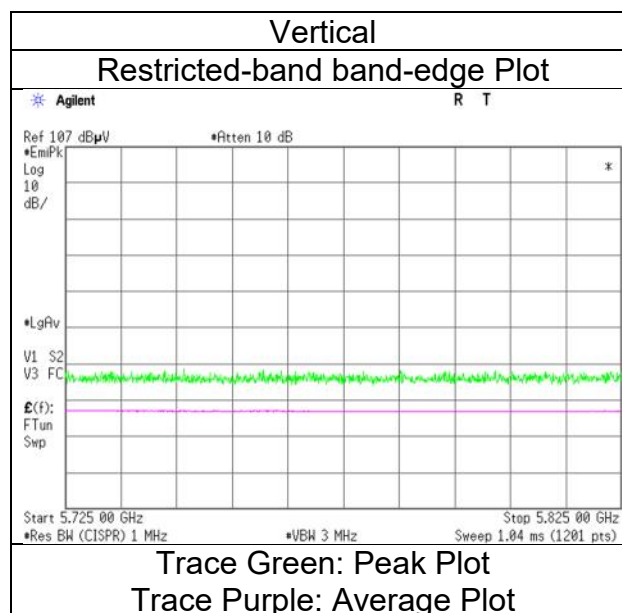
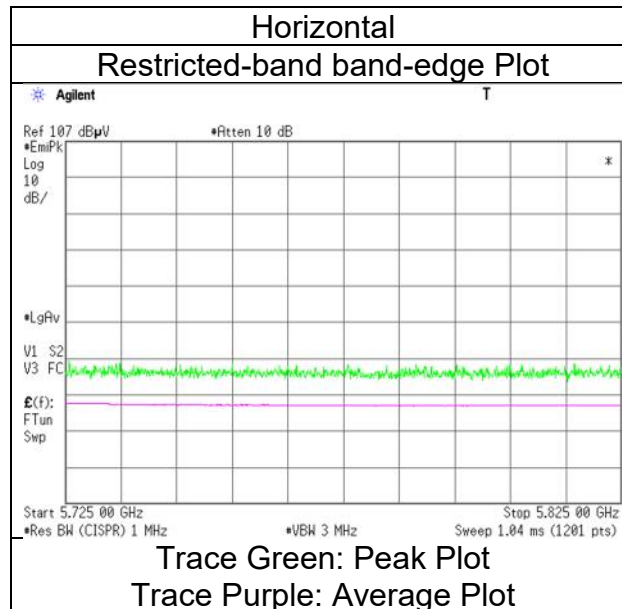
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11ac-40, 5670 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 15, 2023
Temperature / Humidity 23 deg.C, 53 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5755 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.00	32.44	17.06	43.44	2.49	57.55	-37.68	-27.0	10.6	177	296	-
Hori.	5700.000	PK	49.07	32.56	17.08	43.43	2.49	57.77	-37.46	10.0	47.4	177	296	-
Hori.	5720.000	PK	49.09	32.61	17.09	43.42	2.49	57.86	-37.37	15.6	52.9	177	296	-
Hori.	5725.000	PK	49.58	32.63	17.10	43.42	2.49	58.38	-36.85	27.0	63.8	177	296	-
Vert.	5650.000	PK	49.72	32.44	17.06	43.44	2.49	58.27	-36.96	-27.0	9.9	159	227	-
Vert.	5700.000	PK	49.76	32.56	17.08	43.43	2.49	58.46	-36.77	10.0	46.7	159	227	-
Vert.	5720.000	PK	49.82	32.61	17.09	43.42	2.49	58.59	-36.64	15.6	52.2	159	227	-
Vert.	5725.000	PK	49.73	32.63	17.10	43.42	2.49	58.53	-36.70	27.0	63.7	159	227	-

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

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

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

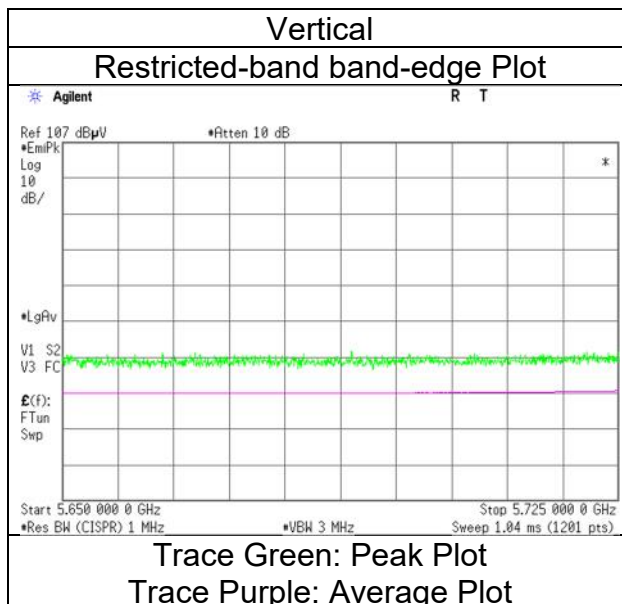
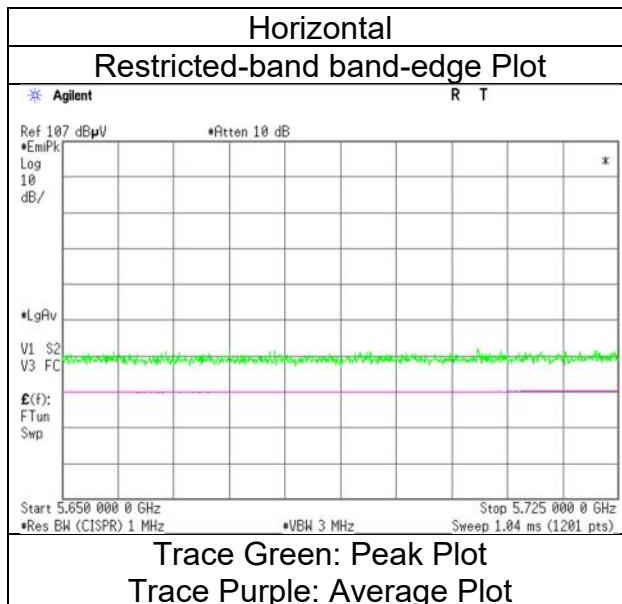
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 15, 2023
23 deg.C, 53 %RH
Kouki Yamada
Tx 11ac-40, 5755 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 15, 2023
Temperature / Humidity 23 deg.C, 53 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ac-40, 5795 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.90	32.94	17.17	43.39	2.49	58.11	-37.12	27.0	64.1	241	251	-
Hori.	5855.000	PK	49.29	32.95	17.17	43.39	2.49	58.51	-36.72	15.6	52.3	241	251	-
Hori.	5875.000	PK	49.05	32.98	17.21	43.39	2.49	58.34	-36.89	10.0	46.8	241	251	-
Hori.	5925.000	PK	49.34	33.06	17.23	43.38	2.49	58.74	-36.49	-27.0	9.4	241	251	-
Vert.	5850.000	PK	48.42	32.94	17.17	43.39	2.49	57.63	-37.60	27.0	64.6	149	298	-
Vert.	5855.000	PK	49.02	32.95	17.17	43.39	2.49	58.24	-36.99	15.6	52.5	149	298	-
Vert.	5875.000	PK	49.32	32.98	17.21	43.39	2.49	58.61	-36.62	10.0	46.6	149	298	-
Vert.	5925.000	PK	48.89	33.06	17.23	43.38	2.49	58.29	-36.94	-27.0	9.9	149	298	-

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

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

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

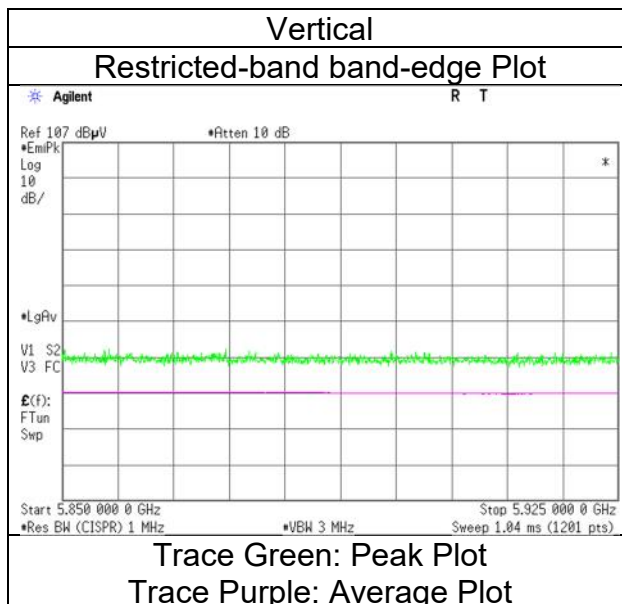
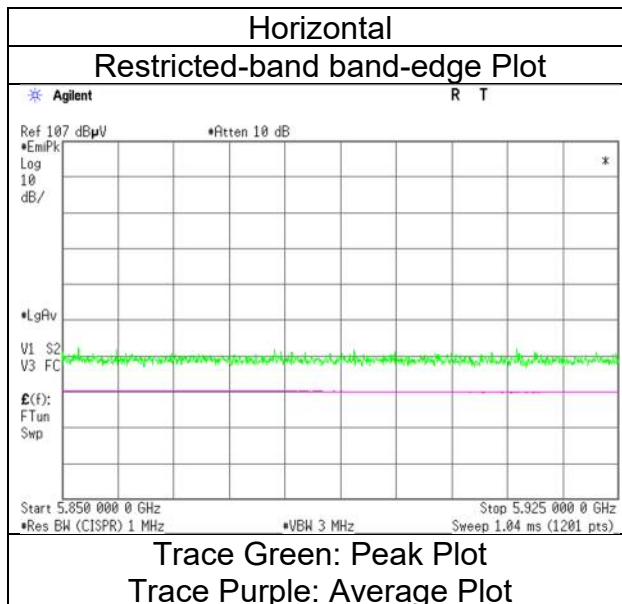
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
June 15, 2023
23 deg.C, 53 %RH
Kouki Yamada
Tx 11ac-40, 5795 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 17, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	23 deg.C, 52 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Kenichi Adachi	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 (OFDM), 5190 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.37	32.16	16.74	43.07	2.49	56.69	73.9	17.2	201	121	-
Hori.	15570.000	PK	47.11	39.49	11.83	40.53	-9.54	48.36	73.9	25.5	150	0	-
Hori.	5150.000	AV	37.55	32.16	16.74	43.07	2.49	45.87	53.9	8.0	201	121	VBW 10 Hz
Hori.	15570.000	AV	36.82	39.49	11.83	40.53	-9.54	38.07	53.9	15.8	150	0	Floor Noise
Vert.	5150.000	PK	47.89	32.16	16.74	43.07	2.49	56.21	73.9	17.6	211	145	-
Vert.	15570.000	PK	46.04	39.49	11.83	40.53	-9.54	47.29	73.9	26.6	150	0	-
Vert.	5150.000	AV	37.14	32.16	16.74	43.07	2.49	45.46	53.9	8.4	211	145	VBW 10 Hz
Vert.	15570.000	AV	36.00	39.49	11.83	40.53	-9.54	37.25	53.9	16.6	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10380.000	PK	48.10	36.36	9.49	42.84	-9.54	41.57	-53.66	-27.0	26.6	150	0	-
Hori.	36330.000	PK	57.25	43.70	19.84	67.92	-9.54	43.33	-51.90	-27.0	24.9	153	47	-
Vert.	10380.000	PK	48.65	36.36	9.49	42.84	-9.54	42.12	-53.11	-27.0	26.1	150	0	-
Vert.	36330.000	PK	59.71	43.70	19.84	67.92	-9.54	45.79	-49.44	-27.0	22.4	173	236	-

