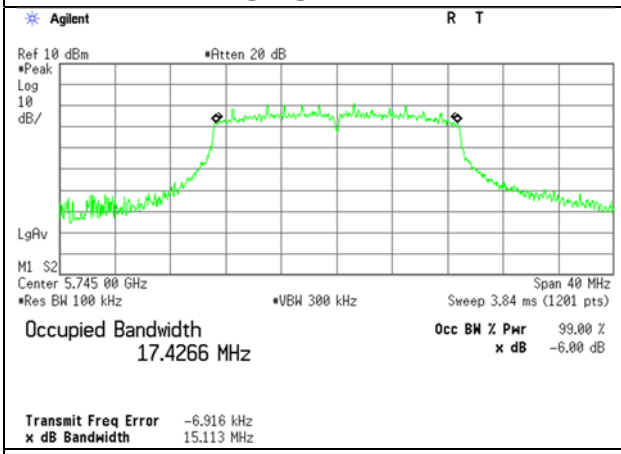
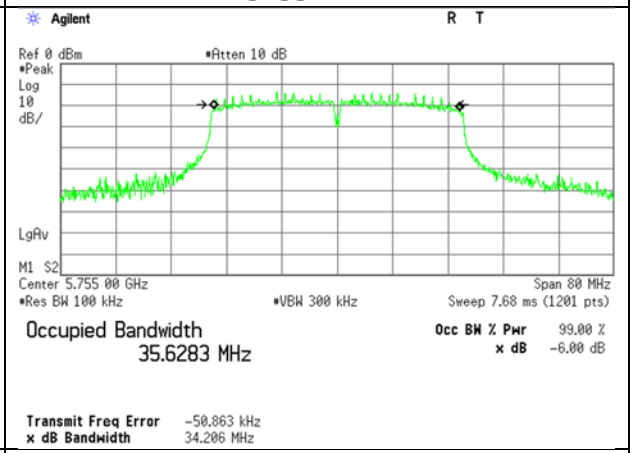
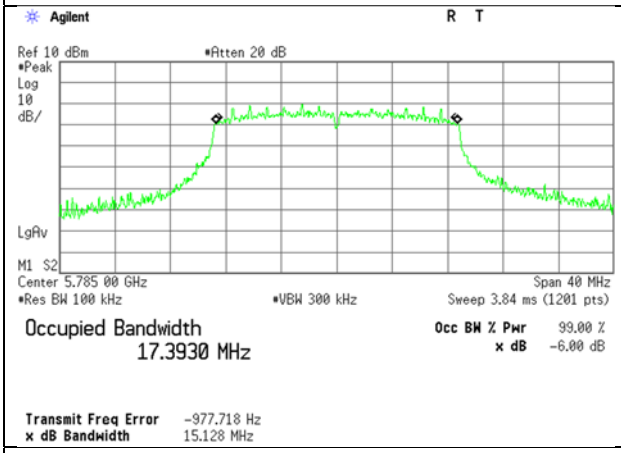
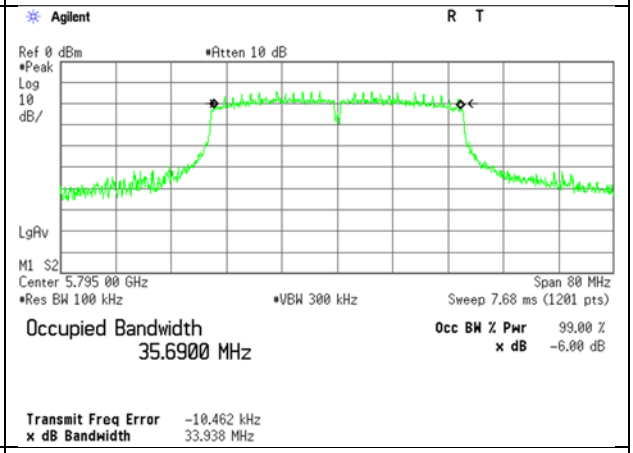
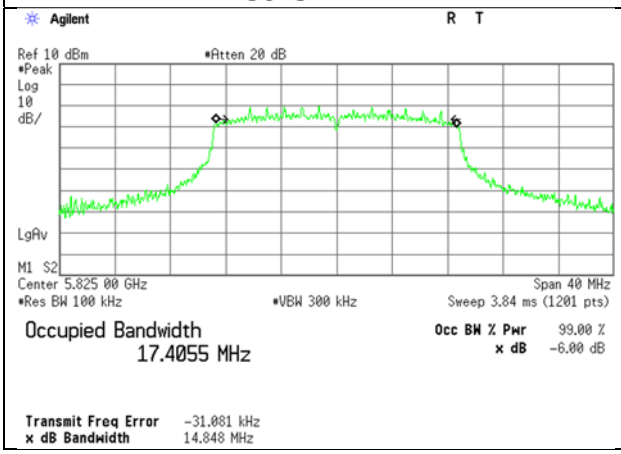
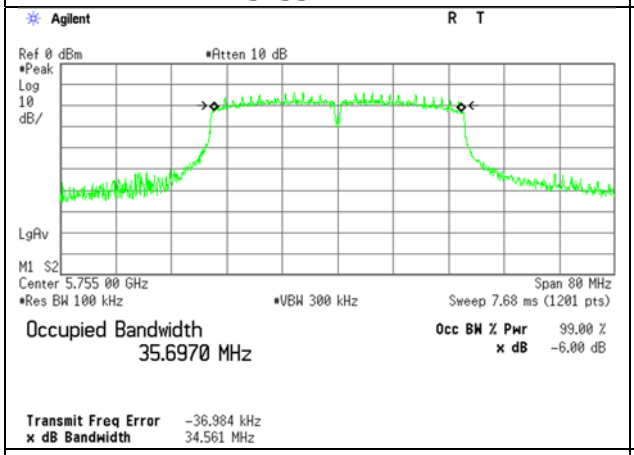
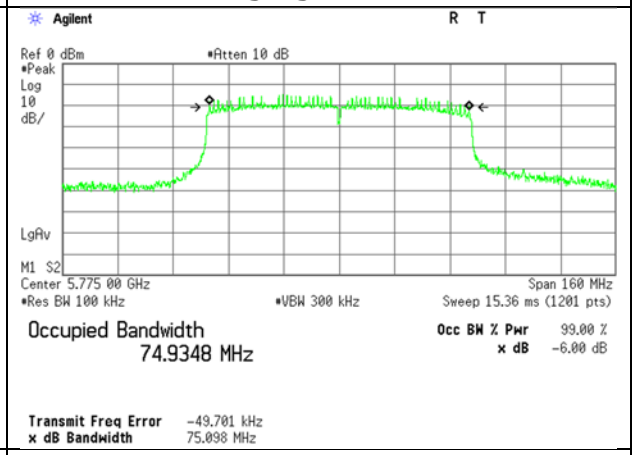
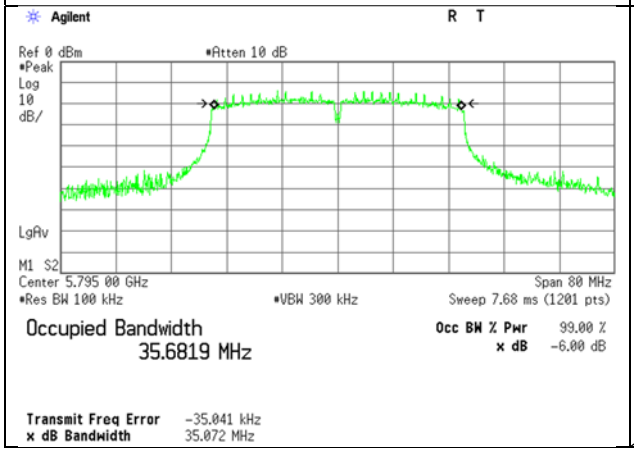
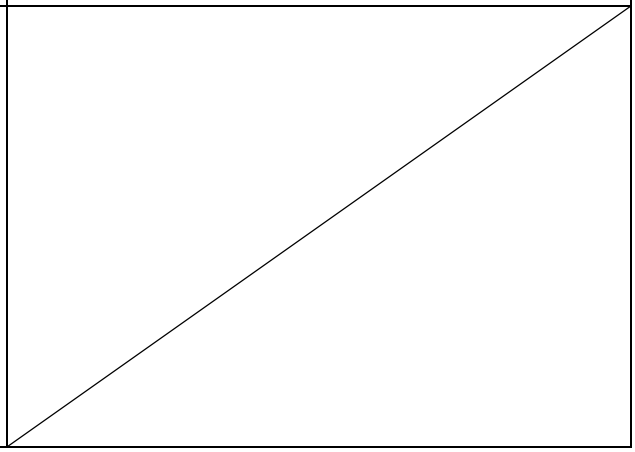
6 dB Bandwidth

