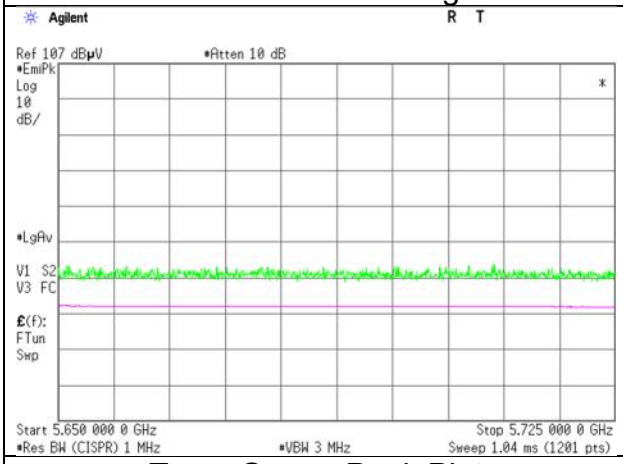
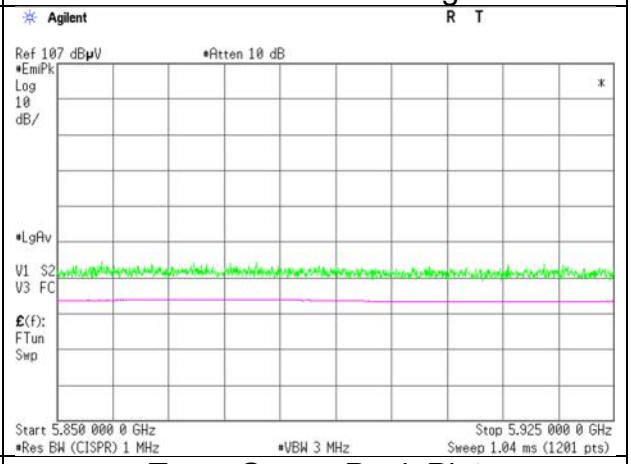
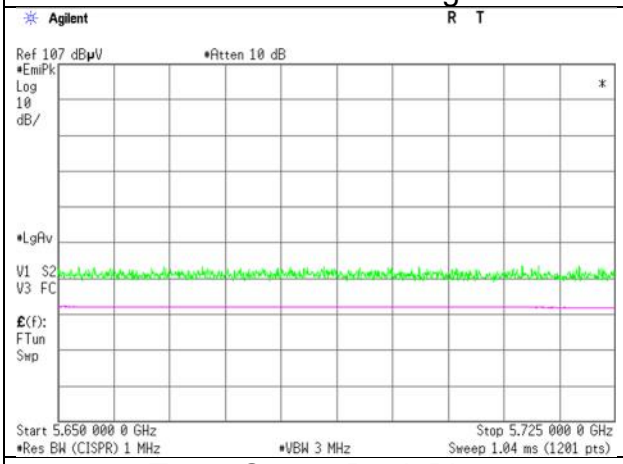
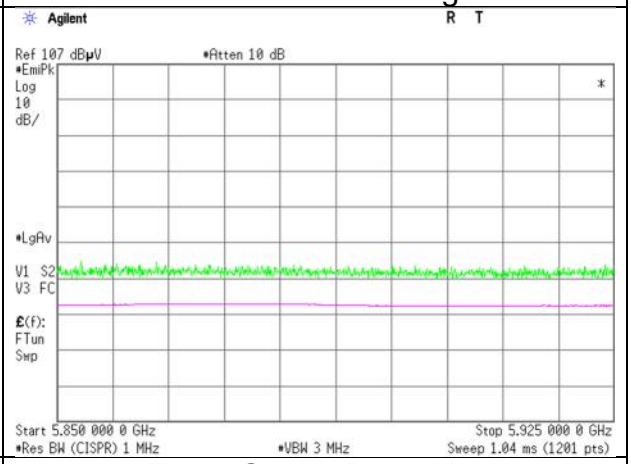
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5775 MHz With 2M-PHY BT LE 2440 MHz