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

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

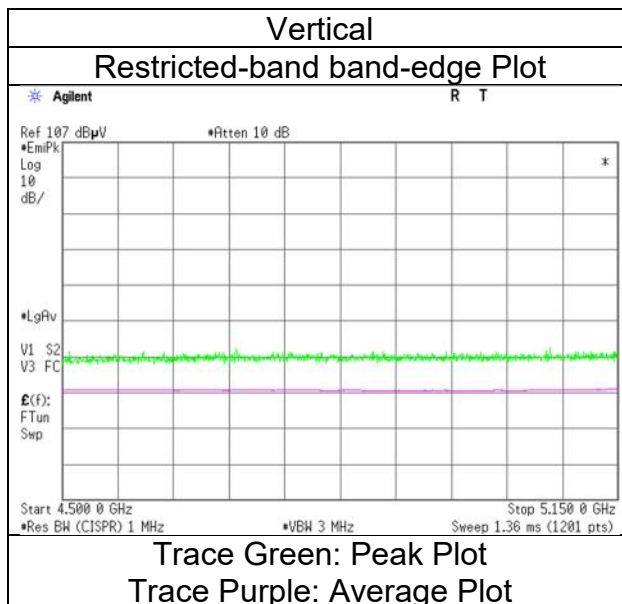
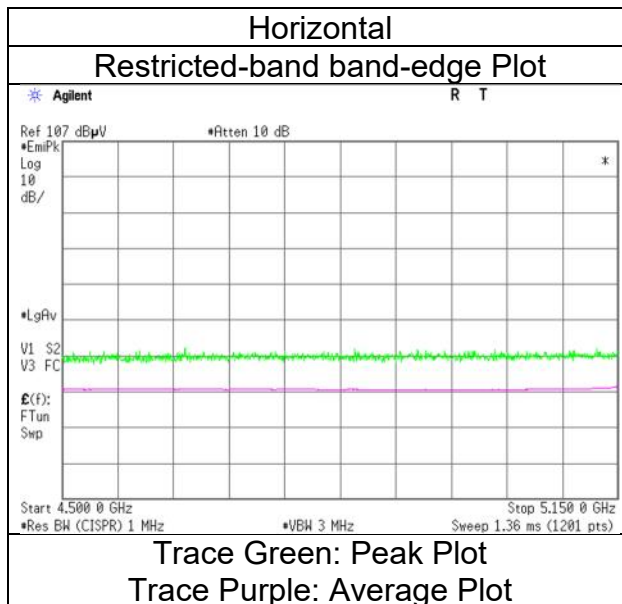
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	June 17, 2023
Temperature / Humidity	23 deg.C, 52 %RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40 (OFDM), 5190 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 17, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	23 deg.C, 52 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Kenichi Adachi	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 (OFDM), 5230 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.82	32.16	16.74	43.07	2.49	56.14	73.9	17.7	179	125	-
Hori.	15690.000	PK	47.56	39.59	11.80	40.55	-9.54	48.86	73.9	25.0	150	0	-
Hori.	5150.000	AV	37.08	32.16	16.74	43.07	2.49	45.40	53.9	8.5	179	125	VBW 10 Hz
Hori.	15690.000	AV	35.67	39.59	11.80	40.55	-9.54	36.97	53.9	16.9	150	0	Floor Noise
Vert.	5150.000	PK	47.78	32.16	16.74	43.07	2.49	56.10	73.9	17.8	196	146	-
Vert.	15690.000	PK	46.75	39.59	11.80	40.55	-9.54	48.05	73.9	25.8	150	0	-
Vert.	5150.000	AV	36.94	32.16	16.74	43.07	2.49	45.26	53.9	8.6	196	146	VBW 10 Hz
Vert.	15690.000	AV	33.66	39.59	11.80	40.55	-9.54	34.96	53.9	18.9	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10460.000	PK	48.41	36.48	9.51	42.84	-9.54	42.02	-53.21	-27.0	26.2	150	0	-
Hori.	36610.000	PK	58.07	43.72	19.92	68.57	-9.54	43.60	-51.63	-27.0	24.6	303	333	-
Vert.	10460.000	PK	49.12	36.48	9.51	42.84	-9.54	42.73	-52.50	-27.0	25.5	150	0	-
Vert.	36610.000	PK	59.83	43.72	19.92	68.57	-9.54	45.36	-49.87	-27.0	22.8	157	81	-

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

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

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

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	SAC 2	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	July 25, 2023	June 17, 2023	June 20, 2023	June 21, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	23 deg.C, 50 %RH	23 deg.C, 52 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH	23 deg.C, 44 %RH
Engineer	Yohsuke Matsuzawa	Kenichi Adachi	Hiromasa Sato	Ken Fujita	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -6.4 GHz) Tx 11ax-40 (OFDM), 5310 MHz	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)	

(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	45.08	31.95	16.49	38.83	2.49	57.18	73.9	16.7	123	127	-
Hori.	10620.000	PK	48.48	37.05	9.58	42.85	-9.54	42.72	73.9	31.1	150	0	-
Hori.	15930.000	PK	47.80	40.05	11.74	40.60	-9.54	49.45	73.9	24.4	150	0	-
Hori.	5350.000	AV	37.42	31.95	16.49	38.83	2.49	49.52	53.9	4.3	123	127	VBW 10 Hz
Hori.	10620.000	AV	36.13	37.05	9.58	42.85	-9.54	30.37	53.9	23.5	150	0	Floor Noise
Hori.	15930.000	AV	35.35	40.05	11.74	40.60	-9.54	37.00	53.9	16.9	150	0	Floor Noise
Vert.	5350.000	PK	47.52	31.95	16.49	38.83	2.49	59.62	73.9	14.2	228	142	-
Vert.	10620.000	PK	48.08	37.05	9.58	42.85	-9.54	42.32	73.9	31.5	150	0	-
Vert.	15930.000	PK	47.34	40.05	11.74	40.60	-9.54	48.99	73.9	24.9	150	0	-
Vert.	5350.000	AV	34.27	31.95	16.49	38.83	2.49	46.37	53.9	7.5	228	142	VBW 10 Hz
Vert.	10620.000	AV	33.41	37.05	9.58	42.85	-9.54	27.65	53.9	26.2	150	0	Floor Noise
Vert.	15930.000	AV	34.18	40.05	11.74	40.60	-9.54	35.83	53.9	18.0	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	37170.000	PK	60.45	43.69	20.16	70.19	-9.54	44.57	-50.66	-27.0	23.6	171	333	-
Vert.	37170.000	PK	62.17	43.69	20.16	70.19	-9.54	46.29	-48.94	-27.0	21.9	174	82	-

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

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

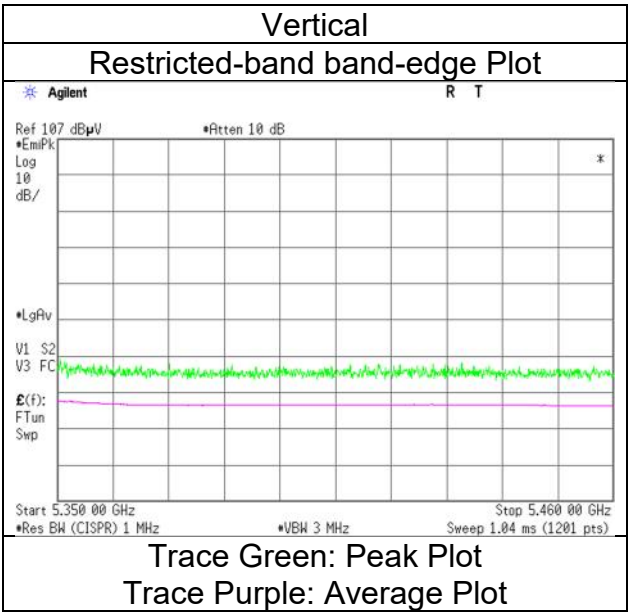
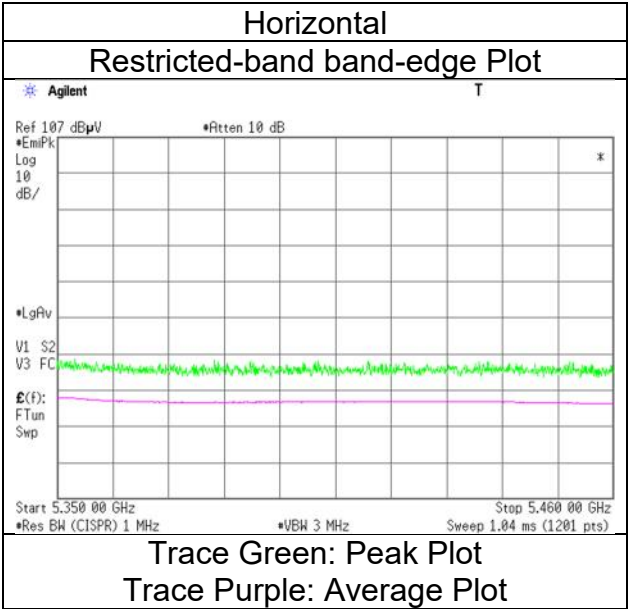
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	July 25, 2023
Temperature / Humidity	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-40 (OFDM), 5310 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	SAC 3	SAC 2	SAC 3	SAC 3	SAC 3	SAC 3
Date	October 20, 2023	July 25, 2023	June 17, 2023	October 29, 2023	June 21, 2023	October 29, 2023
Temperature / Humidity	23 deg.C, 44 %RH	23 deg.C, 50 %RH	23 deg.C, 52 %RH	23 deg.C, 50 %RH	24 deg.C, 43 %RH	23 deg.C, 50 %RH
Engineer	Hiromasa Sato	Yohsuke Matsuzawa	Kenichi Adachi	Yohsuke Matsuzawa	Ken Fujita	Yohsuke Matsuzawa
Mode	(30 MHz -1 GHz) Tx 11ax-40 (OFDM), 5510 MHz	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	33.270	QP	20.99	17.75	6.65	32.20	0.00	15.68	40.0	24.3	150	0	-
Hori.	736.093	QP	20.38	20.17	10.42	31.79	0.00	21.67	46.0	24.3	150	2	-
Hori.	817.801	QP	19.81	20.78	10.69	31.55	0.00	22.22	46.0	23.7	150	1	-
Hori.	5460.000	PK	47.49	32.14	16.56	38.89	2.49	59.79	73.9	14.1	122	131	-
Hori.	11020.000	PK	49.71	37.59	9.73	42.89	-9.54	44.60	73.9	29.3	150	0	-
Hori.	5460.000	AV	33.61	32.14	16.56	38.89	2.49	45.91	53.9	7.9	122	131	VBW: 10 Hz
Hori.	11020.000	AV	37.81	37.59	9.73	42.89	-9.54	32.70	53.9	21.2	150	0	Floor Noise
Vert.	30.119	QP	22.03	18.97	6.61	32.20	0.00	17.90	40.0	22.1	150	2	-
Vert.	31.891	QP	21.58	18.31	6.63	32.20	0.00	16.81	40.0	23.1	150	1	-
Vert.	738.693	QP	20.12	20.17	10.42	31.78	0.00	21.42	46.0	24.5	150	1	-
Vert.	752.607	QP	20.08	20.11	10.47	31.75	0.00	21.40	46.0	24.6	150	0	-
Vert.	5460.000	PK	47.46	32.14	16.56	38.89	2.49	59.76	73.9	14.1	227	146	-
Vert.	11020.000	PK	50.69	37.59	9.73	42.89	-9.54	45.58	73.9	28.3	150	0	-
Vert.	5460.000	AV	33.73	32.14	16.56	38.89	2.49	46.03	53.9	7.8	227	146	VBW: 10 Hz
Vert.	11020.000	AV	37.73	37.59	9.73	42.89	-9.54	32.62	53.9	21.2	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.32	32.15	16.57	38.89	2.49	60.64	-34.59	-27.0	7.5	122	131	-
Hori.	16530.000	PK	47.71	40.11	12.46	40.64	-9.54	50.10	-45.13	-27.0	18.1	150	0	-
Hori.	38570.000	PK	61.53	44.05	20.70	70.68	-9.54	46.06	-49.17	-27.0	22.1	154	266	-
Vert.	5470.000	PK	49.87	32.15	16.57	38.89	2.49	62.19	-33.04	-27.0	6.0	227	146	-
Vert.	16530.000	PK	47.25	40.11	12.46	40.64	-9.54	49.64	-45.59	-27.0	18.5	150	0	-
Vert.	38570.000	PK	64.00	44.05	20.70	70.68	-9.54	48.53	-46.70	-27.0	19.7	165	249	-

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

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

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

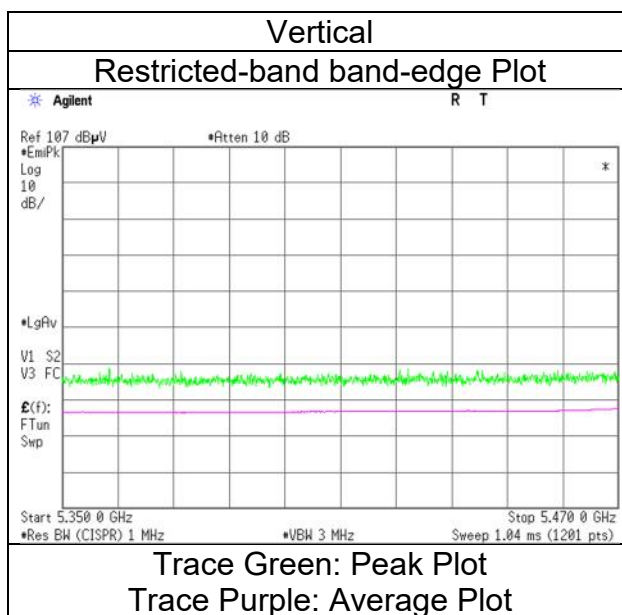
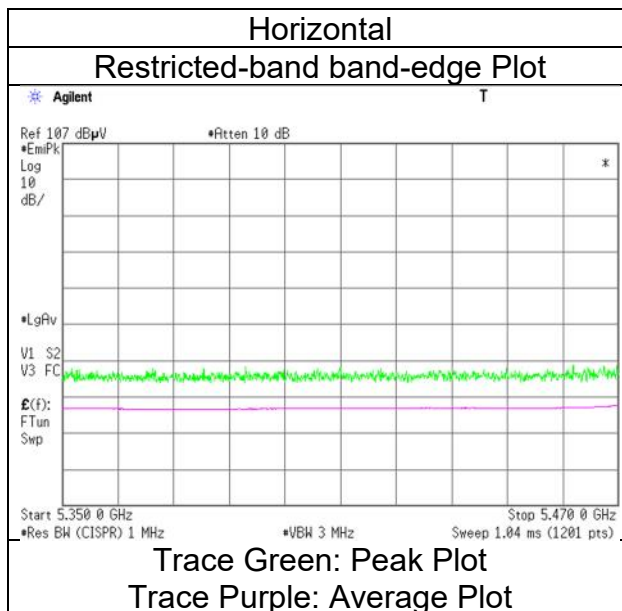
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 2
July 25, 2023
23 deg.C, 50 %RH
Yohsuke Matsuzawa
Tx 11ax-40 (OFDM), 5510 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	SAC 2	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	July 13, 2023	June 17, 2023	October 29, 2023	June 21, 2023	October 29, 2023	October 29, 2023
Temperature / Humidity	23 deg.C, 52 %RH	23 deg.C, 52 %RH	23 deg.C, 50 %RH	24 deg.C, 43 %RH	23 deg.C, 50 %RH	23 deg.C, 50 %RH
Engineer	Shiro Kobayashi	Kenichi Adachi	Yohsuke Matsuzawa	Ken Fujita	Yohsuke Matsuzawa	Yohsuke Matsuzawa
Mode	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)	
	Tx 11ax-40 (OFDM), 5550 MHz					