11ac-20	11n-40
5745 MHz	**5755 MHz**
	
5785 MHz	**5795 MHz**
	
5825 MHz	
	

6 dB Bandwidth

11ac-40	11ac-80
5755 MHz	5775 MHz
	
5795 MHz	
	

Maximum Conducted Output Power

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	October 20, 2020
Temperature / Humidity	19 deg. C / 61 % RH
Engineer	Akihiko Maeda
Mode	Tx 11a

11a Applied limit: 15.407, mobile and portable client device

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted Power				e.i.r.p.			
								Result		Limit	Margin	Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-1.08	1.50	10.16	0.65	3.0	-	16.402	11.23	13.27	23.97	12.74	14.23	26.49	29.97	15.74
5200	-0.02	1.50	10.16	0.65	3.0	-	16.410	12.29	16.94	23.97	11.68	15.29	33.81	29.97	14.68
5240	-0.30	1.50	10.16	0.65	3.0	-	16.410	12.01	15.89	23.97	11.96	15.01	31.70	29.97	14.96
5260	-0.41	1.50	10.16	0.65	3.0	18.498	16.419	11.90	15.49	23.67	11.77	14.90	30.90	29.97	15.07
5300	0.21	1.50	10.17	0.65	3.0	18.987	16.432	12.53	17.91	23.78	11.25	15.53	35.73	29.97	14.44
5320	-1.35	1.50	10.17	0.65	3.0	18.594	16.420	10.97	12.50	23.69	12.72	13.97	24.95	29.97	16.00
5500	-1.65	1.50	10.19	0.65	3.0	18.309	16.411	10.69	11.72	23.62	12.93	13.69	23.39	29.97	16.28
5580	-1.44	1.50	10.18	0.65	3.0	18.491	16.459	10.89	12.27	23.66	12.77	13.89	24.49	29.97	16.08
5680	-1.42	1.50	10.17	0.65	3.0	18.987	16.409	10.90	12.30	23.78	12.88	13.90	24.55	29.97	16.07
5700	-1.34	1.50	10.17	0.65	3.0	18.560	16.459	10.98	12.53	23.68	12.70	13.98	25.00	29.97	15.99
5720	-1.56	1.50	10.17	0.65	3.0	18.385	16.408	10.76	11.91	23.64	12.88	13.76	23.77	29.97	16.21
5745	-0.52	1.50	10.16	0.65	3.0	-	16.392	11.79	15.10	30.00	18.21	14.79	30.13	36.00	21.21
5785	-0.91	1.50	10.16	0.65	3.0	-	16.377	11.40	13.80	30.00	18.60	14.40	27.54	36.00	21.60
5825	-0.82	1.50	10.16	0.65	3.0	-	16.392	11.49	14.09	30.00	18.51	14.49	28.12	36.00	21.51

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

Maximum Conducted Output Power

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	October 20, 2020
Temperature / Humidity	19 deg. C / 61 % RH
Engineer	Akihiko Maeda
Mode	Tx 11n-20

11n-20 Applied limit: 15.407, mobile and portable client device

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted Power				e.i.r.p.			
								Result		Limit	Margin	Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-1.02	1.50	10.16	0.98	3.0	-	17.478	11.62	14.52	23.97	12.35	14.62	28.97	29.97	15.35
5200	0.91	1.50	10.16	0.98	3.0	-	17.514	13.55	22.65	23.97	10.42	16.55	45.19	29.97	13.42
5240	0.65	1.50	10.16	0.98	3.0	-	17.508	13.29	21.33	23.97	10.68	16.29	42.56	29.97	13.68
5260	0.62	1.50	10.16	0.98	3.0	19.406	17.489	13.26	21.18	23.87	10.61	16.26	42.27	29.97	13.71
5300	1.20	1.50	10.17	0.98	3.0	19.619	17.487	13.85	24.27	23.92	10.07	16.85	48.42	29.97	13.12
5320	-1.39	1.50	10.17	0.98	3.0	19.225	17.521	11.26	13.37	23.83	12.57	14.26	26.67	29.97	15.71
5500	-1.86	1.50	10.19	0.98	3.0	19.448	17.448	10.81	12.05	23.88	13.07	13.81	24.04	29.97	16.16
5580	-1.49	1.50	10.18	0.98	3.0	19.117	17.435	11.17	13.09	23.81	12.64	14.17	26.12	29.97	15.80
5680	-1.43	1.50	10.17	0.98	3.0	19.102	17.447	11.22	13.24	23.81	12.59	14.22	26.42	29.97	15.75
5700	-1.27	1.50	10.17	0.98	3.0	19.788	17.521	11.38	13.74	23.96	12.58	14.38	27.42	29.97	15.59
5720	-1.47	1.50	10.17	0.98	3.0	19.269	17.520	11.18	13.12	23.84	12.66	14.18	26.18	29.97	15.79
5745	-0.53	1.50	10.16	0.98	3.0	-	17.482	12.11	16.26	30.00	17.89	15.11	32.43	36.00	20.89
5785	-0.76	1.50	10.16	0.98	3.0	-	17.492	11.88	15.42	30.00	18.12	14.88	30.76	36.00	21.12
5825	-0.82	1.50	10.16	0.98	3.0	-	17.480	11.82	15.21	30.00	18.18	14.82	30.34	36.00	21.18