RU Index 53	RU Index 60
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 53	RU Index 60
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
	(1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5775 MHz With 2M-PHY BT LE 2440 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	50.49	32.44	16.94	44.40	2.49	57.96	-37.27	-27.0	**10.2**	204	123	-
Hori.	5700.000	PK	50.76	32.56	16.96	44.35	2.49	58.42	-36.81	10.0	46.8	204	123	-
Hori.	5720.000	PK	50.45	32.61	16.97	44.33	2.49	58.19	-37.04	15.6	52.6	204	123	-
Hori.	5725.000	PK	50.25	32.63	16.97	44.33	2.49	58.01	-37.22	27.0	64.2	204	123	-
Vert.	5650.000	PK	49.78	32.44	16.94	44.40	2.49	57.25	-37.98	-27.0	10.9	218	243	-
Vert.	5700.000	PK	50.36	32.56	16.96	44.35	2.49	58.02	-37.21	10.0	47.2	218	243	-
Vert.	5720.000	PK	51.18	32.61	16.97	44.33	2.49	58.92	-36.31	15.6	51.9	218	243	-
Vert.	5725.000	PK	49.90	32.63	16.97	44.33	2.49	57.66	-37.57	27.0	64.5	218	243	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

RU Index 64

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

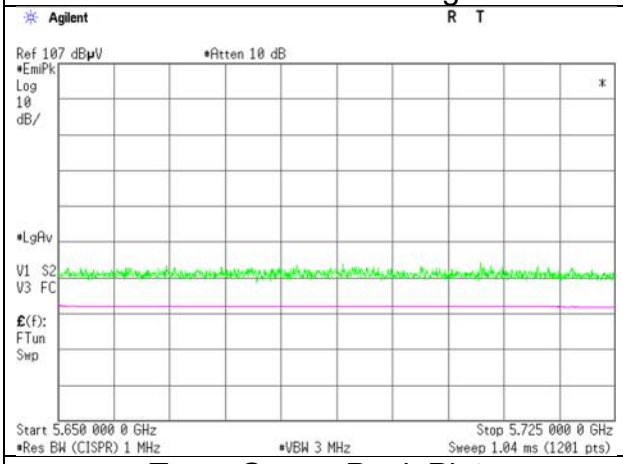
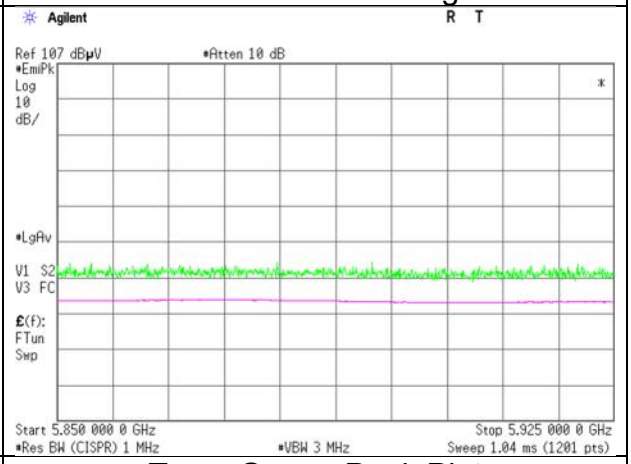
(* PK: Peak, AV: Average, QP: Quasi-Peak)