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11100.000	PK	50.45	37.63	9.78	42.84	-9.54	45.48	73.9	28.4	150	0	-
Hori.	38850.000	PK	59.36	44.06	20.67	69.60	-9.54	44.95	73.9	28.9	181	263	-
Hori.	11100.000	AV	37.33	37.63	9.78	42.84	-9.54	32.36	53.9	21.5	150	0	Floor Noise
Hori.	38850.000	AV	48.56	44.06	20.67	69.60	-9.54	34.15	53.9	19.7	181	263	VBW: 10 Hz
Vert.	11100.000	PK	50.85	37.63	9.78	42.84	-9.54	45.88	73.9	28.0	150	0	-
Vert.	38850.000	PK	61.87	44.06	20.67	69.60	-9.54	47.46	73.9	26.4	170	94	-
Vert.	11100.000	AV	38.13	37.63	9.78	42.84	-9.54	33.16	53.9	20.7	150	0	Floor Noise
Vert.	38850.000	AV	54.72	44.06	20.67	69.60	-9.54	40.31	53.9	13.5	170	94	VBW: 10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16650.000	PK	49.68	39.77	12.50	40.60	-9.54	51.81	-43.42	-27.0	16.4	150	0	-
Vert.	16650.000	PK	50.00	39.77	12.50	40.60	-9.54	52.13	-43.10	-27.0	16.1	150	0	-

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

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

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

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 2	SAC 3	SAC 3	SAC 3	SAC 3
Date	July 25, 2023	June 17, 2023	October 29, 2023	June 21, 2023	October 29, 2023
Temperature / Humidity	23 deg.C, 50 %RH	23 deg.C, 52 %RH	23 deg.C, 50 %RH	24 deg.C, 43 %RH	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa	Kenichi Adachi	Yohsuke Matsuzawa	Ken Fujita	Yohsuke Matsuzawa
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 (OFDM), 5670 MHz				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11340.000	PK	49.42	38.17	9.90	42.68	-9.54	45.27	73.9	28.6	150	0	-
Hori.	39690.000	PK	59.67	44.14	20.78	68.20	-9.54	46.85	73.9	27.0	165	266	-
Hori.	11340.000	AV	36.63	38.17	9.90	42.68	-9.54	32.48	53.9	21.4	150	0	Floor Noise
Hori.	39690.000	AV	48.65	44.14	20.78	68.20	-9.54	35.83	53.9	18.0	165	266	VBW: 10 Hz
Vert.	11340.000	PK	49.88	38.17	9.90	42.68	-9.54	45.73	73.9	28.1	150	0	-
Vert.	39690.000	PK	63.15	44.14	20.78	68.20	-9.54	50.33	73.9	23.5	184	96	-
Vert.	11340.000	AV	37.43	38.17	9.90	42.68	-9.54	33.28	53.9	20.6	150	0	Floor Noise
Vert.	39690.000	AV	56.77	44.14	20.78	68.20	-9.54	43.95	53.9	9.9	184	96	VBW: 10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	45.22	32.57	16.71	38.95	2.49	58.04	-37.19	-27.0	10.1	132	129	-
Hori.	17010.000	PK	48.25	39.67	12.60	40.48	-9.54	50.50	-44.73	-27.0	17.7	150	0	-
Vert.	5725.000	PK	47.57	32.57	16.71	38.95	2.49	60.39	-34.84	-27.0	7.8	186	107	-
Vert.	17010.000	PK	47.68	39.67	12.60	40.48	-9.54	49.93	-45.30	-27.0	18.3	150	0	-

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

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

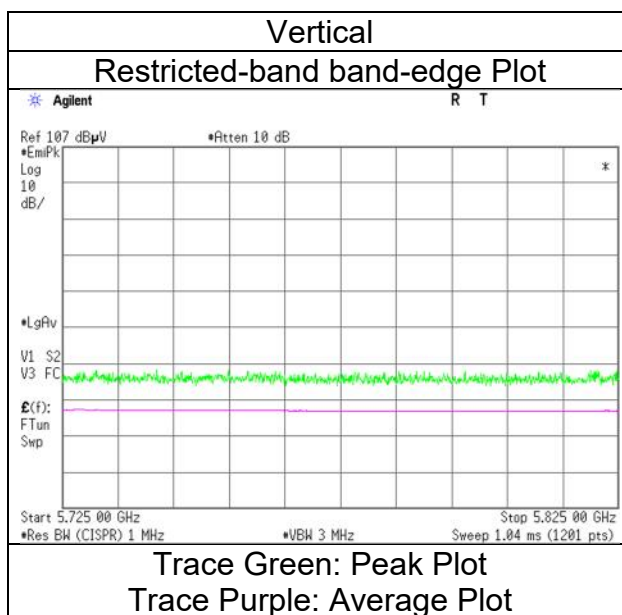
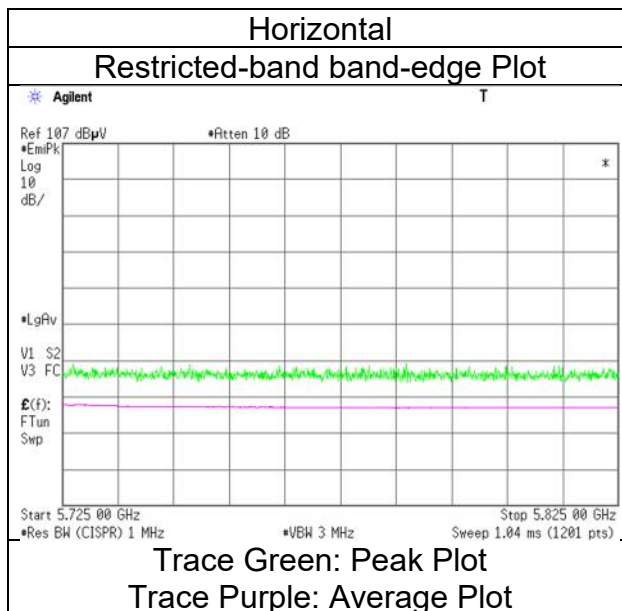
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	July 25, 2023
Temperature / Humidity	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-40 (OFDM), 5670 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 17, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	23 deg.C, 52 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Kenichi Adachi	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 (OFDM), 5755 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11510.000	PK	47.07	38.33	10.01	42.58	-9.54	43.29	73.9	30.6	150	0	-
Hori.	11510.000	AV	35.64	38.33	10.01	42.58	-9.54	31.86	53.9	22.0	150	0	Floor Noise
Vert.	11510.000	PK	47.95	38.33	10.01	42.58	-9.54	44.17	73.9	29.7	150	0	-
Vert.	11510.000	AV	34.79	38.33	10.01	42.58	-9.54	31.01	53.9	22.8	150	0	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 (3.995 m / 3.0 m) = 2.49 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.26	32.44	17.06	43.44	2.49	56.81	-38.42	-27.0	11.4	201	123	-
Hori.	5700.000	PK	48.36	32.56	17.08	43.43	2.49	57.06	-38.17	10.0	48.1	201	123	-
Hori.	5720.000	PK	48.40	32.61	17.09	43.42	2.49	57.17	-38.06	15.6	53.6	201	123	-
Hori.	5725.000	PK	48.52	32.63	17.10	43.42	2.49	57.32	-37.91	27.0	64.9	201	123	-
Hori.	17265.000	PK	47.39	40.10	12.74	40.32	-9.54	50.37	-44.86	-27.0	17.8	150	0	-
Vert.	5650.000	PK	48.24	32.44	17.06	43.44	2.49	56.79	-38.44	-27.0	11.4	185	99	-
Vert.	5700.000	PK	48.34	32.56	17.08	43.43	2.49	57.04	-38.19	10.0	48.1	185	99	-
Vert.	5720.000	PK	48.38	32.61	17.09	43.42	2.49	57.15	-38.08	15.6	53.6	185	99	-
Vert.	5725.000	PK	48.43	32.63	17.10	43.42	2.49	57.23	-38.00	27.0	65.0	185	99	-
Vert.	17265.000	PK	47.09	40.10	12.74	40.32	-9.54	50.07	-45.16	-27.0	18.1	150	0	-

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

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

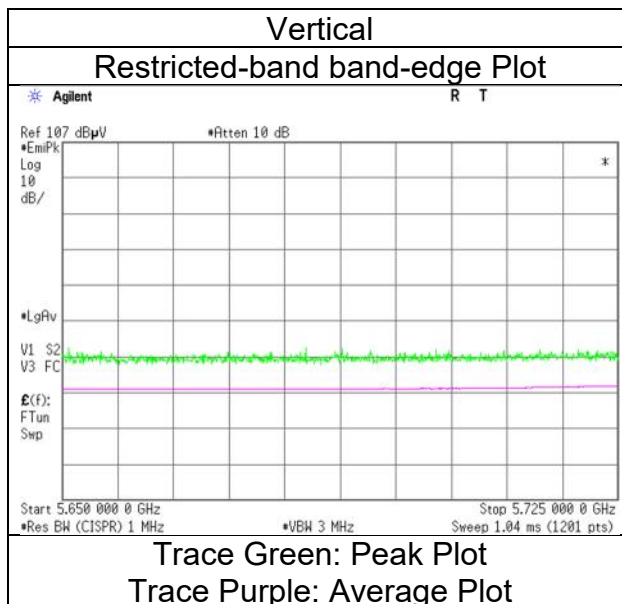
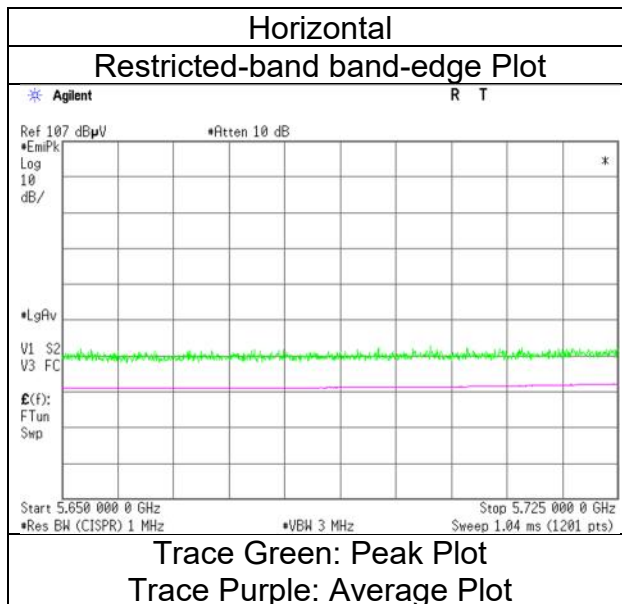
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	June 17, 2023
Temperature / Humidity	23 deg.C, 52 %RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40 (OFDM), 5755 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3
Date	June 17, 2023	June 20, 2023	June 21, 2023	June 21, 2023
Temperature / Humidity	23 deg.C, 52 %RH	21 deg.C, 47 %RH	24 deg.C, 43 %RH	23 deg.C, 44 %RH
Engineer	Kenichi Adachi	Hiromasa Sato	Ken Fujita	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 (OFDM), 5795 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11590.000	PK	49.02	38.33	10.07	42.54	-9.54	45.34	73.9	28.5	150	0	-
Hori.	11590.000	AV	36.36	38.33	10.07	42.54	-9.54	32.68	53.9	21.2	150	0	Floor Noise
Vert.	11590.000	PK	48.73	38.33	10.07	42.54	-9.54	45.05	73.9	28.8	150	0	-
Vert.	11590.000	AV	35.14	38.33	10.07	42.54	-9.54	31.46	53.9	22.4	150	0	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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.56	32.94	17.17	43.39	2.49	57.77	-37.46	27.0	64.4	198	122	-
Hori.	5855.000	PK	48.34	32.95	17.17	43.39	2.49	57.56	-37.67	15.6	53.2	198	122	-
Hori.	5875.000	PK	48.32	32.98	17.21	43.39	2.49	57.61	-37.62	10.0	47.6	198	122	-
Hori.	5925.000	PK	48.30	33.06	17.23	43.38	2.49	57.70	-37.53	-27.0	10.5	198	122	-
Hori.	17385.000	PK	47.76	40.22	12.79	40.24	-9.54	50.99	-44.24	-27.0	17.2	150	0	-
Vert.	5850.000	PK	48.37	32.94	17.17	43.39	2.49	57.58	-37.65	27.0	64.6	177	98	-
Vert.	5855.000	PK	48.33	32.95	17.17	43.39	2.49	57.55	-37.68	15.6	53.2	177	98	-
Vert.	5875.000	PK	48.26	32.98	17.21	43.39	2.49	57.55	-37.68	10.0	47.6	177	98	-
Vert.	5925.000	PK	48.24	33.06	17.23	43.38	2.49	57.64	-37.59	-27.0	10.5	177	98	-
Vert.	17385.000	PK	48.40	40.22	12.79	40.24	-9.54	51.63	-43.60	-27.0	16.6	150	0	-