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

Maximum Conducted Output Power

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	October 20, 2020
Temperature / Humidity	19 deg. C / 61 % RH
Engineer	Akihiko Maeda
Mode	Tx 11ac-20

11ac-20 Applied limit: 15.407, mobile and portable client device

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-0.92	1.50	10.16	1.03	3.0	-	17.475	11.77	15.03	23.97	12.20	14.77	29.99	29.97	15.20
5200	0.97	1.50	10.16	1.03	3.0	-	17.568	13.66	23.23	23.97	10.31	16.66	46.34	29.97	13.31
5240	0.79	1.50	10.16	1.03	3.0	-	17.515	13.48	22.28	23.97	10.49	16.48	44.46	29.97	13.49
5260	0.72	1.50	10.16	1.03	3.0	19.289	17.485	13.41	21.93	23.85	10.44	16.41	43.75	29.97	13.56
5300	1.35	1.50	10.17	1.03	3.0	19.255	17.530	14.05	25.41	23.84	9.79	17.05	50.70	29.97	12.92
5320	-1.23	1.50	10.17	1.03	3.0	19.420	17.450	11.47	14.03	23.88	12.41	14.47	27.99	29.97	15.50
5500	-1.75	1.50	10.19	1.03	3.0	20.164	17.474	10.97	12.50	23.97	13.00	13.97	24.95	29.97	16.00
5580	-1.31	1.50	10.18	1.03	3.0	19.250	17.470	11.40	13.80	23.84	12.44	14.40	27.54	29.97	15.57
5680	-1.36	1.50	10.17	1.03	3.0	19.206	17.477	11.34	13.61	23.83	12.49	14.34	27.16	29.97	15.63
5700	-1.19	1.50	10.17	1.03	3.0	19.066	17.481	11.51	14.16	23.80	12.29	14.51	28.25	29.97	15.46
5720	-1.42	1.50	10.17	1.03	3.0	19.266	17.493	11.28	13.43	23.84	12.56	14.28	26.79	29.97	15.69
5745	-0.44	1.50	10.16	1.03	3.0	-	17.479	12.25	16.79	30.00	17.75	15.25	33.50	36.00	20.75
5785	-0.67	1.50	10.16	1.03	3.0	-	17.507	12.02	15.92	30.00	17.98	15.02	31.77	36.00	20.98
5825	-0.74	1.50	10.16	1.03	3.0	-	17.487	11.95	15.67	30.00	18.05	14.95	31.26	36.00	21.05

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Maximum Conducted Output Power

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 20, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 61 % RH	25 deg. C / 39 % RH
Engineer	Akihiko Maeda	Takafumi Noguchi
Mode	Tx 11n-40	

11n-40

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-3.09	1.50	10.16	1.67	3.0	-	35.851	10.24	10.57	23.97	13.73	13.24	21.09	29.97	16.73
5230	-0.89	1.50	10.16	1.67	3.0	-	35.913	12.44	17.54	23.97	11.53	15.44	34.99	29.97	14.53
5270	-0.74	1.50	10.16	1.67	3.0	39.750	35.911	12.59	18.16	23.97	11.38	15.59	36.22	29.97	14.38
5310	-1.70	1.50	10.17	1.67	3.0	39.206	35.860	11.64	14.59	23.97	12.33	14.64	29.11	29.97	15.33
5510	-4.77	1.50	9.90	1.67	3.0	39.691	35.904	8.30	6.76	23.97	15.67	11.30	13.49	29.97	18.67
5550	-1.68	1.50	10.18	1.67	3.0	40.498	35.854	11.67	14.69	23.97	12.30	14.67	29.31	29.97	15.30
5670	-1.77	1.50	10.17	1.67	3.0	40.241	35.880	11.57	14.35	23.97	12.40	14.57	28.64	29.97	15.40
5710	-2.04	1.50	10.17	1.67	3.0	41.804	35.836	11.30	13.49	23.97	12.67	14.30	26.92	29.97	15.67
5755	-2.29	1.50	10.16	1.67	3.0	-	35.866	11.04	12.71	30.00	18.96	14.04	25.35	36.00	21.96
5795	-2.19	1.50	10.16	1.67	3.0	-	35.827	11.14	13.00	30.00	18.86	14.14	25.94	36.00	21.86

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Maximum Conducted Output Power

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 20, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 61 % RH	25 deg. C / 39 % RH
Engineer	Akihiko Maeda	Takafumi Noguchi
Mode	Tx 11ac-40	

11ac-40

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-3.08	1.50	10.16	1.72	3.0	-	35.811	10.30	10.72	23.97	13.67	13.30	21.38	29.97	16.67
5230	-0.86	1.50	10.16	1.72	3.0	-	35.908	12.52	17.86	23.97	11.45	15.52	35.65	29.97	14.45
5270	-0.72	1.50	10.16	1.72	3.0	39.515	35.881	12.66	18.45	23.97	11.31	15.66	36.81	29.97	14.31
5310	-1.66	1.50	10.17	1.72	3.0	41.272	35.885	11.73	14.89	23.97	12.24	14.73	29.72	29.97	15.24
5510	-4.72	1.50	9.90	1.72	3.0	40.037	35.884	8.40	6.92	23.97	15.57	11.40	13.80	29.97	18.57
5550	-1.67	1.50	10.18	1.72	3.0	39.44	35.948	11.73	14.89	23.97	12.24	14.73	29.72	29.97	15.24
5670	-1.74	1.50	10.17	1.72	3.0	39.073	35.901	11.65	14.62	23.97	12.32	14.65	29.17	29.97	15.32
5710	-2.00	1.50	10.17	1.72	3.0	39.872	35.829	11.39	13.77	23.97	12.58	14.39	27.48	29.97	15.58
5755	-2.27	1.50	10.16	1.72	3.0	-	35.863	11.11	12.91	30.00	18.89	14.11	25.76	36.00	21.89
5795	-2.15	1.50	10.16	1.72	3.0	-	35.845	11.23	13.27	30.00	18.77	14.23	26.49	36.00	21.77

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1W

Maximum Conducted Output Power

Report No.	13521383H		
Test place	Ise EMC Lab. No.6 Measurement Room		
Date	October 20, 2020	October 30, 2020	December 16, 2020
Temperature / Humidity	19 deg. C / 61 % RH	25 deg. C / 39 % RH	19 deg. C / 34 % RH
Engineer	Akihiko Maeda	Takafumi Noguchi	Akihiko Maeda
Mode	Tx 11ac-80		