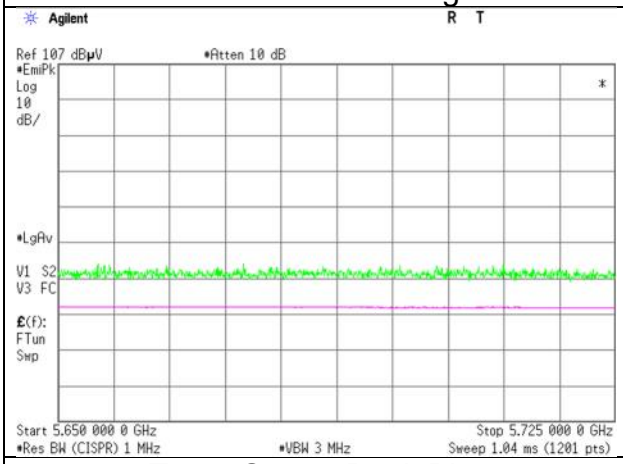
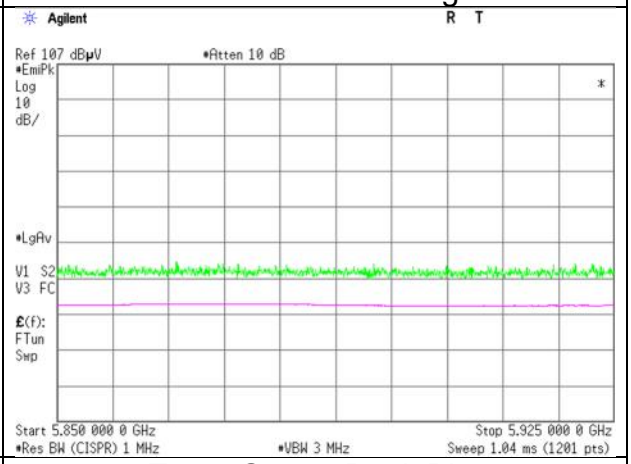
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	52.83	32.94	17.05	44.26	2.49	61.05	-34.18	27.0	61.1	190	125	-
Hori.	5855.000	PK	51.56	32.95	17.05	44.26	2.49	59.79	-35.44	15.6	51.0	190	125	-
Hori.	5875.000	PK	52.06	32.98	17.08	44.26	2.49	60.35	-34.88	10.0	44.8	190	125	-
Hori.	5925.000	PK	50.70	33.06	17.10	44.27	2.49	59.08	-36.15	-27.0	**9.1**	190	125	-
Vert.	5850.000	PK	50.75	32.94	17.05	44.26	2.49	58.97	-36.26	27.0	63.2	222	212	-
Vert.	5855.000	PK	50.71	32.95	17.05	44.26	2.49	58.94	-36.29	15.6	51.8	222	212	-
Vert.	5875.000	PK	50.69	32.98	17.08	44.26	2.49	58.98	-36.25	10.0	46.2	222	212	-
Vert.	5925.000	PK	49.92	33.06	17.10	44.27	2.49	58.30	-36.93	-27.0	9.9	222	212	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5775 MHz With 2M-PHY BT LE 2440 MHz

RU Index 61	RU Index 64
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 61	RU Index 64
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5775 MHz With 2M-PHY BT LE 2440 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.	5650.000	PK	50.74	32.44	16.94	44.40	2.49	58.21	-37.02	-27.0	**10.0**	151	124	-
Hori.	5700.000	PK	51.17	32.56	16.96	44.35	2.49	58.83	-36.40	10.0	46.4	151	124	-
Hori.	5720.000	PK	51.09	32.61	16.97	44.33	2.49	58.83	-36.40	15.6	52.0	151	124	-
Hori.	5725.000	PK	50.76	32.63	16.97	44.33	2.49	58.52	-36.71	27.0	63.7	151	124	-
Vert.	5650.000	PK	50.35	32.44	16.94	44.40	2.49	57.82	-37.41	-27.0	10.4	205	239	-
Vert.	5700.000	PK	49.90	32.56	16.96	44.35	2.49	57.56	-37.67	10.0	47.6	205	239	-
Vert.	5720.000	PK	50.32	32.61	16.97	44.33	2.49	58.06	-37.17	15.6	52.7	205	239	-
Vert.	5725.000	PK	49.48	32.63	16.97	44.33	2.49	57.24	-37.99	27.0	64.9	205	239	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