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

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

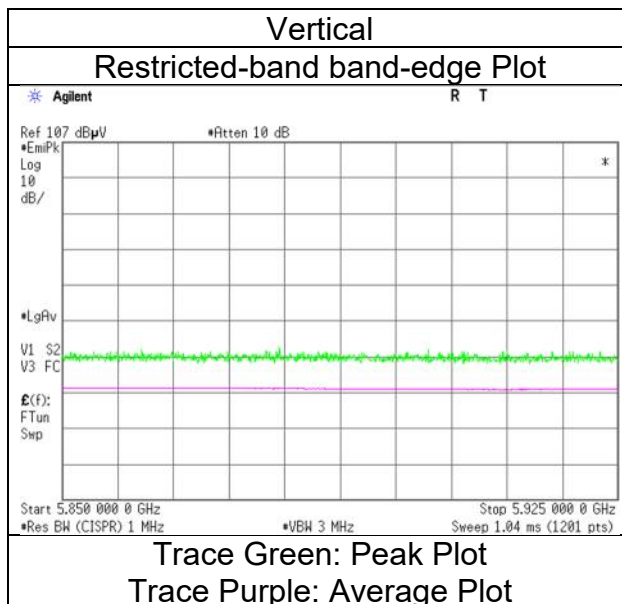
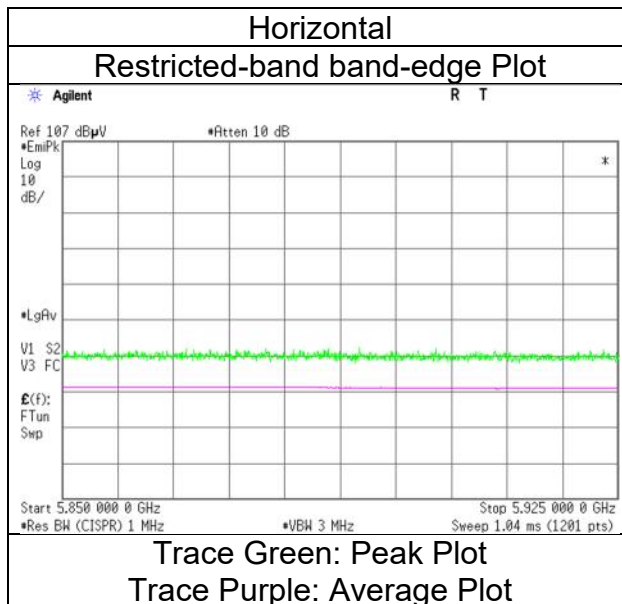
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	June 17, 2023
Temperature / Humidity	23 deg.C, 52 %RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40 (OFDM), 5795 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 24 deg. C / 53 % RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5190 MHz

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.62	32.16	16.71	43.07	2.49	57.91	73.9	15.9	175	119	-
Hori.	5150.000	AV	36.76	32.16	16.71	43.07	2.49	45.05	53.9	8.8	175	119	VBW:10 Hz
Vert.	5150.000	PK	50.09	32.16	16.71	43.07	2.49	58.38	73.9	15.5	199	141	-
Vert.	5150.000	AV	36.72	32.16	16.71	43.07	2.49	45.01	53.9	8.8	199	141	VBW:10 Hz

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

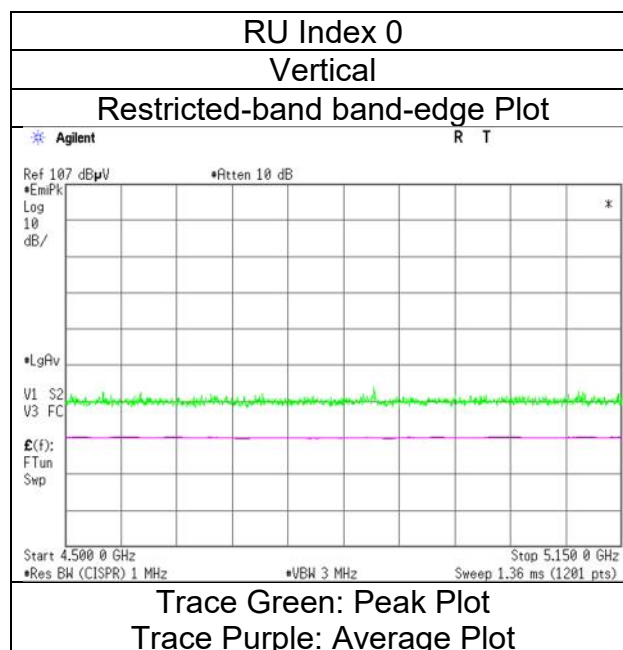
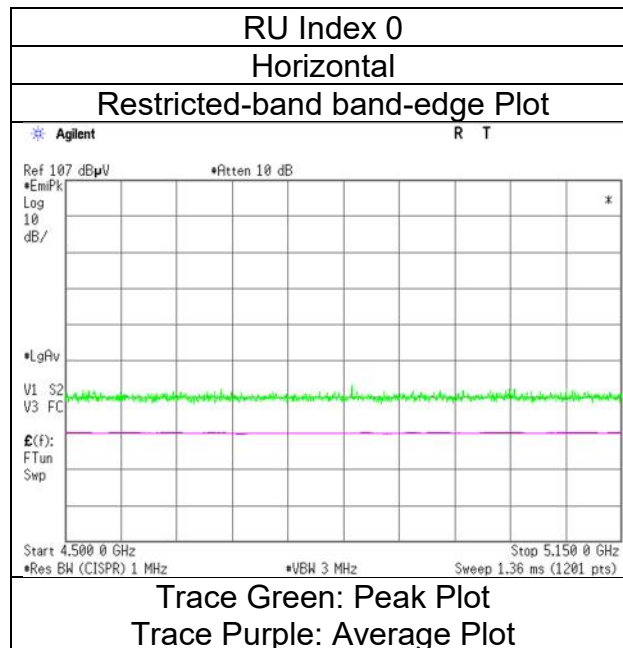
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	October 2, 2023
Temperature / Humidity	24 deg. C / 53 % RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5190 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg. C / 48 % RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5190 MHz

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.60	32.16	16.71	43.07	2.49	58.89	73.9	15.0	146	122	-
Hori.	5150.000	AV	36.88	32.16	16.71	43.07	2.49	45.17	53.9	8.7	146	122	VBW:10 Hz
Vert.	5150.000	PK	49.38	32.16	16.71	43.07	2.49	57.67	73.9	16.2	252	223	-
Vert.	5150.000	AV	37.13	32.16	16.71	43.07	2.49	45.42	53.9	8.4	252	223	VBW:10 Hz

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

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

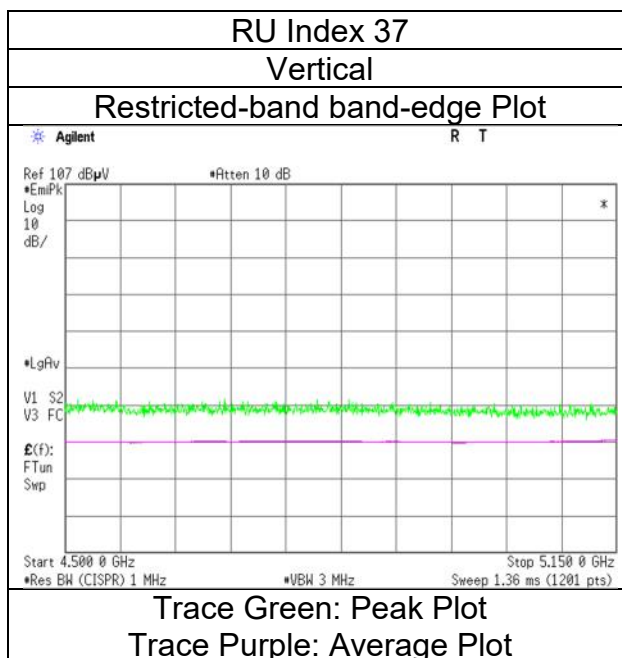
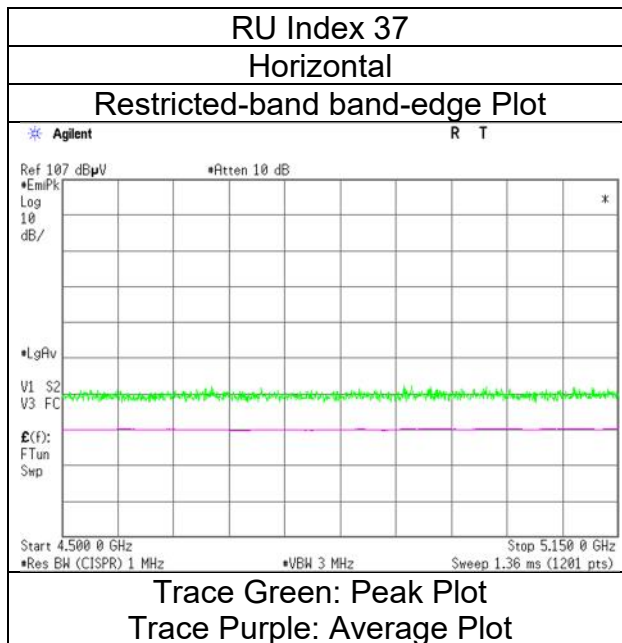
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 52-tone RU, 5190 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5190 MHz

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.50	32.16	16.71	43.07	2.49	57.79	73.9	16.1	146	123	-
Hori.	5150.000	AV	36.73	32.16	16.71	43.07	2.49	45.02	53.9	8.8	146	123	VBW:10 Hz
Vert.	5150.000	PK	51.73	32.16	16.71	43.07	2.49	60.02	73.9	13.8	264	222	-
Vert.	5150.000	AV	37.09	32.16	16.71	43.07	2.49	45.38	53.9	8.5	264	222	VBW:10 Hz

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

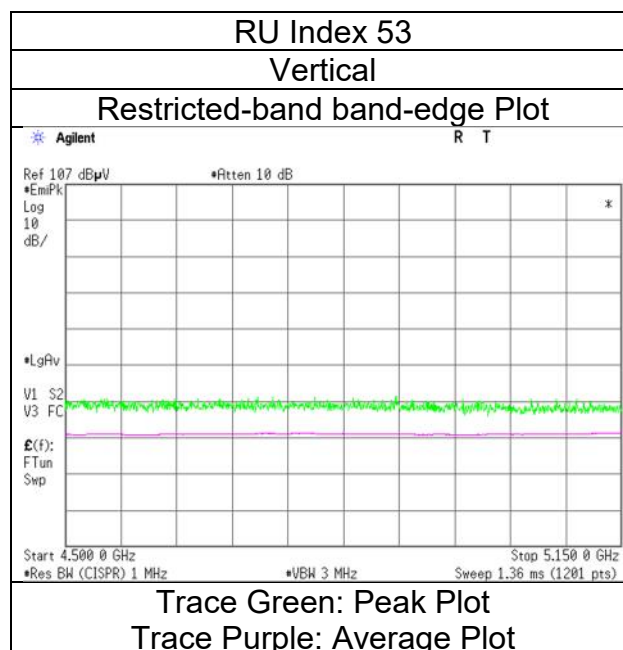
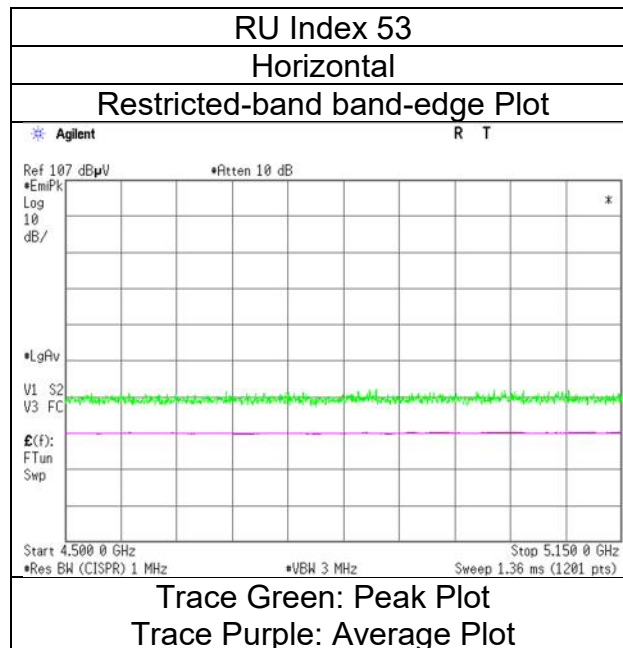
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 106 -tone RU, 5190 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5190 MHz

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.50	32.16	16.71	43.07	2.49	58.79	73.9	15.1	158	122	-
Hori.	5150.000	AV	36.80	32.16	16.71	43.07	2.49	45.09	53.9	8.8	158	122	VBW:10 Hz
Vert.	5150.000	PK	51.26	32.16	16.71	43.07	2.49	59.55	73.9	14.3	295	149	-
Vert.	5150.000	AV	37.19	32.16	16.71	43.07	2.49	45.48	53.9	8.4	295	149	VBW:10 Hz

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

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

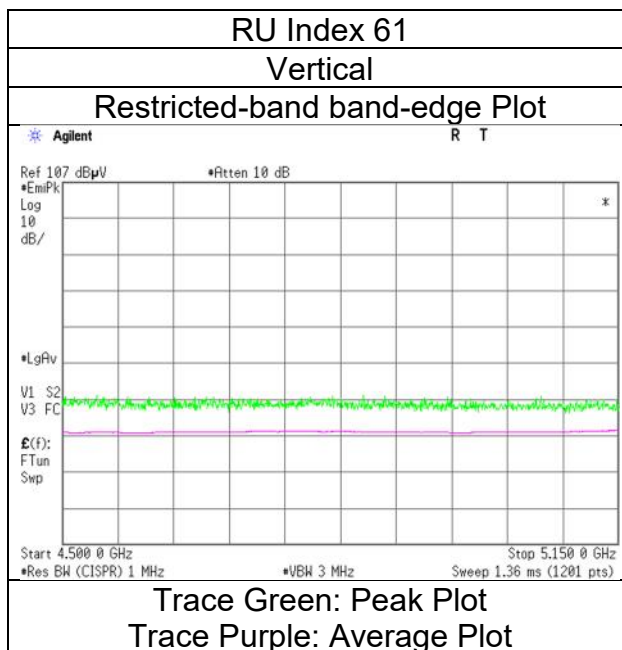
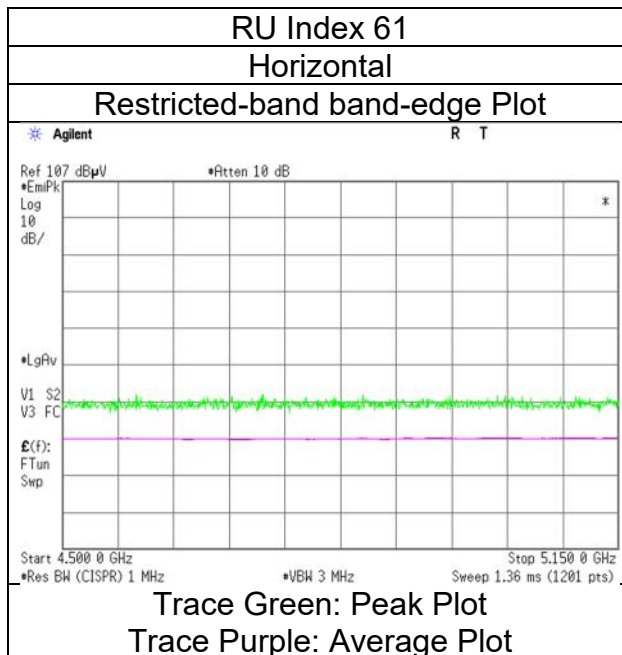
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 242-tone RU, 5190 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 21, 2023
Temperature / Humidity 23 deg.C, 46 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5190 MHz