11ac-80 Applied limit: 15.407, mobile and portable client device

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted Power				e.i.r.p.			
								Result		Limit	Margin	Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5210	-3.20	1.50	9.88	3.28	3.0	-	74.794	11.46	14.00	23.97	12.51	14.46	27.93	29.97	15.51
5290	-2.84	1.50	9.89	3.28	3.0	82.684	74.861	11.83	15.24	23.97	12.14	14.83	30.41	29.97	15.14
5530	-2.00	1.50	9.90	3.28	3.0	79.273	74.964	12.68	18.54	23.97	11.29	15.68	36.98	29.97	14.29
5610	-1.64	1.50	10.18	3.28	3.0	83.085	74.953	13.32	21.48	23.97	10.65	16.32	42.85	29.97	13.65
5690	-1.56	1.50	10.17	3.28	3.0	80.955	74.993	13.39	21.83	23.97	10.58	16.39	43.55	29.97	13.58
5775	-1.48	1.50	10.16	3.28	3.0	-	74.901	13.46	22.18	30.00	16.54	16.46	44.26	36.00	19.54

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Maximum Conducted Output Power

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Shielded Room
Date	October 15, 2020
Temperature / Humidity	24 deg. C / 49 % RH
Engineer	Tomohisa Nakagawa
Mode	Tx

5180 MHz for 20 MHz BW

Mode	Rate Mbps	Reading (Burst power) LGI [dBm]	Reading (Burst power) SGI [dBm]
11a	6	0.83	
	9	0.88	
	12	0.92	0.83
	18	0.88	
	24	0.61	
	36	-0.30	
	48	-0.73	
	54	-1.61	

Mode	Rate MCS	Reading (Burst power) LGI [dBm]	Reading (Burst power) SGI [dBm]
11n-20	0	0.64	
	1	0.70	
	2	0.78	0.71
	3	0.54	
	4	0.60	
	5	-1.32	
	6	-1.63	
	7	-1.68	

Mode	Rate MCS	Reading (Burst power) LGI [dBm]	Reading (Burst power) SGI [dBm]
11ac-20	0	0.62	
	1	0.63	
	2	0.67	0.66
	3	0.52	
	4	0.59	
	5	-1.19	
	6	-1.78	
	7	-1.78	
	8	-3.39	

5190 MHz for 40 MHz BW

Mode	Rate MCS	Reading (Burst power) LGI [dBm]	Reading (Burst power) SGI [dBm]
11n-40	0	-1.10	
	1	-1.05	
	2	-0.90	-0.94
	3	-1.22	
	4	-1.05	
	5	-1.58	
	6	-2.01	
	7	-2.33	

Mode	Rate MCS	Reading (Burst power) LGI [dBm]	Reading (Burst power) SGI [dBm]
11ac-40	0	-1.13	
	1	-0.99	
	2	-0.97	-0.99
	3	-1.16	
	4	-1.18	
	5	-1.51	
	6	-2.55	
	7	-2.36	
	8	-3.71	
	9	-6.24	

5210 MHz for 80 MHz BW

Mode	Rate MCS	Reading (Burst power) LGI [dBm]	Reading (Burst power) SGI [dBm]
11ac-80	0	-0.66	
	1	-0.54	
	2	-0.52	-0.53
	3	-0.78	
	4	-0.76	
	5	-0.71	
	6	-1.06	
	7	-1.55	
	8	-3.12	
	9	-4.12	

All comparisons were carried out on same frequency and measurement factors.
Power value(burst power) is used the gating functionality of the power meter.
Italic is worst rate.

Average Output Power
(Reference data for RF Exposure)

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	October 20, 2020
Temperature / Humidity	19 deg. C / 61 % RH
Engineer	Akihiko Maeda
Mode	Tx 11a

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5180	-0.83	1.50	10.16	10.83	12.11	0.34	11.17	13.09
5200	0.16	1.50	10.16	11.82	15.21	0.34	12.16	16.44
5240	-0.11	1.50	10.16	11.55	14.29	0.34	11.89	15.45
5260	-0.15	1.50	10.16	11.51	14.16	0.34	11.85	15.31
5300	0.38	1.50	10.17	12.05	16.03	0.34	12.39	17.34
5320	-1.21	1.50	10.17	10.46	11.12	0.34	10.80	12.02
5500	-1.58	1.50	10.19	10.11	10.26	0.34	10.45	11.09
5580	-1.21	1.50	10.18	10.47	11.14	0.34	10.81	12.05
5680	-1.34	1.50	10.17	10.33	10.79	0.34	10.67	11.67
5700	-1.23	1.50	10.17	10.44	11.07	0.34	10.78	11.97
5720	-1.42	1.50	10.17	10.25	10.59	0.34	10.59	11.46
5745	-0.45	1.50	10.16	11.21	13.21	0.34	11.55	14.29
5785	-0.74	1.50	10.16	10.92	12.36	0.34	11.26	13.37
5825	-0.66	1.50	10.16	11.00	12.59	0.34	11.34	13.61

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power
(Reference data for RF Exposure)

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	October 20, 2020
Temperature / Humidity	19 deg. C / 61 % RH
Engineer	Akihiko Maeda
Mode	Tx 11n-20

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5180	-0.65	1.50	10.16	11.01	12.62	0.36	11.37	13.71
5200	1.32	1.50	10.16	12.98	19.86	0.36	13.34	21.58
5240	1.09	1.50	10.16	12.75	18.84	0.36	13.11	20.46
5260	0.90	1.50	10.16	12.56	18.03	0.36	12.92	19.59
5300	1.35	1.50	10.17	13.02	20.04	0.36	13.38	21.78
5320	-0.97	1.50	10.17	10.70	11.75	0.36	11.06	12.76
5500	-1.47	1.50	10.19	10.22	10.52	0.36	10.58	11.43
5580	-1.25	1.50	10.18	10.43	11.04	0.36	10.79	11.99
5680	-1.34	1.50	10.17	10.33	10.79	0.36	10.69	11.72
5700	-0.97	1.50	10.17	10.70	11.75	0.36	11.06	12.76
5720	-1.13	1.50	10.17	10.54	11.32	0.36	10.90	12.30
5745	-0.24	1.50	10.16	11.42	13.87	0.36	11.78	15.07
5785	-0.36	1.50	10.16	11.30	13.49	0.36	11.66	14.66
5825	-0.33	1.50	10.16	11.33	13.58	0.36	11.69	14.76

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Average Output Power
(Reference data for RF Exposure)

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	October 20, 2020
Temperature / Humidity	19 deg. C / 61 % RH
Engineer	Akihiko Maeda
Mode	Tx 11ac-20