RU Index 66

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

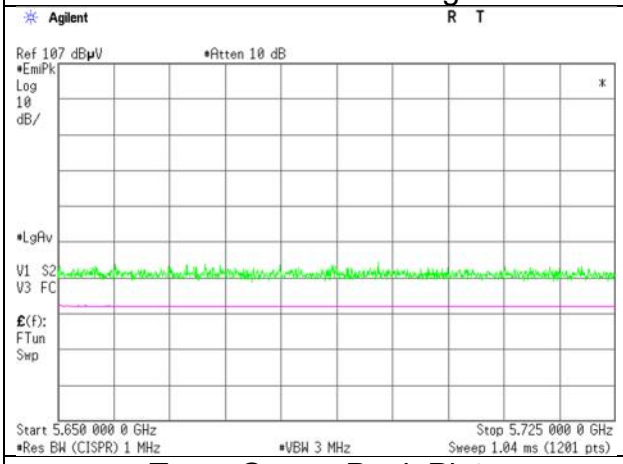
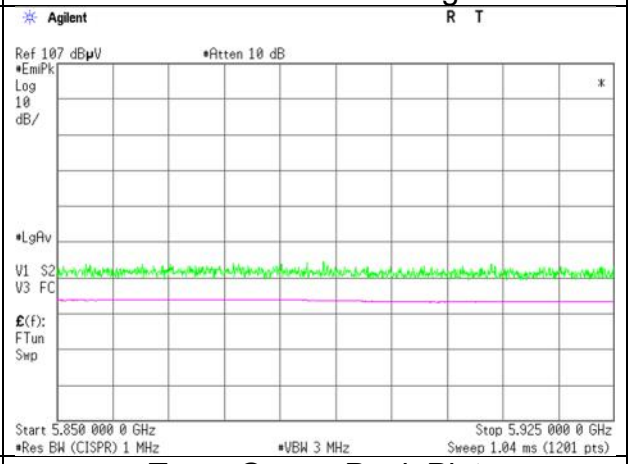
(* PK: Peak, AV: Average, QP: Quasi-Peak)

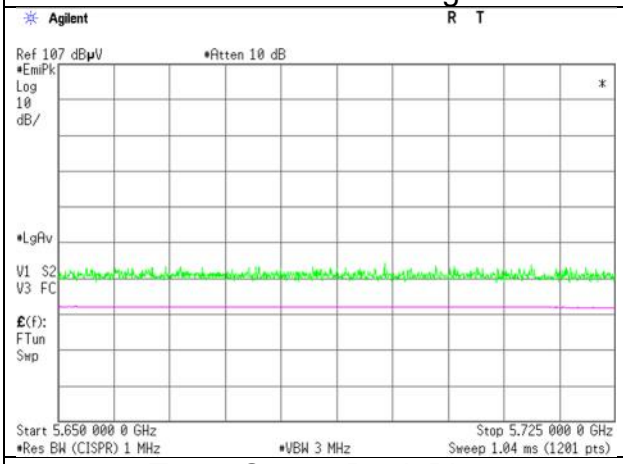
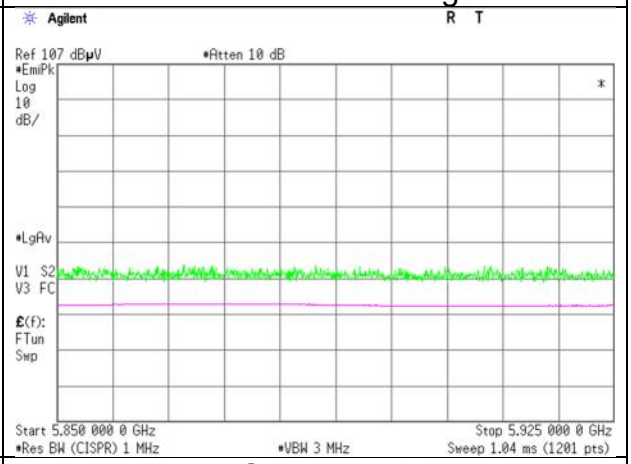
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	52.07	32.94	17.05	44.26	2.49	60.29	-34.94	27.0	61.9	224	121	-
Hori.	5855.000	PK	52.03	32.95	17.05	44.26	2.49	60.26	-34.97	15.6	50.5	224	121	-
Hori.	5875.000	PK	52.09	32.98	17.08	44.26	2.49	60.38	-34.85	10.0	44.8	224	121	-
Hori.	5925.000	PK	52.28	33.06	17.10	44.27	2.49	60.66	-34.57	-27.0	**7.5**	224	121	-
Vert.	5850.000	PK	51.02	32.94	17.05	44.26	2.49	59.24	-35.99	27.0	62.9	226	233	-
Vert.	5855.000	PK	50.76	32.95	17.05	44.26	2.49	58.99	-36.24	15.6	51.8	226	233	-
Vert.	5875.000	PK	51.07	32.98	17.08	44.26	2.49	59.36	-35.87	10.0	45.8	226	233	-
Vert.	5925.000	PK	50.76	33.06	17.10	44.27	2.49	59.14	-36.09	-27.0	9.0	226	233	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5775 MHz With 2M-PHY BT LE 2440 MHz