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.42	32.16	16.71	43.07	2.49	58.71	73.9	15.1	182	122	-
Hori.	5150.000	AV	37.60	32.16	16.71	43.07	2.49	45.89	53.9	8.0	182	122	VBW: 10 Hz
Vert.	5150.000	PK	51.77	32.16	16.71	43.07	2.49	60.06	73.9	13.8	263	220	-
Vert.	5150.000	AV	37.45	32.16	16.71	43.07	2.49	45.74	53.9	8.1	263	220	VBW: 10 Hz

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

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

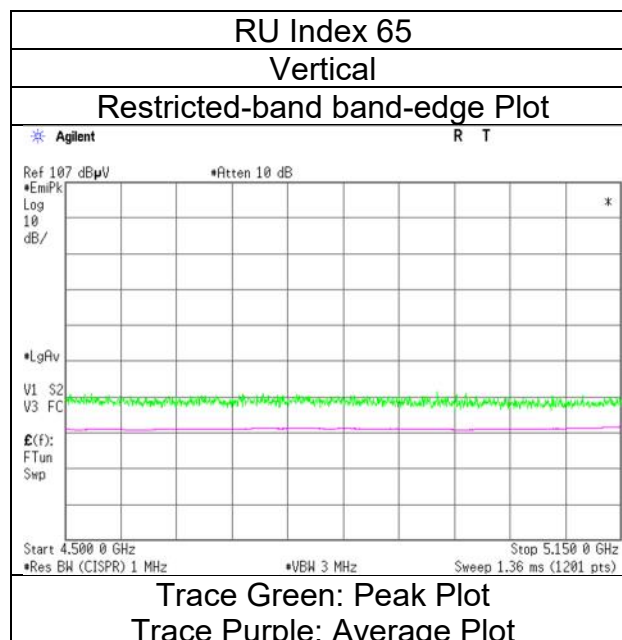
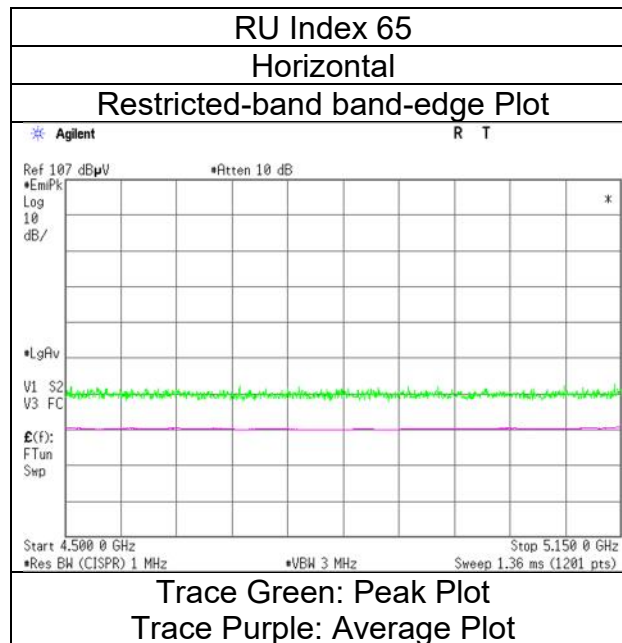
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 21, 2023
23 deg.C, 46 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 484-tone RU, 5190 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 24 deg. C / 53 % RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5310 MHz

RU Index 17

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.98	31.98	16.84	43.30	2.49	58.99	73.9	14.9	157	126	-
Hori.	5350.000	AV	37.38	31.98	16.84	43.30	2.49	45.39	53.9	8.5	157	126	VBW:10 Hz
Vert.	5350.000	PK	50.43	31.98	16.84	43.30	2.49	58.44	73.9	15.4	170	144	-
Vert.	5350.000	AV	37.30	31.98	16.84	43.30	2.49	45.31	53.9	8.5	170	144	VBW:10 Hz

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

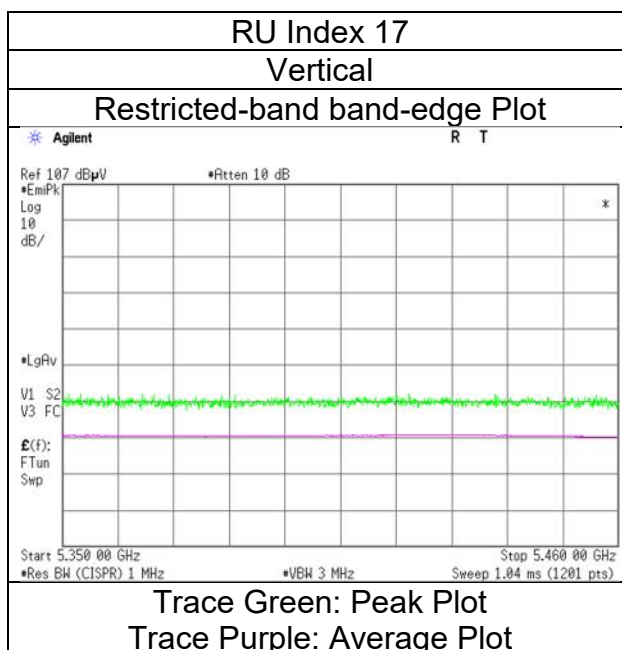
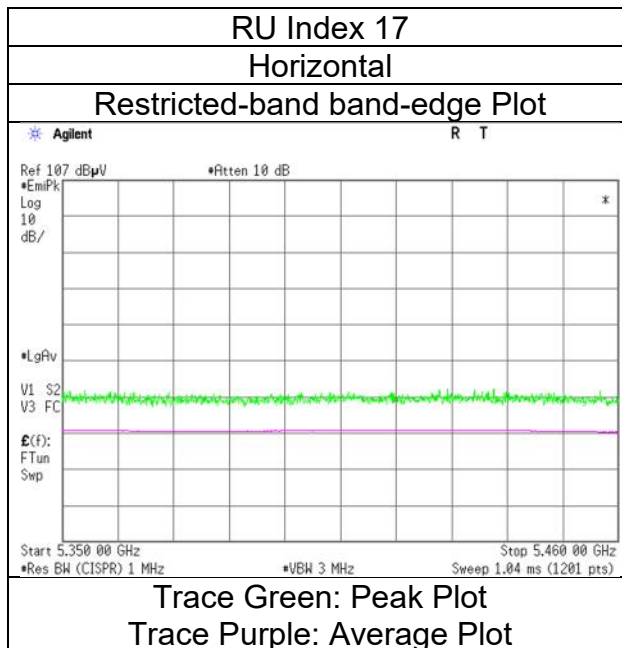
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	October 2, 2023
Temperature / Humidity	24 deg. C / 53 % RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5310 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5310 MHz

RU Index 44

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.55	31.98	16.84	43.30	2.49	58.56	73.9	15.3	152	122	-
Hori.	5350.000	AV	37.24	31.98	16.84	43.30	2.49	45.25	53.9	8.6	152	122	VBW:10 Hz
Vert.	5350.000	PK	50.40	31.98	16.84	43.30	2.49	58.41	73.9	15.4	239	220	-
Vert.	5350.000	AV	37.29	31.98	16.84	43.30	2.49	45.30	53.9	8.6	239	220	VBW:10 Hz

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

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

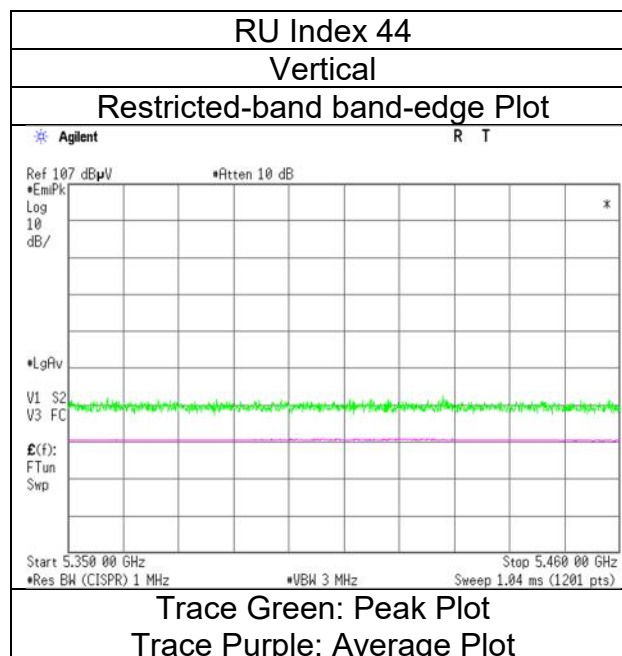
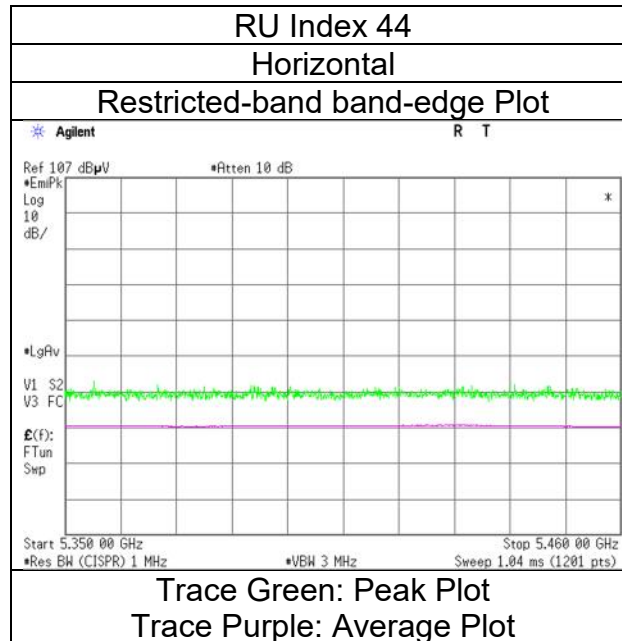
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 52-tone RU, 5310 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5310 MHz

RU Index 56

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.81	31.98	16.84	43.30	2.49	58.82	73.9	15.0	154	123	-
Hori.	5350.000	AV	37.24	31.98	16.84	43.30	2.49	45.25	53.9	8.6	154	123	VBW:10 Hz
Vert.	5350.000	PK	51.50	31.98	16.84	43.30	2.49	59.51	73.9	14.3	279	144	-
Vert.	5350.000	AV	37.35	31.98	16.84	43.30	2.49	45.36	53.9	8.5	279	144	VBW:10 Hz

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

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

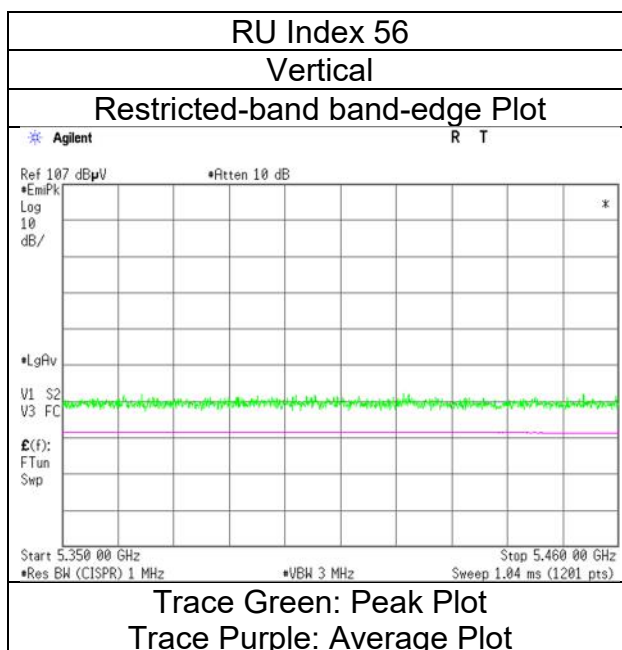
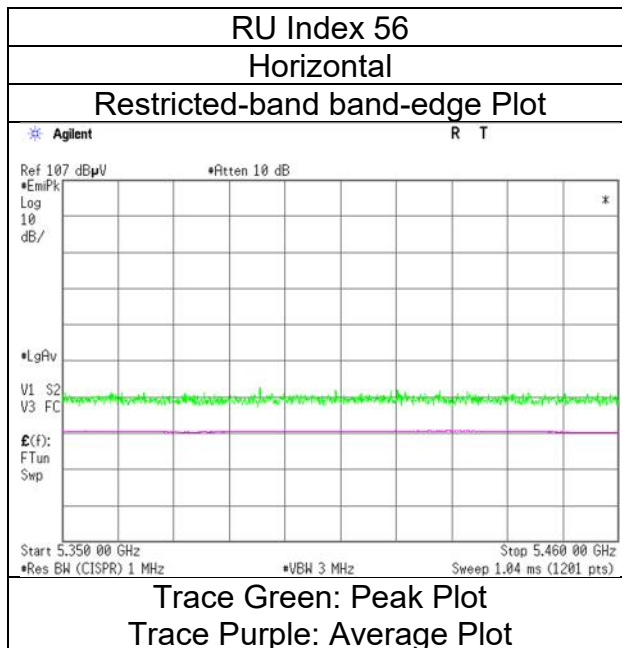
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 106 -tone RU, 5310 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5310 MHz