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5180	-0.54	1.50	10.16	11.12	12.94	0.38	11.50	14.13
5200	1.32	1.50	10.16	12.98	19.86	0.38	13.36	21.68
5240	1.12	1.50	10.16	12.78	18.97	0.38	13.16	20.70
5260	1.15	1.50	10.16	12.81	19.10	0.38	13.19	20.84
5300	1.42	1.50	10.17	13.09	20.37	0.38	13.47	22.23
5320	-0.91	1.50	10.17	10.76	11.91	0.38	11.14	13.00
5500	-1.44	1.50	10.19	10.25	10.59	0.38	10.63	11.56
5580	-1.23	1.50	10.18	10.45	11.09	0.38	10.83	12.11
5680	-1.18	1.50	10.17	10.49	11.19	0.38	10.87	12.22
5700	-0.87	1.50	10.17	10.80	12.02	0.38	11.18	13.12
5720	-1.12	1.50	10.17	10.55	11.35	0.38	10.93	12.39
5745	-0.18	1.50	10.16	11.48	14.06	0.38	11.86	15.35
5785	-0.35	1.50	10.16	11.31	13.52	0.38	11.69	14.76
5825	-0.32	1.50	10.16	11.34	13.61	0.38	11.72	14.86

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Average Output Power
(Reference data for RF Exposure)

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 20, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 61 % RH	25 deg. C / 39 % RH
Engineer	Akihiko Maeda	Takafumi Noguchi
Mode	Tx 11n-40	

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5190	-2.29	1.50	10.16	9.37	8.65	0.64	10.01	10.02
5230	-0.16	1.50	10.16	11.50	14.13	0.64	12.14	16.37
5270	-0.06	1.50	10.16	11.60	14.45	0.64	12.24	16.75
5310	-0.94	1.50	10.17	10.73	11.83	0.64	11.37	13.71
5510	-4.20	1.50	9.90	7.20	5.25	0.64	7.84	6.08
5550	-0.90	1.50	10.18	10.78	11.97	0.64	11.42	13.87
5670	-1.03	1.50	10.17	10.64	11.59	0.64	11.28	13.43
5710	-1.16	1.50	10.17	10.51	11.25	0.64	11.15	13.03
5755	-1.53	1.50	10.16	10.13	10.30	0.64	10.77	11.94
5795	-1.43	1.50	10.16	10.23	10.54	0.64	10.87	12.22

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Average Output Power
(Reference data for RF Exposure)

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 20, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 61 % RH	25 deg. C / 39 % RH
Engineer	Akihiko Maeda	Takafumi Noguchi
Mode	Tx 11ac-40	

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5190	-2.28	1.50	10.16	9.38	8.67	0.75	10.13	10.30
5230	-0.12	1.50	10.16	11.54	14.26	0.75	12.29	16.94
5270	-0.05	1.50	10.16	11.61	14.49	0.75	12.36	17.22
5310	-0.93	1.50	10.17	10.74	11.86	0.75	11.49	14.09
5510	-4.16	1.50	9.90	7.24	5.30	0.75	7.99	6.30
5550	-0.92	1.50	10.18	10.76	11.91	0.75	11.51	14.16
5670	-0.99	1.50	10.17	10.68	11.69	0.75	11.43	13.90
5710	-1.14	1.50	10.17	10.53	11.30	0.75	11.28	13.43
5755	-1.45	1.50	10.16	10.21	10.50	0.75	10.96	12.47
5795	-1.37	1.50	10.16	10.29	10.69	0.75	11.04	12.71

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Average Output Power
(Reference data for RF Exposure)

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 20, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 61 % RH	25 deg. C / 39 % RH
Engineer	Akihiko Maeda	Takafumi Noguchi
Mode	Tx 11ac-80	

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5210	-2.12	1.50	9.88	9.26	8.43	2.09	11.35	13.65
5290	-1.92	1.50	9.89	9.47	8.85	2.09	11.56	14.32
5530	-1.41	1.50	9.90	9.99	9.98	2.09	12.08	16.14
5610	-0.55	1.50	10.18	11.13	12.97	2.09	13.22	20.99
5690	-0.41	1.50	10.17	11.26	13.37	2.09	13.35	21.63
5775	-0.45	1.50	10.16	11.21	13.21	2.09	13.30	21.38

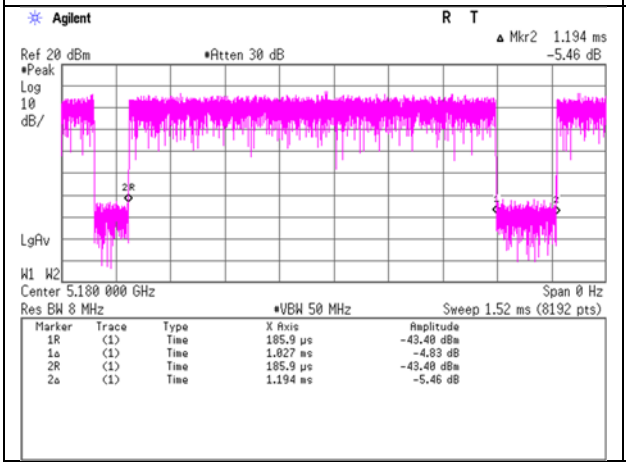
Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Burst rate confirmation

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Shielded Room
Date	October 15, 2020
Temperature / Humidity	24 deg. C / 49 % RH
Engineer	Tomohisa Nakagawa
Mode	Tx

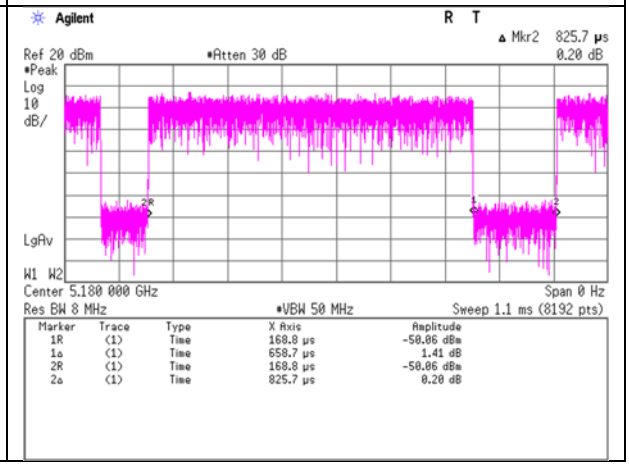
11a 12 Mbps

Tx on / (Tx on + Tx off) =	**0.860**
Tx on / (Tx on + Tx off) * 100 =	**86.0 %**
Duty factor = 10 * log (1.194 / 1.027) =	**0.65 dB**