RU Index 65	RU Index 66
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 65	RU Index 66
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5775 MHz With 2M-PHY BT LE 2440 MHz

RU Index 67

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

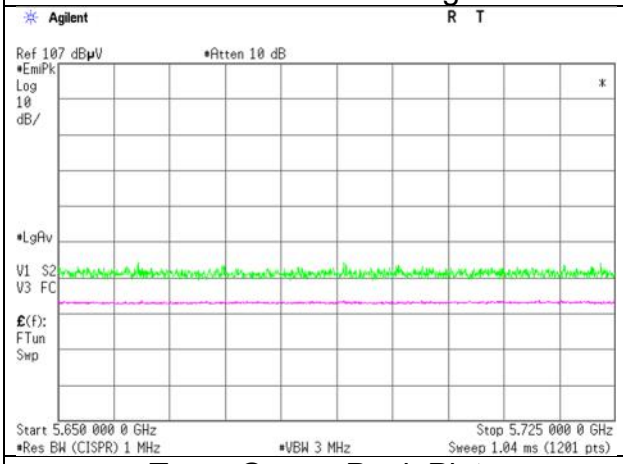
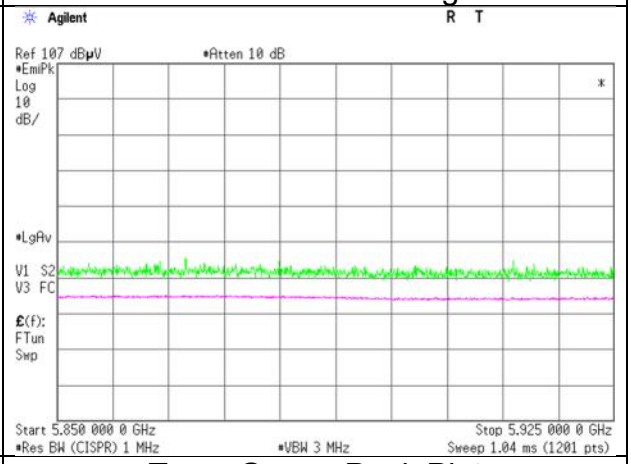
(* PK: Peak, AV: Average, QP: Quasi-Peak)