RU Index 62

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.91	31.98	16.84	43.30	2.49	58.92	73.9	14.9	158	125	-
Hori.	5350.000	AV	37.31	31.98	16.84	43.30	2.49	45.32	53.9	8.5	158	125	VBW:10 Hz
Vert.	5350.000	PK	51.69	31.98	16.84	43.30	2.49	59.70	73.9	14.2	265	141	-
Vert.	5350.000	AV	37.41	31.98	16.84	43.30	2.49	45.42	53.9	8.4	265	141	VBW:10 Hz

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

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

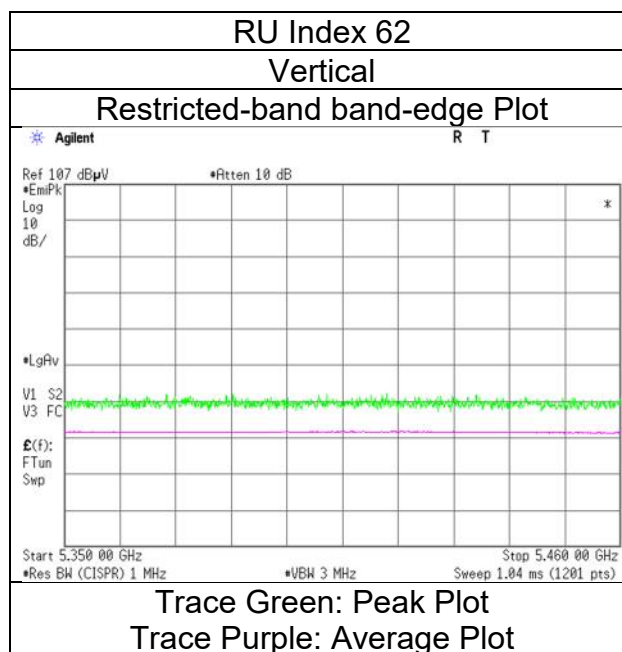
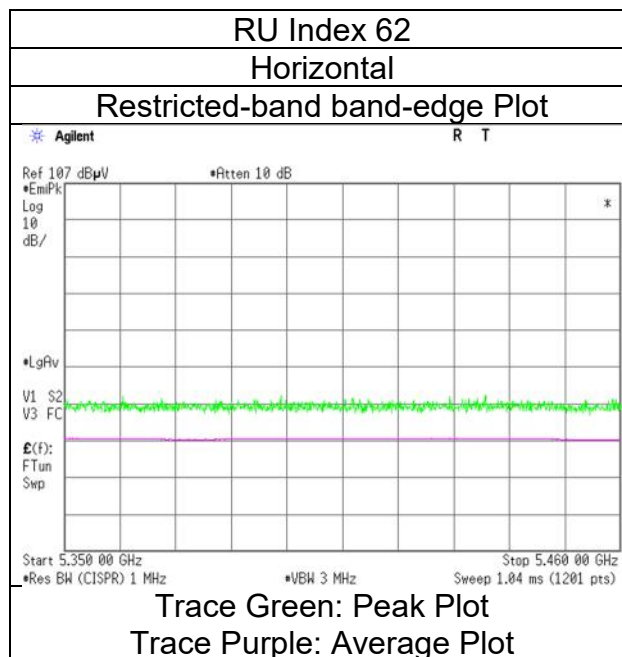
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 242-tone RU, 5310 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 21, 2023
Temperature / Humidity 23 deg.C, 46 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5310 MHz

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.87	31.98	16.84	43.30	2.49	59.88	73.9	14.0	169	122	-
Hori.	5350.000	AV	38.69	31.98	16.84	43.30	2.49	46.70	53.9	7.2	169	122	VBW: 10 Hz
Vert.	5350.000	PK	52.02	31.98	16.84	43.30	2.49	60.03	73.9	13.8	265	137	-
Vert.	5350.000	AV	37.86	31.98	16.84	43.30	2.49	45.87	53.9	8.0	265	137	VBW: 10 Hz

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

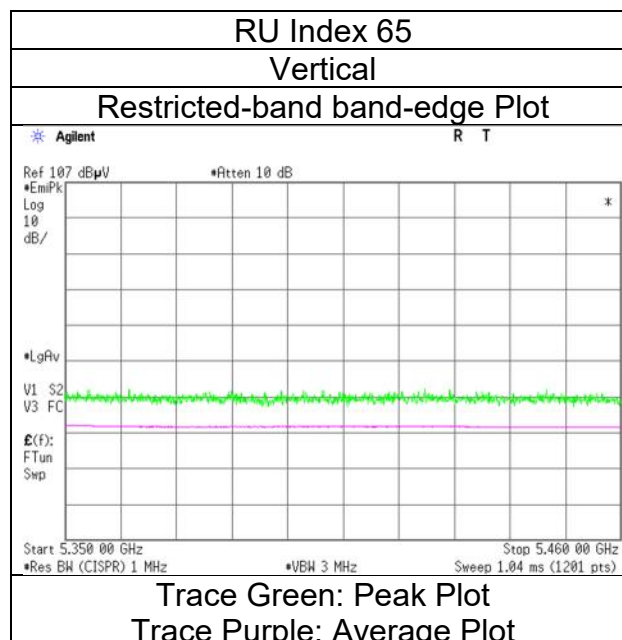
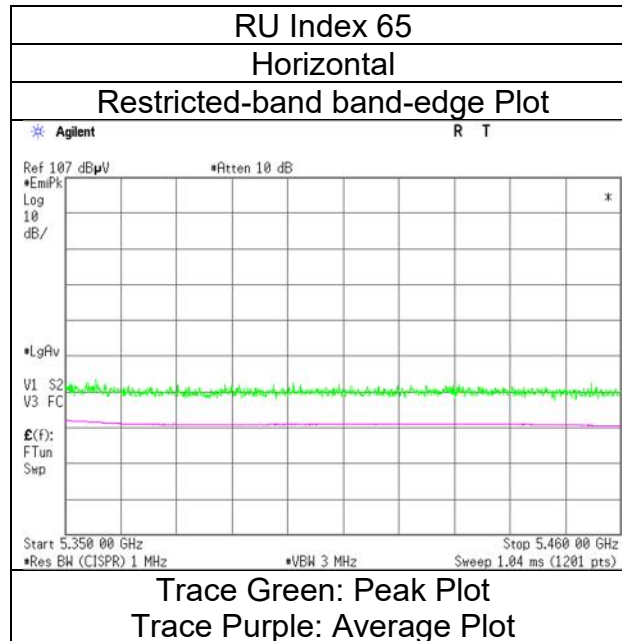
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 21, 2023
Temperature / Humidity	23 deg.C, 46 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 484-tone RU, 5310 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 24 deg. C / 53 % RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5510 MHz

RU Index 0

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.86	32.24	16.91	43.42	2.49	58.08	73.9	15.8	191	95	-
Hori.	5460.000	AV	37.10	32.24	16.91	43.42	2.49	45.32	53.9	8.5	191	95	VBW:10 Hz
Vert.	5460.000	PK	49.85	32.24	16.91	43.42	2.49	58.07	73.9	15.8	129	292	-
Vert.	5460.000	AV	36.93	32.24	16.91	43.42	2.49	45.15	53.9	8.7	129	292	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.65	32.25	16.92	43.44	2.49	57.87	-37.36	-27.0	10.3	191	95	-
Vert.	5470.000	PK	49.84	32.25	16.92	43.44	2.49	58.06	-37.17	-27.0	10.1	129	292	-

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

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

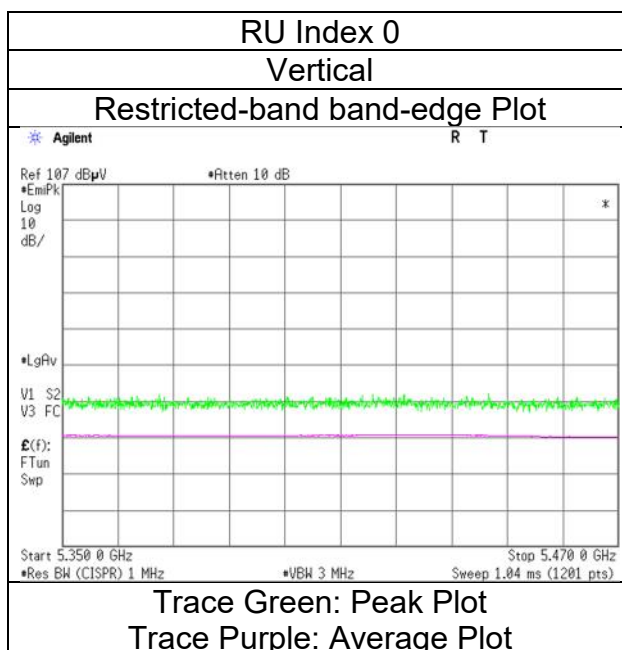
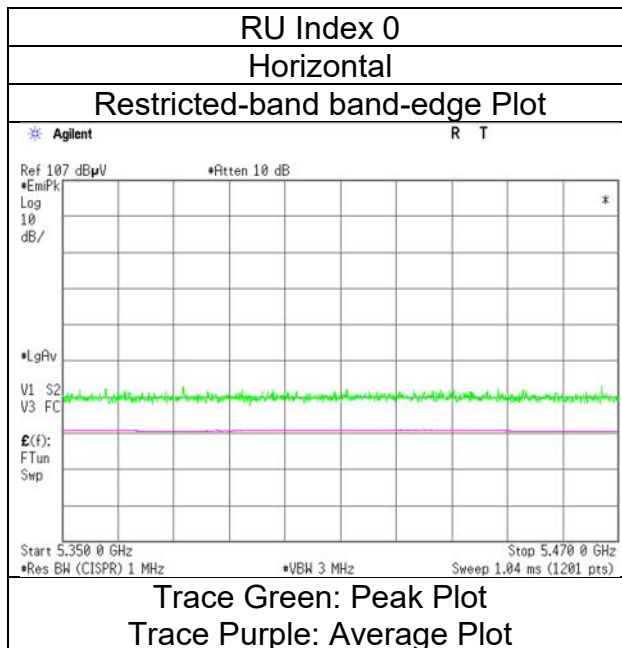
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	October 2, 2023
Temperature / Humidity	24 deg. C / 53 % RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5510 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5510 MHz

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.55	32.24	16.91	43.42	2.49	57.77	73.9	16.1	159	125	-
Hori.	5460.000	AV	36.88	32.24	16.91	43.42	2.49	45.10	53.9	8.8	159	125	VBW:10 Hz
Vert.	5460.000	PK	49.59	32.24	16.91	43.42	2.49	57.81	73.9	16.0	240	235	-
Vert.	5460.000	AV	37.09	32.24	16.91	43.42	2.49	45.31	53.9	8.5	240	235	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.15	32.25	16.92	43.44	2.49	58.37	-36.86	-27.0	9.8	159	125	-
Vert.	5470.000	PK	49.90	32.25	16.92	43.44	2.49	58.12	-37.11	-27.0	10.1	240	235	-

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

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

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

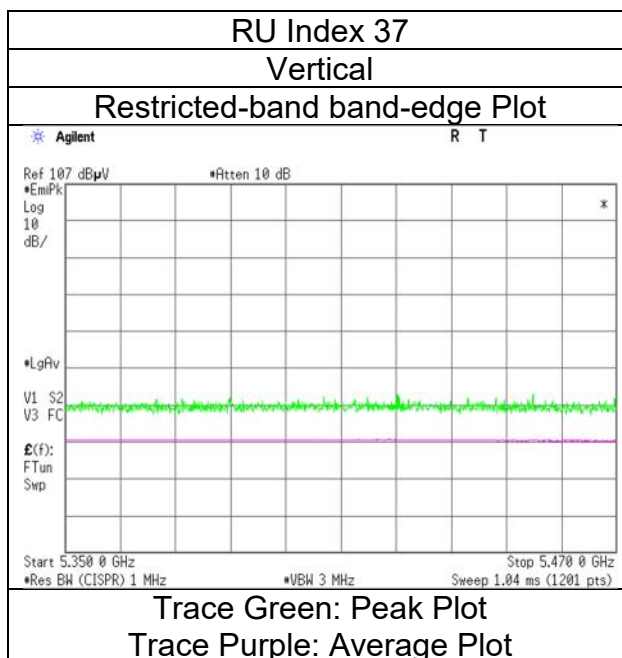
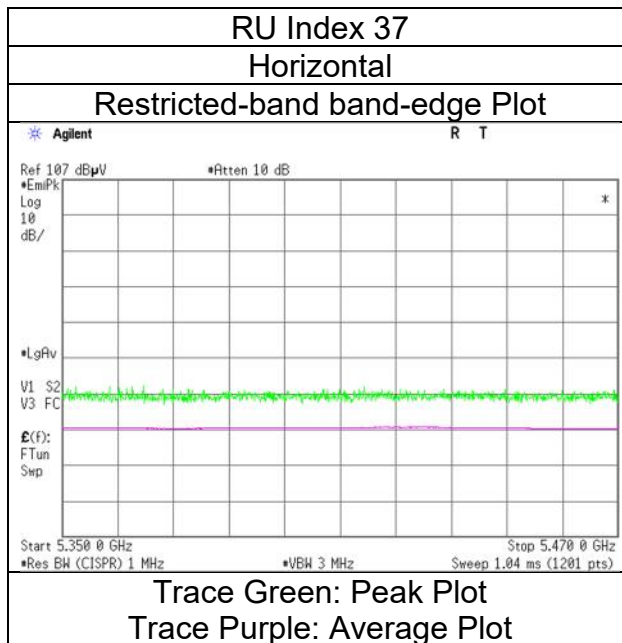
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 52-tone RU, 5510 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5510 MHz