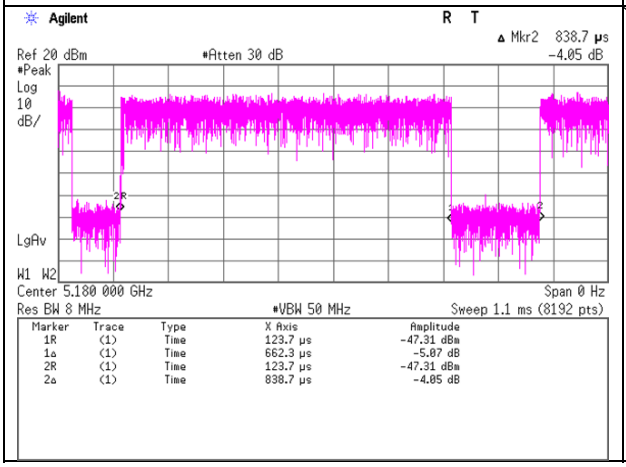
11n-20 MCS 2

Tx on / (Tx on + Tx off) =	**0.798**
Tx on / (Tx on + Tx off) * 100 =	**79.8 %**
Duty factor = 10 * log (0.8257 / 0.6587) =	**0.98 dB**



11ac-20 MCS 2

Tx on / (Tx on + Tx off) =	**0.790**
Tx on / (Tx on + Tx off) * 100 =	**79.0 %**
Duty factor = 10 * log (0.8387 / 0.6623) =	**1.03 dB**



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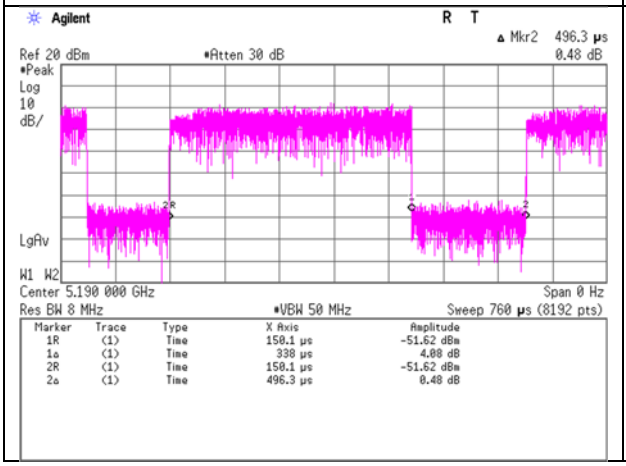
Burst rate confirmation

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Shielded Room
Date	October 15, 2020
Temperature / Humidity	24 deg. C / 49 % RH
Engineer	Tomohisa Nakagawa
Mode	Tx

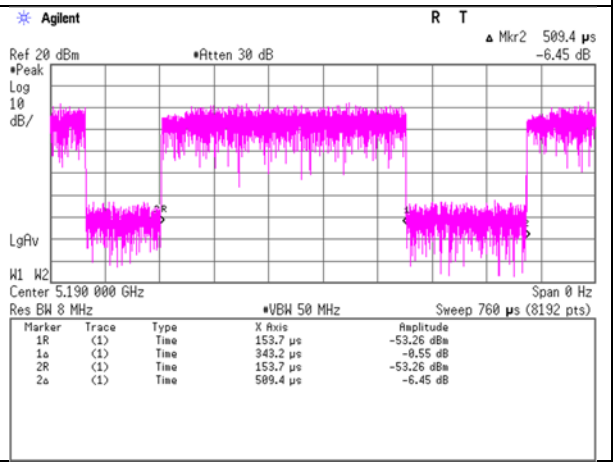
11n-40 MCS 2

Tx on / (Tx on + Tx off) =	**0.681**
Tx on / (Tx on + Tx off) * 100 =	**68.1 %**
Duty factor = 10 * log (0.4963 / 0.338) =	**1.67 dB**



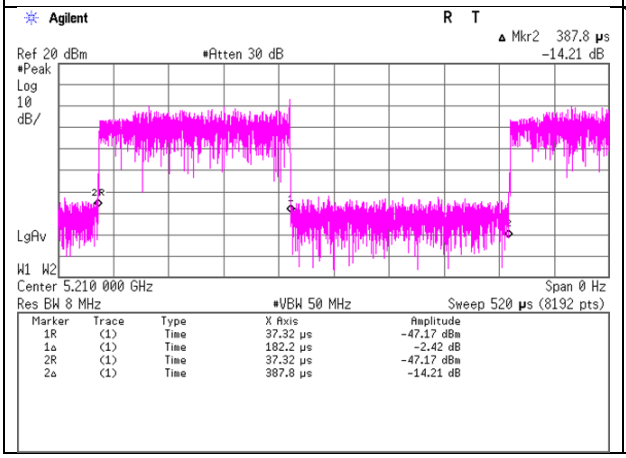
11ac-40 MCS 2

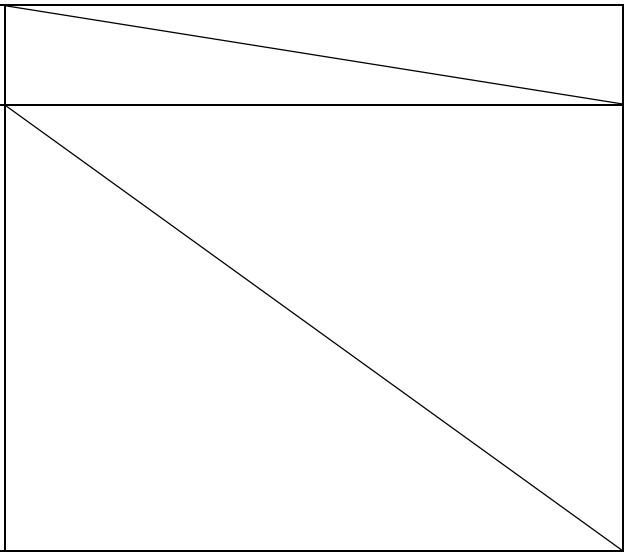
Tx on / (Tx on + Tx off) =	**0.674**
Tx on / (Tx on + Tx off) * 100 =	**67.4 %**
Duty factor = 10 * log (0.5094 / 0.3432) =	**1.72 dB**



11ac-80 MCS 2

Tx on / (Tx on + Tx off) =	**0.470**
Tx on / (Tx on + Tx off) * 100 =	**47.0 %**
Duty factor = 10 * log (0.3878 / 0.1822) =	**3.28 dB**