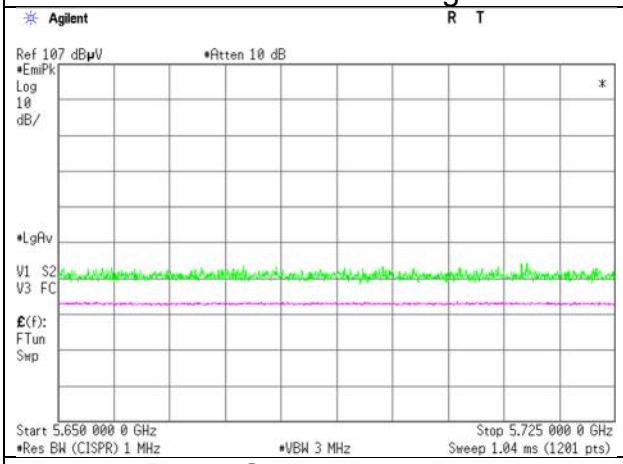
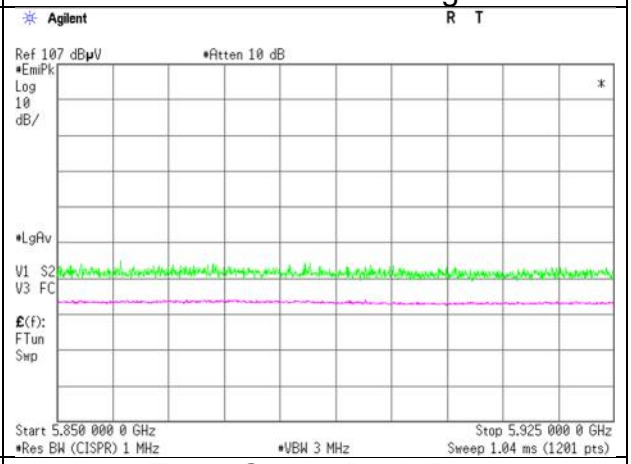
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	52.06	32.44	16.94	44.40	2.49	59.53	-35.70	-27.0	8.7	182	122	-
Hori.	5700.000	PK	51.93	32.56	16.96	44.35	2.49	59.59	-35.64	10.0	45.6	182	122	-
Hori.	5720.000	PK	52.08	32.61	16.97	44.33	2.49	59.82	-35.41	15.6	51.0	182	122	-
Hori.	5725.000	PK	52.09	32.63	16.97	44.33	2.49	59.85	-35.38	27.0	62.3	182	122	-
Hori.	5850.000	PK	52.06	32.94	17.05	44.26	2.49	60.28	-34.95	27.0	61.9	182	122	-
Hori.	5855.000	PK	52.40	32.95	17.05	44.26	2.49	60.63	-34.60	15.6	50.2	182	122	-
Hori.	5875.000	PK	52.28	32.98	17.08	44.26	2.49	60.57	-34.66	10.0	44.6	182	122	-
Hori.	5925.000	PK	51.64	33.06	17.10	44.27	2.49	60.02	-35.21	-27.0	**8.2**	182	122	-
Vert.	5650.000	PK	50.95	32.44	16.94	44.40	2.49	58.42	-36.81	-27.0	9.8	219	232	-
Vert.	5700.000	PK	50.64	32.56	16.96	44.35	2.49	58.30	-36.93	10.0	46.9	219	232	-
Vert.	5720.000	PK	50.32	32.61	16.97	44.33	2.49	58.06	-37.17	15.6	52.7	219	232	-
Vert.	5725.000	PK	49.49	32.63	16.97	44.33	2.49	57.25	-37.98	27.0	64.9	219	232	-
Vert.	5850.000	PK	50.41	32.94	17.05	44.26	2.49	58.63	-36.60	27.0	63.6	219	232	-
Vert.	5855.000	PK	50.93	32.95	17.05	44.26	2.49	59.16	-36.07	15.6	51.6	219	232	-
Vert.	5875.000	PK	51.30	32.98	17.08	44.26	2.49	59.59	-35.64	10.0	45.6	219	232	-
Vert.	5925.000	PK	50.28	33.06	17.10	44.27	2.49	58.66	-36.57	-27.0	9.5	219	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	January 11, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5775 MHz With 2M-PHY BT LE 2440 MHz

RU Index 67	RU Index 67
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

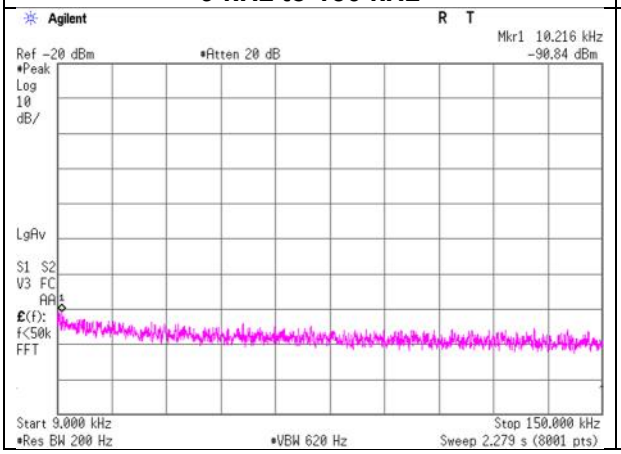
RU Index 67	RU Index 67
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

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

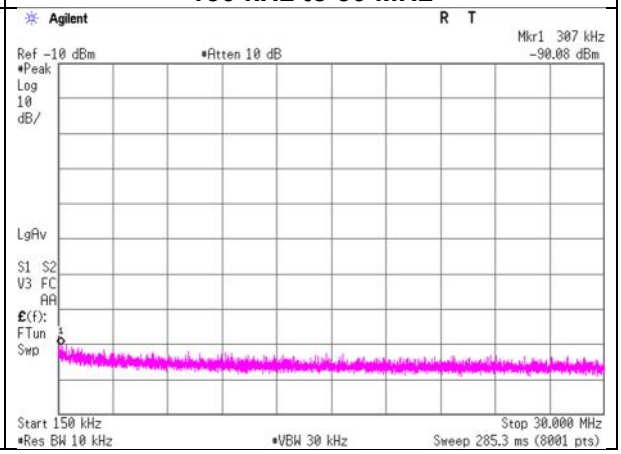
Conducted Spurious Emission

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	May 15, 2024
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Hiromasa Sato
Mode	Tx 11ax-40 (OFDM), 5510 MHz worst antenna port (ANT1)