RU Index 53

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.89	32.24	16.91	43.42	2.49	59.11	73.9	14.7	143	127	-
Hori.	5460.000	AV	36.88	32.24	16.91	43.42	2.49	45.10	53.9	8.8	143	127	VBW:10 Hz
Vert.	5460.000	PK	51.34	32.24	16.91	43.42	2.49	59.56	73.9	14.3	231	147	-
Vert.	5460.000	AV	37.14	32.24	16.91	43.42	2.49	45.36	53.9	8.5	231	147	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.25	32.25	16.92	43.44	2.49	59.47	-35.76	-27.0	8.7	143	127	-
Vert.	5470.000	PK	51.41	32.25	16.92	43.44	2.49	59.63	-35.60	-27.0	8.6	231	147	-

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

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

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

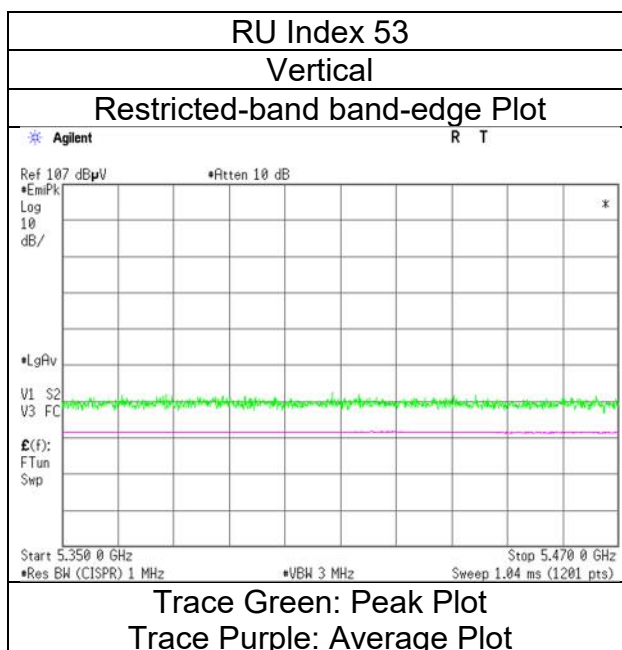
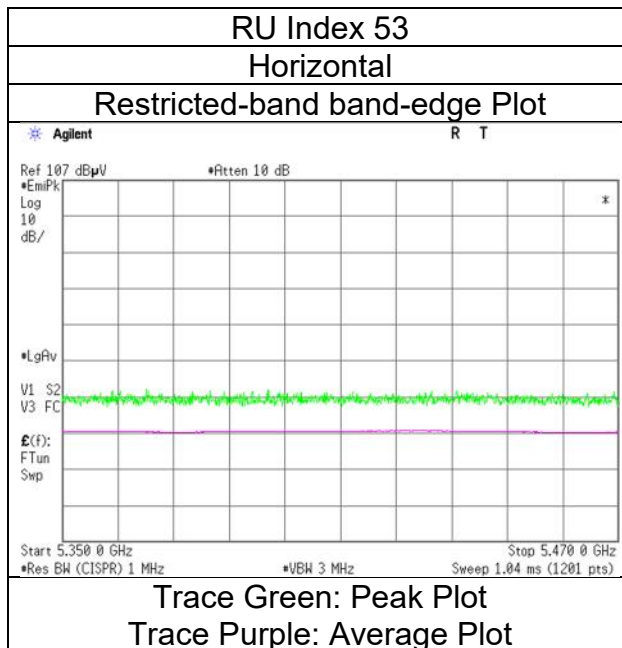
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 106 -tone RU, 5510 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5510 MHz

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.46	32.24	16.91	43.42	2.49	59.68	73.9	14.2	143	128	-
Hori.	5460.000	AV	37.24	32.24	16.91	43.42	2.49	45.46	53.9	8.4	143	128	VBW:10 Hz
Vert.	5460.000	PK	51.43	32.24	16.91	43.42	2.49	59.65	73.9	14.2	226	243	-
Vert.	5460.000	AV	37.33	32.24	16.91	43.42	2.49	45.55	53.9	8.3	226	243	VBW:10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.34	32.25	16.92	43.44	2.49	59.56	-35.67	-27.0	8.6	143	128	-
Vert.	5470.000	PK	51.76	32.25	16.92	43.44	2.49	59.98	-35.25	-27.0	8.2	226	243	-

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

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

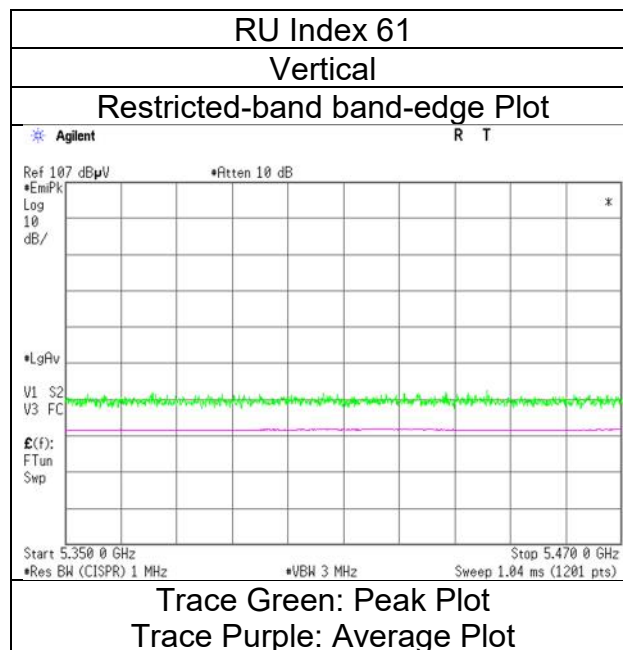
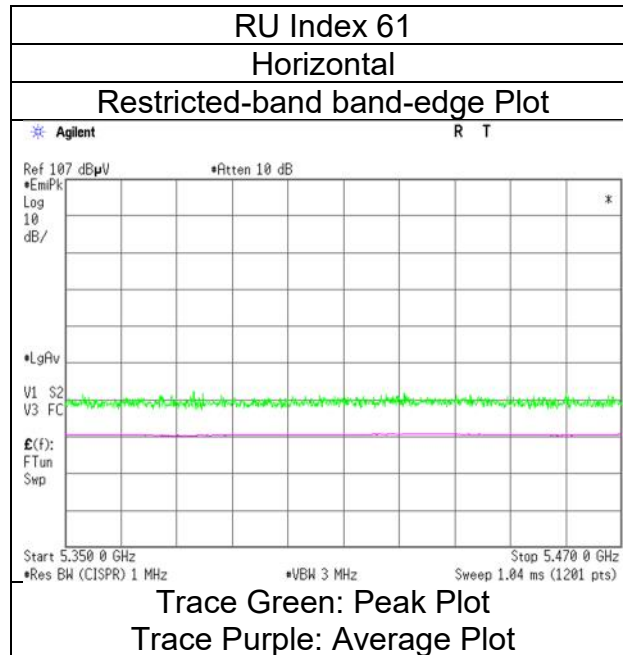
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 242-tone RU, 5510 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 21, 2023
Temperature / Humidity 23 deg.C, 46 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5510 MHz

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.22	32.24	16.91	43.42	2.49	59.44	73.9	14.4	159	126	-
Hori.	5460.000	AV	38.06	32.24	16.91	43.42	2.49	46.28	53.9	7.6	159	126	VBW: 10 Hz
Vert.	5460.000	PK	51.51	32.24	16.91	43.42	2.49	59.73	73.9	14.1	241	243	-
Vert.	5460.000	AV	37.78	32.24	16.91	43.42	2.49	46.00	53.9	7.9	241	243	VBW: 10 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.70	32.25	16.92	43.44	2.49	59.92	-35.31	-27.0	8.3	159	126	-
Vert.	5470.000	PK	51.85	32.25	16.92	43.44	2.49	60.07	-35.16	-27.0	8.1	241	243	-

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

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

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

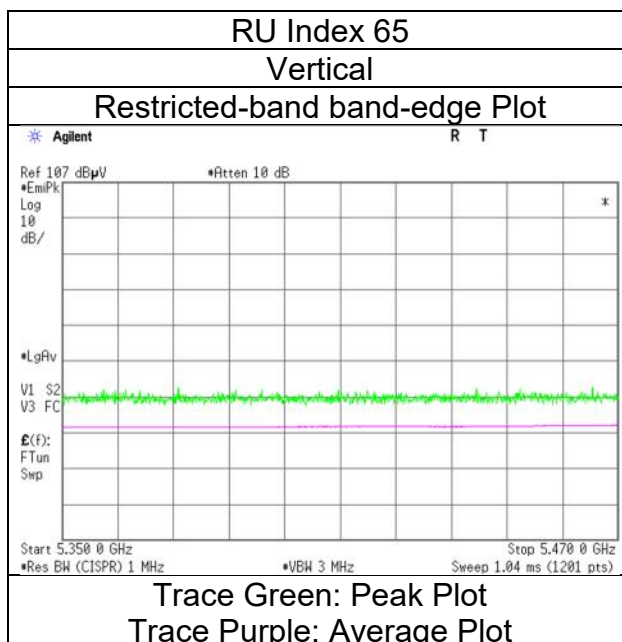
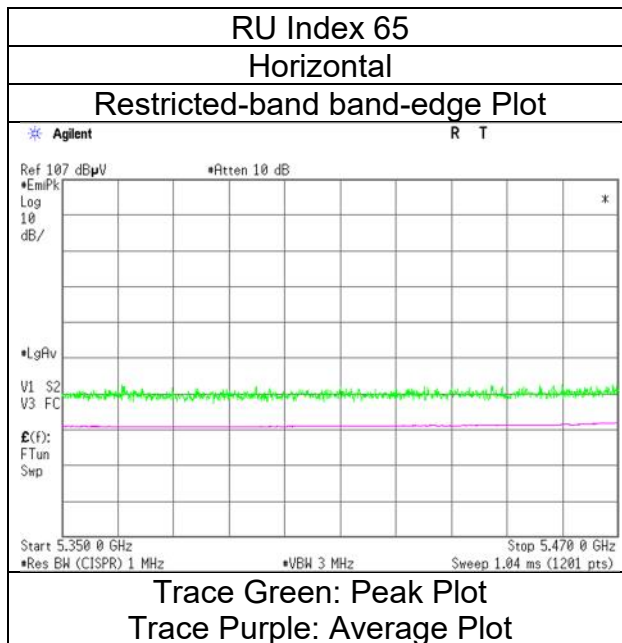
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 21, 2023
23 deg.C, 46 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 484-tone RU, 5510 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 24 deg. C / 53 % RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5670 MHz

RU Index 17

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.62	32.63	17.07	43.42	2.49	59.39	-35.84	-27.0	8.8	212	40	-
Vert.	5725.000	PK	49.92	32.63	17.07	43.42	2.49	58.69	-36.54	-27.0	9.5	165	107	-

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

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

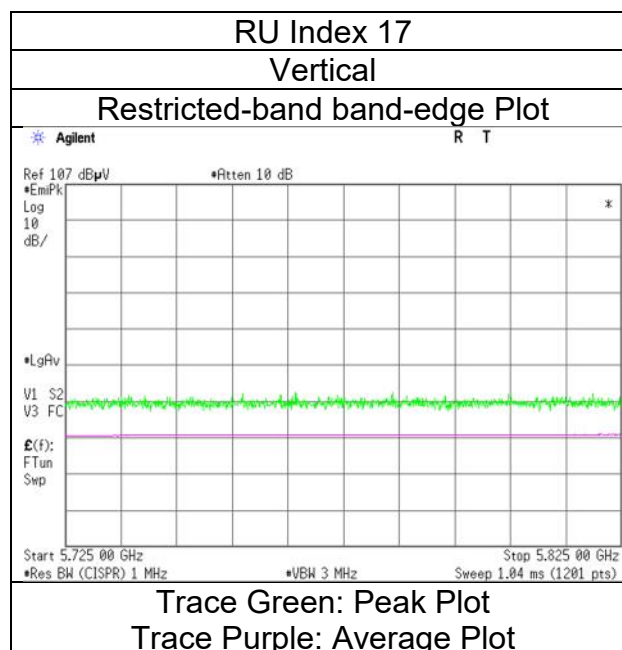
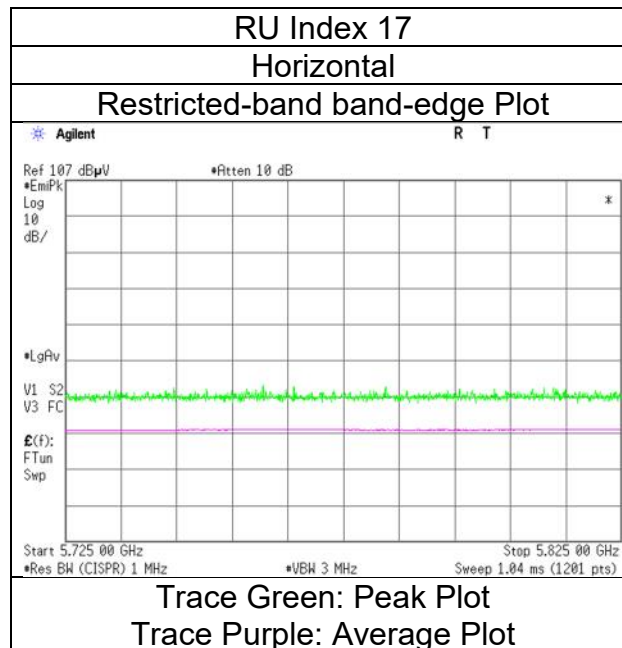
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	October 2, 2023
Temperature / Humidity	24 deg. C / 53 % RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5670 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5670 MHz