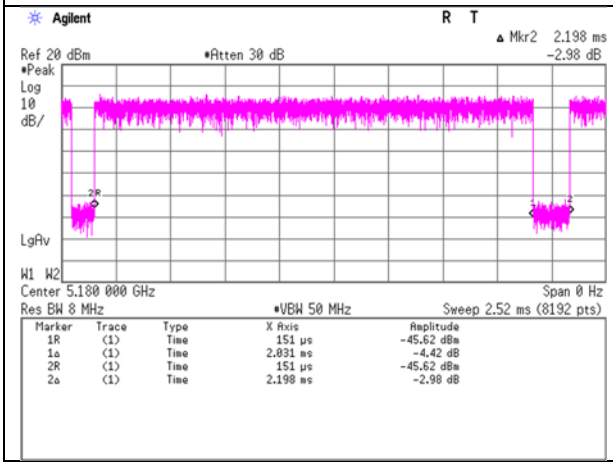


Burst rate confirmation

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Shielded Room
Date	October 15, 2020
Temperature / Humidity	24 deg. C / 49 % RH
Engineer	Tomohisa Nakagawa
Mode	Tx

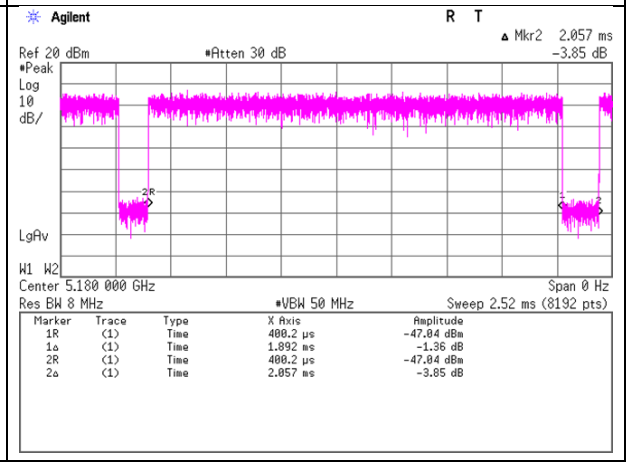
11a 6 Mbps

Tx on / (Tx on + Tx off) =	0.924
Tx on / (Tx on + Tx off) * 100 =	92.4 %
Duty factor = 10 * log (2.198 / 2.031) =	0.34 dB



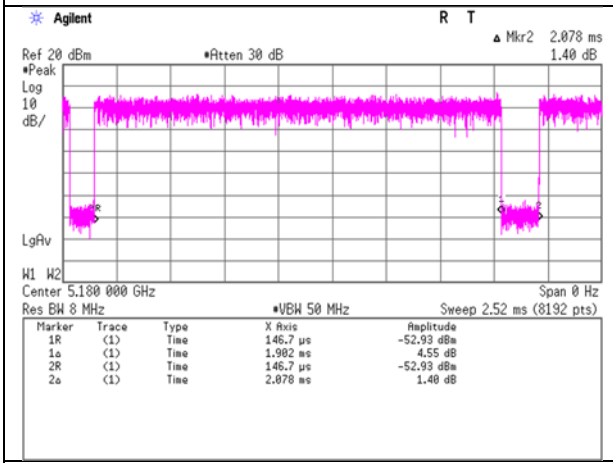
11n-20 MCS 0

Tx on / (Tx on + Tx off) =	0.920
Tx on / (Tx on + Tx off) * 100 =	92.0 %
Duty factor = 10 * log (2.057 / 1.892) =	0.36 dB



11ac-20 MCS 0

Tx on / (Tx on + Tx off) =	0.915
Tx on / (Tx on + Tx off) * 100 =	91.5 %
Duty factor = 10 * log (2.078 / 1.902) =	0.38 dB

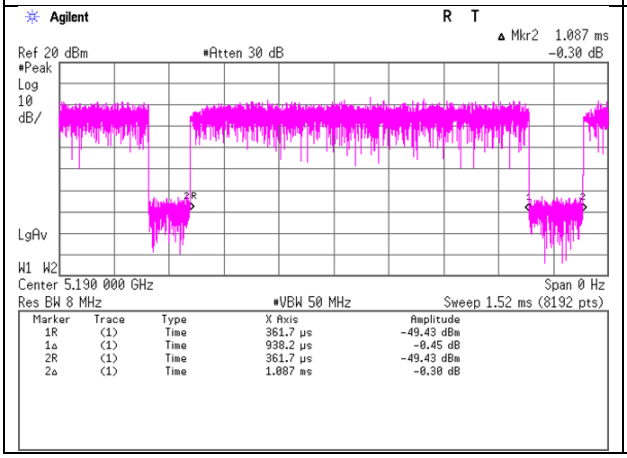


Burst rate confirmation

Report No.	13521383H
Test place	Ise EMC Lab. No.6 Shielded Room
Date	October 15, 2020
Temperature / Humidity	24 deg. C / 49 % RH
Engineer	Tomohisa Nakagawa
Mode	Tx

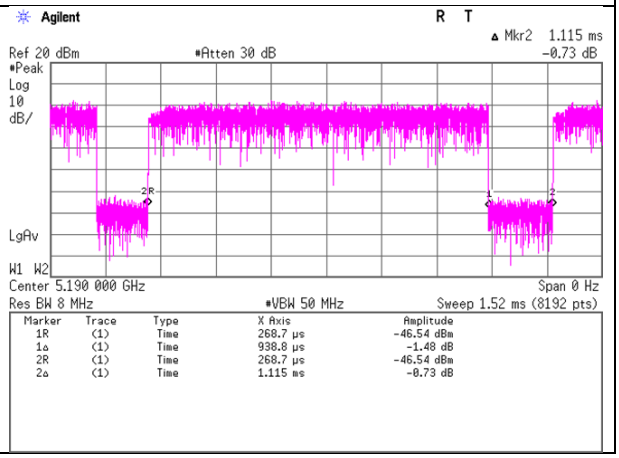
11n-40 MCS 0

Tx on / (Tx on + Tx off) =	**0.863**
Tx on / (Tx on + Tx off) * 100 =	**86.3 %**
Duty factor = 10 * log (1.087 / 0.9382) =	**0.64 dB**



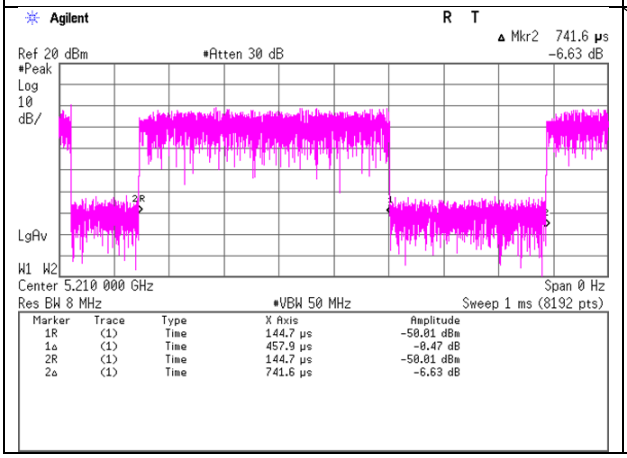
11ac-40 MCS 0

Tx on / (Tx on + Tx off) =	**0.842**
Tx on / (Tx on + Tx off) * 100 =	**84.2 %**
Duty factor = 10 * log (1.115 / 0.9388) =	**0.75 dB**