9 kHz to 150 kHz



150 kHz to 30 MHz



FREQ [kHz]	Reading [dBm]	Cable Loss [dB]	Anttenuator Loss [dB]	Antenna Gain	N (Number of output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field Strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
10.22	-90.84	0.10	9.97	3.53	2.0	-74.2	300	6.0	-13.0	47.4	60.4	–
307.00	-90.08	0.11	9.97	3.53	2.0	-73.5	300	6.0	-12.2	17.8	30.0	–

E [dBuV/m] = EIRP [dBm] - 20 x log (Distance [m]) + Ground bounce [dB] + 104.8 [dBuV/m]
EIRP [dBm] = Reading [dBm] + Cable Loss [dB] + Attenuator Loss [dB] + Antenna Gain [dBi] + 10 x log (N)
N: Number of output port

APPENDIX 2: Test Instruments

Test Equipment (1/3)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	145095	Digital Tester	SANWA	PC500	7019224	2023/05/25	12
AT	145111	Digital Tester	SANWA	PC500	7019232	2023/09/25	12
AT	145763	Terminator	TME	CT-01 BP	-	2023/12/08	12
AT	146207	Terminator	JFW	50T-128	-	2023/11/22	12
AT	146247	Power Meter	Keysight Technologies Inc	8990B	MY51000272	2023/05/29	12
AT	146268	Power Meter	Raditeq (Formerly DARE!! Instruments)	RPR3006W	15I00041SNO73	2023/05/30	12
AT	146310	Power sensor	Keysight Technologies Inc	N1923A	MY5326009	2023/05/29	12
AT	146311	Power sensor	Keysight Technologies Inc	N1923A	MY5349008	2023/05/29	12
AT	169910	Power Meter	Keysight Technologies Inc	8990B	MY51000448	2023/09/28	12
AT	169911	Power sensor	Keysight Technologies Inc	N1923A	MY57270004	2023/09/28	12
AT	169912	Power sensor	Keysight Technologies Inc	N1923A	MY57290005	2023/09/28	12
AT	171614	Terminator	Weinschel - API Technologies Corp	M1459A	88995	2023/05/11	12
AT	175823	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/01	12
AT	179108	Coaxial Cable	Junkosha	MWX241-03000KMSKMS/B	1901Q033-R	2024/04/09	12
AT	179109	Coaxial Cable	Junkosha	MWX241-03000KMSKMS/B	1901Q034-R	2024/04/09	12
AT	191846	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/07	12
AT	204925	Attenuator	Weinschel Corp.	54A-10	109970	2024/02/14	12
AT	240499	Spectrum Analyzer	Keysight Technologies Inc	N9020B	MY59050557	2023/10/21	12
AT	146212	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997828	2023/09/25	12
AT	191845	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/07	12
AT	236410	Spectrum Analyzer	Keysight Technologies Inc	N9030B	MY63050151	2024/04/26	12
AT,RE	145800	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250106	2024/03/25	12
AT,RE	145801	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250152	2024/02/27	12
AT,RE	204926	Attenuator	Weinschel Corp.	54A-10	109971	2024/02/14	12
AT,RE	235604	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY45300743	2023/05/18	12
CE	144960	Attenuator	JFW	50HF-003N	-	2023/08/22	12
CE	145036	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS4906	-/0901-271(RF Selector)	2024/04/01	12
CE	145542	LISN	Rohde & Schwarz	ENV216	100516	2024/02/06	12
CE,RE	146209	Test Receiver	Rohde & Schwarz	ESU26	100484	2023/09/22	12
CE,RE	146210	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997823	2023/09/25	12
CE,RE	146432	Tape Measure	TAJIMA	GL19-55	-	-	-
CE,RE	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	Ver 3.1.0546	-	-
RE	144892	Attenuator	Keysight Technologies Inc	8490D 010	6036	2023/10/12	12
RE	144942	Horn Antenna	ETS-Lindgren (Cedar Park, Texas)	3160-10	00047525	2023/05/22	12
RE	145005	Pre Amplifier	Toyo Corporation	TPA0118-36	2046104	2024/02/16	12
RE	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2024/03/05	12
RE	145023	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	BBA9106	91032666	2024/05/10	12