RU Index 44

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.93	32.63	17.07	43.42	2.49	58.70	-36.53	-27.0	9.5	129	129	-
Vert.	5725.000	PK	49.69	32.63	17.07	43.42	2.49	58.46	-36.77	-27.0	9.7	228	237	-

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

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

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

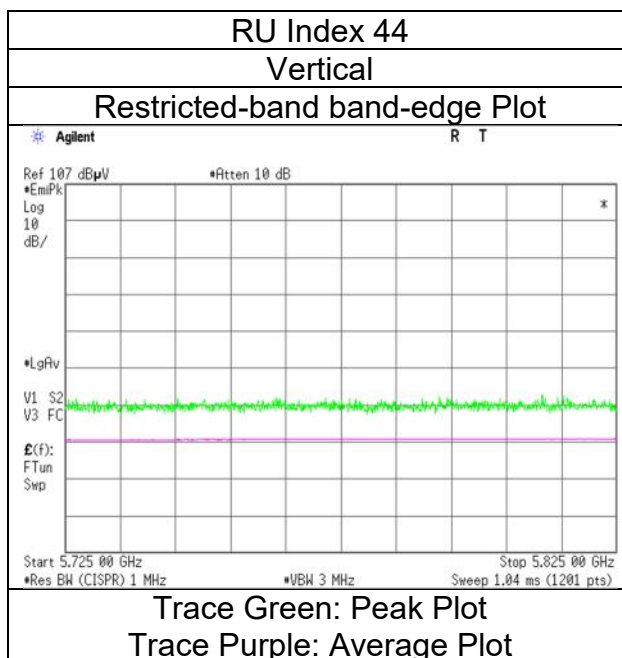
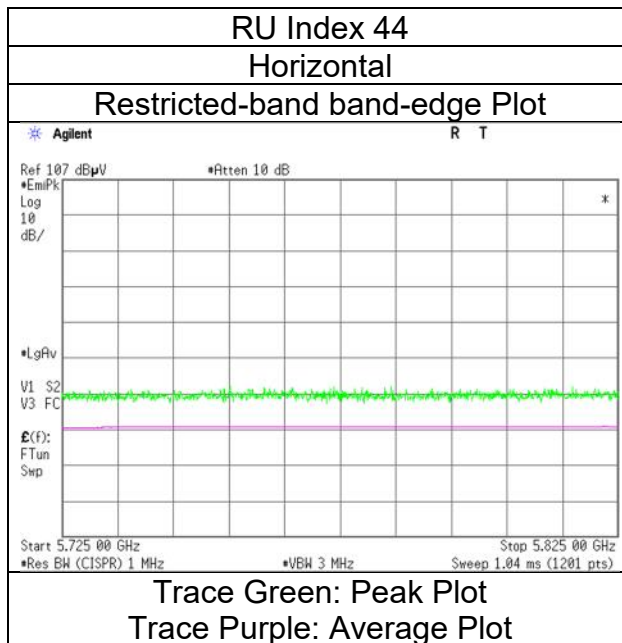
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 52-tone RU, 5670 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5670 MHz

RU Index 56

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	51.31	32.63	17.07	43.42	2.49	60.08	-35.15	-27.0	8.1	135	132	-
Vert.	5725.000	PK	51.77	32.63	17.07	43.42	2.49	60.54	-34.69	-27.0	7.6	227	240	-

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

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

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

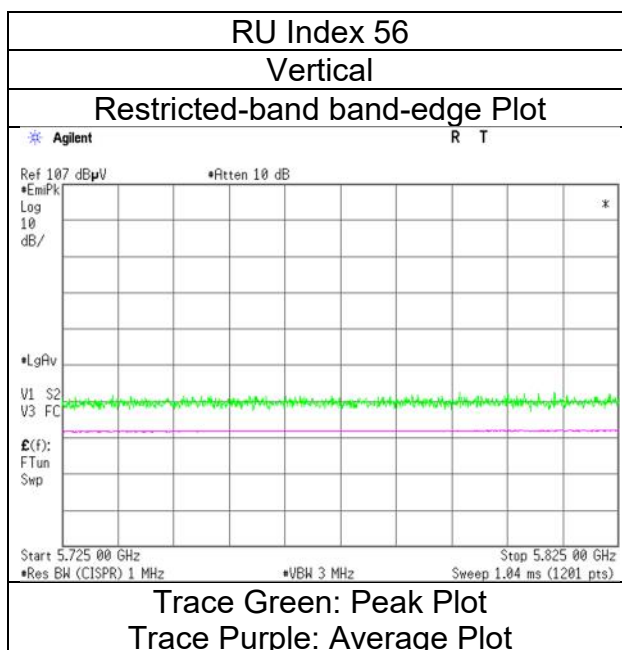
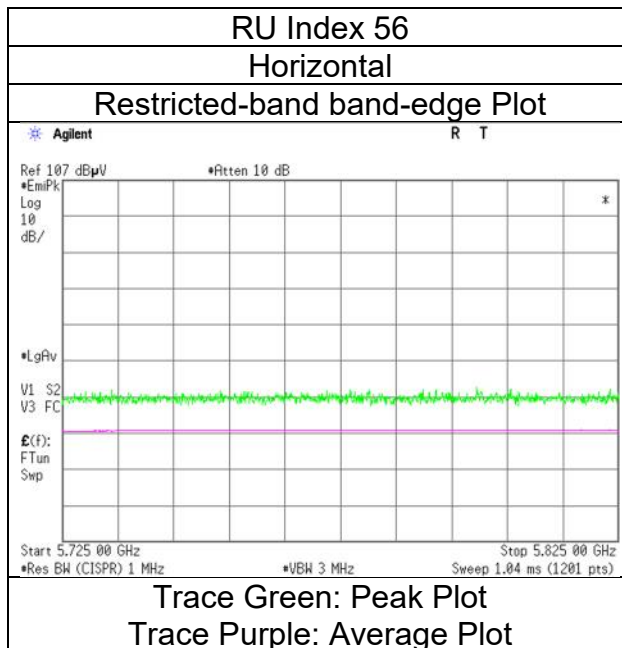
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 20, 2023
22 deg.C, 48 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 106 -tone RU, 5670 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 20, 2023
Temperature / Humidity 22 deg.C, 48 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5670 MHz

RU Index 62

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	51.58	32.63	17.07	43.42	2.49	60.35	-34.88	-27.0	7.8	131	129	-
Vert.	5725.000	PK	51.93	32.63	17.07	43.42	2.49	60.70	-34.53	-27.0	7.5	212	231	-

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

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

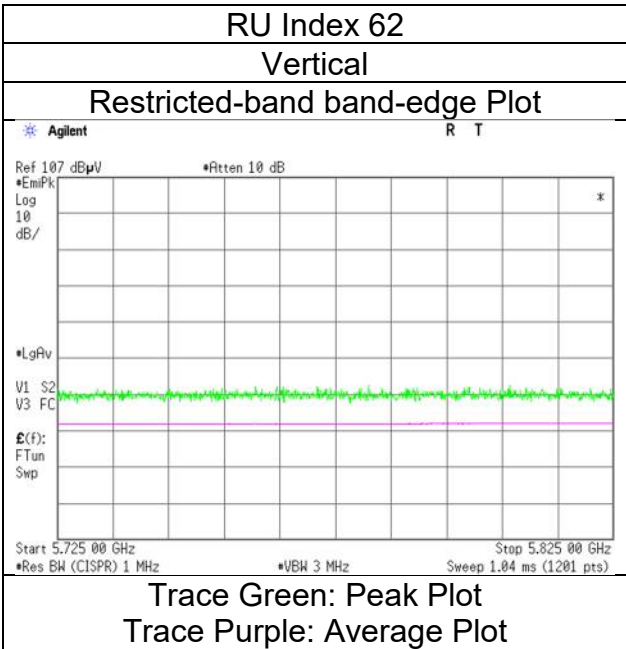
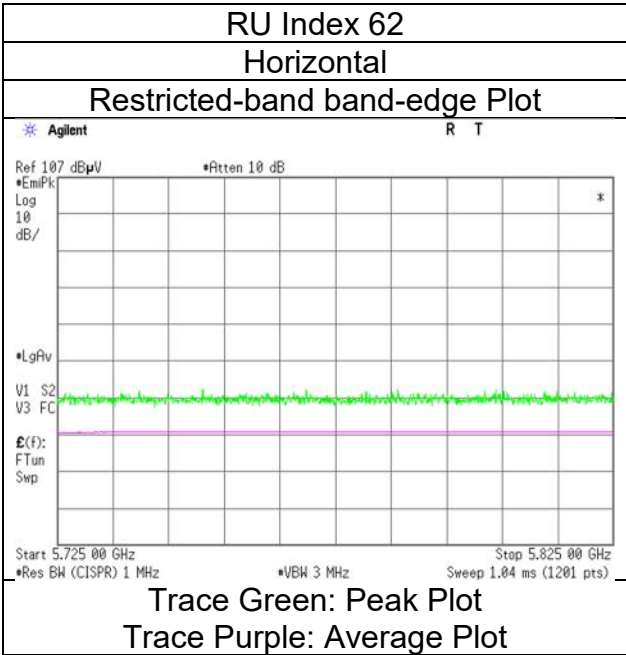
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	September 20, 2023
Temperature / Humidity	22 deg.C, 48 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDMA) 242-tone RU, 5670 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date September 21, 2023
Temperature / Humidity 23 deg.C, 46 %RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5670 MHz

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.86	32.63	17.07	43.42	2.49	59.63	-35.60	-27.0	8.6	151	127	-
Vert.	5725.000	PK	51.86	32.63	17.07	43.42	2.49	60.63	-34.60	-27.0	7.6	241	239	-

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

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

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

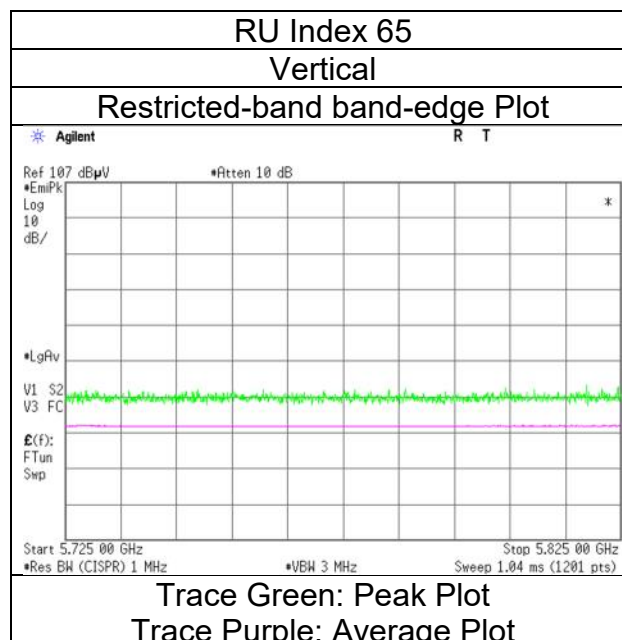
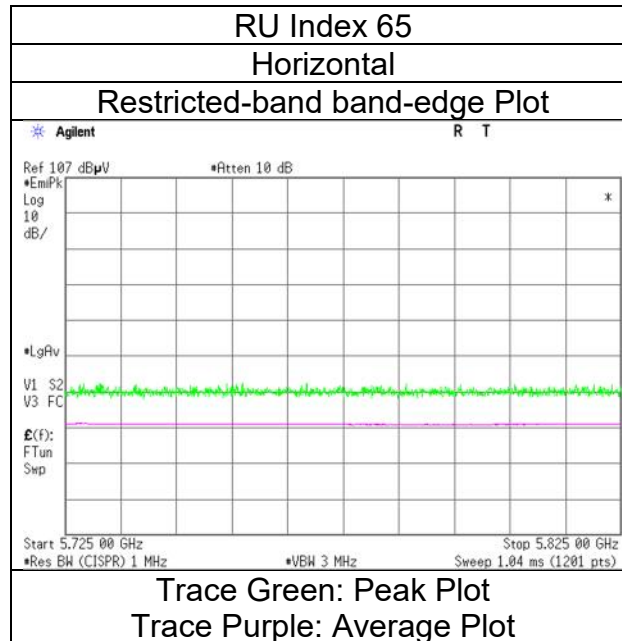
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
September 21, 2023
23 deg.C, 46 %RH
Kouki Yamada
Tx 11ax-40 (OFDMA) 484-tone RU, 5670 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 2, 2023
Temperature / Humidity 24 deg. C / 53 % RH
Engineer Kouki Yamada
 (1 GHz -6.4 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5755 MHz

RU Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.17	32.44	17.03	43.44	2.49	58.69	-36.54	-27.0	9.5	178	109	-
Hori.	5700.000	PK	50.54	32.56	17.05	43.43	2.49	59.21	-36.02	10.0	46.0	178	109	-
Hori.	5720.000	PK	50.51	32.61	17.06	43.42	2.49	59.25	-35.98	15.6	51.5	178	109	-
Hori.	5725.000	PK	50.76	32.63	17.07	43.42	2.49	59.53	-35.70	27.0	62.7	178	109	-
Vert.	5650.000	PK	49.81	32.44	17.03	43.44	2.49	58.33	-36.90	-27.0	9.9	178	101	-
Vert.	5700.000	PK	49.78	32.56	17.05	43.43	2.49	58.45	-36.78	10.0	46.7	178	101	-
Vert.	5720.000	PK	49.97	32.61	17.06	43.42	2.49	58.71	-36.52	15.6	52.1	178	101	-
Vert.	5725.000	PK	49.99	32.63	17.07	43.42	2.49	58.76	-36.47	27.0	63.4	178	101	-

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

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

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

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

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