Test Equipment (2/3)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	145039	Coaxial Cable	Junkosha	J12J102207-00	APR-30-15-037	2023/01/12	12 *1)
RE	145126	Pre Amplifier	SONOMA	310N	290213	2024/02/07	12
RE	145127	Pre Amplifier	Toyo Corporation	TPA0118-36	2072554	2023/05/11	12
RE	145128	Pre Amplifier	Toyo Corporation	TPA0118-36	1440490	2023/05/19	12
RE	145129	Pre Amplifier	Toyo Corporation	HAP26-40W	B3208602403-176	2024/05/09	12
RE	145136	Attenuator	Keysight Technologies Inc	8493C-010	74864	2023/10/12	12
RE	145137	Attenuator	Keysight Technologies Inc	8493C-010	74865	2023/10/11	12
RE	145171	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271(RF Selector)	2024/04/01	12
RE	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2023/08/23	12
RE	145305	Highpass Filter	Micro-Tronics	HPM50111	119	2024/03/05	12
RE	145377	Highpass Filter	Micro-Tronics	HPM50112	28	2023/10/11	12
RE	145383	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	9120D-725	2024/03/04	12
RE	145384	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	9120D-726	2024/03/11	12
RE	145501	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	9120D-739	2024/03/20	12
RE	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2023/06/12	12
RE	145514	Horn Antenna	ETS-Lindgren	3160-10	00092383	2023/06/12	12
RE	145529	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	196	2024/05/10	12
RE	145561	Semi-Anechoic Chamber	TDK	SAEC-01(SVSWR)	1	2023/05/16	12
RE	145565	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	2024/04/03	12
RE	145566	Semi-Anechoic Chamber	TDK	SAEC-03(SVSWR)	3	2023/05/14	12
RE	145598	Semi-Anechoic Chamber	TDK	SAEC-02(SVSWR)	2	2023/05/17	12
RE	145792	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997812	2023/09/25	12
RE	145793	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997819	2023/05/26	12
RE	146105	Antenna Tilt Jig	Intelligent System Engineering Co., Ltd	Antenna Tilt Jig	T-S003	-	-
RE	146351	Horn Antenna	EMCO	3160-09	1278	2023/05/22	12
RE	150461	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46186392	2023/05/02	12
RE	150463	Test Receiver	Rohde & Schwarz	ESW44	101581	2023/08/25	12
RE	151617	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	1612S006	2023/01/12	12 *1)
RE	156380	Coaxial Cable	Huber+Suhner	SUCOFLEX_104_E	SN MY 13406/4E	2023/05/19	12
RE	160899	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46185516	2023/12/29	12
RE	166491	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	1612S005	2024/01/10	12
RE	167094	Attenuator	JFW	50HF-006N	-	2024/02/13	12
RE	168300	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	800375/4A	2022/11/10	12 *1)
RE	175396	Pre Amplifier	Erzia Technologies S.L.	ERZ-LNA-0100-2700-45-4	16A2001702003	2023/06/13	12
RE	178573	Coaxial Cable	Huber+Suhner	SUCOFLEX_104_E	MY13407/4E	2024/03/05	12
RE	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2024/03/05	12

Test Equipment (3/3)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	191837	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/03	12
RE	191838	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/03	12
RE	191840	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/03	12
RE	194685	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	711	2024/03/20	12
RE	200010	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	575618/4	2023/06/06	12
RE	207277	Measuring	ASKUL	-	-	-	-
RE	207279	Tape Measure	ASKUL	-	-	-	-
RE	236869	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	200084/4A	2023/06/06	12
RE	239643	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	2306S021	2023/08/22	12

***Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.**

The expiration date of the calibration is the end of the expired month.
As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

The expiration*1) This test equipment was used for the tests before the expiration date of the calibration.
All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

CE: Conducted Emission
RE: Radiated Emission
AT: Antenna Terminal Conducted test