11ac-80 MCS 0

Tx on / (Tx on + Tx off) =	**0.617**
Tx on / (Tx on + Tx off) * 100 =	**61.7 %**
Duty factor = 10 * log (0.7416 / 0.4579) =	**2.09 dB**



Maximum Power Spectral Density

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 22, 2020
Temperature / Humidity	19 deg. C / 54 % RH	20 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11a	

11a Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5180	-11.05	1.50	10.16	0.65	3.0	0.00	1.26	11.00	9.74	4.26	17.00	12.74
5200	-9.83	1.50	10.16	0.65	3.0	0.00	2.48	11.00	8.52	5.48	17.00	11.52
5240	-10.45	1.50	10.16	0.65	3.0	0.00	1.86	11.00	9.14	4.86	17.00	12.14
5260	-9.95	1.50	10.16	0.65	3.0	0.00	2.37	11.00	8.64	5.37	17.00	11.64
5300	-9.65	1.50	10.17	0.65	3.0	0.00	2.67	11.00	8.33	5.67	17.00	11.33
5320	-11.07	1.50	10.17	0.65	3.0	0.00	1.25	11.00	9.75	4.25	17.00	12.75
5500	-11.12	1.50	10.19	0.65	3.0	0.00	1.22	11.00	9.78	4.22	17.00	12.78
5580	-10.95	1.50	10.18	0.65	3.0	0.00	1.38	11.00	9.62	4.38	17.00	12.62
5680	-11.34	1.50	10.17	0.65	3.0	0.00	0.98	11.00	10.02	3.98	17.00	13.02
5700	-11.35	1.50	10.17	0.65	3.0	0.00	0.97	11.00	10.03	3.97	17.00	13.03
5720	-11.59	1.50	10.17	0.65	3.0	0.00	0.73	11.00	10.27	3.73	17.00	13.27
5745	-13.60	1.50	10.16	0.65	3.0	0.27	-1.02	30.00	31.02	1.98	36.00	34.02
5785	-14.03	1.50	10.16	0.65	3.0	0.27	-1.45	30.00	31.45	1.55	36.00	34.45
5825	-14.14	1.50	10.16	0.65	3.0	0.27	-1.56	30.00	31.56	1.44	36.00	34.56

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 22, 2020
Temperature / Humidity	19 deg. C / 54 % RH	20 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11n-20	

11n-20

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5180	-10.78	1.50	10.16	0.98	3.0	0.00	1.86	11.00	9.14	4.86	17.00	12.14
5200	-8.95	1.50	10.16	0.98	3.0	0.00	3.70	11.00	7.31	6.70	17.00	10.31
5240	-9.35	1.50	10.16	0.98	3.0	0.00	3.30	11.00	7.71	6.30	17.00	10.71
5260	-11.67	1.50	10.16	0.98	3.0	0.00	0.98	11.00	10.03	3.98	17.00	13.03
5300	-8.50	1.50	10.17	0.98	3.0	0.00	4.15	11.00	6.85	7.15	17.00	9.85
5320	-10.85	1.50	10.17	0.98	3.0	0.00	1.80	11.00	9.20	4.80	17.00	12.20
5500	-11.60	1.50	10.19	0.98	3.0	0.00	1.07	11.00	9.93	4.07	17.00	12.93
5580	-10.98	1.50	10.18	0.98	3.0	0.00	1.68	11.00	9.32	4.68	17.00	12.32
5680	-11.48	1.50	10.17	0.98	3.0	0.00	1.17	11.00	9.83	4.17	17.00	12.83
5700	-11.31	1.50	10.17	0.98	3.0	0.00	1.34	11.00	9.66	4.34	17.00	12.66
5720	-11.59	1.50	10.17	0.98	3.0	0.00	1.06	11.00	9.94	4.06	17.00	12.94
5745	-13.42	1.50	10.16	0.98	3.0	0.27	-0.51	30.00	30.51	2.49	36.00	33.51
5785	-13.88	1.50	10.16	0.98	3.0	0.27	-0.97	30.00	30.97	2.03	36.00	33.97
5825	-14.09	1.50	10.16	0.98	3.0	0.27	-1.18	30.00	31.18	1.82	36.00	34.18

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 22, 2020
Temperature / Humidity	19 deg. C / 54 % RH	20 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11ac-20	

11ac-20

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5180	-11.10	1.50	10.16	1.03	3.0	0.00	1.59	11.00	9.41	4.59	17.00	12.41
5200	-9.17	1.50	10.16	1.03	3.0	0.00	3.52	11.00	7.48	6.52	17.00	10.48
5240	-8.91	1.50	10.16	1.03	3.0	0.00	3.78	11.00	7.22	6.78	17.00	10.22
5260	-9.19	1.50	10.16	1.03	3.0	0.00	3.51	11.00	7.50	6.51	17.00	10.50
5300	-8.58	1.50	10.17	1.03	3.0	0.00	4.12	11.00	6.88	7.12	17.00	9.88
5320	-10.88	1.50	10.17	1.03	3.0	0.00	1.82	11.00	9.18	4.82	17.00	12.18
5500	-11.27	1.50	10.19	1.03	3.0	0.00	1.45	11.00	9.55	4.45	17.00	12.55
5580	-10.80	1.50	10.18	1.03	3.0	0.00	1.91	11.00	9.09	4.91	17.00	12.09
5680	-11.35	1.50	10.17	1.03	3.0	0.00	1.35	11.00	9.65	4.35	17.00	12.65
5700	-11.41	1.50	10.17	1.03	3.0	0.00	1.29	11.00	9.71	4.29	17.00	12.71
5720	-11.86	1.50	10.17	1.03	3.0	0.00	0.84	11.00	10.16	3.84	17.00	13.16
5745	-13.51	1.50	10.16	1.03	3.0	0.27	-0.56	30.00	30.56	2.44	36.00	33.56
5785	-14.02	1.50	10.16	1.03	3.0	0.27	-1.07	30.00	31.07	1.93	36.00	34.07
5825	-13.68	1.50	10.16	1.03	3.0	0.27	-0.73	30.00	30.73	2.27	36.00	33.73

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 54 % RH	25 deg. C / 39 % RH
Engineer	Hiroyuki Furutaka	Takafumi Noguchi
Mode	Tx 11n-40	

11n-40 Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5190	-16.41	1.50	10.16	1.67	3.0	0.00	-3.08	11.00	14.08	-0.08	17.00	17.08
5230	-14.09	1.50	10.16	1.67	3.0	0.00	-0.76	11.00	11.76	2.24	17.00	14.76
5270	-14.00	1.50	10.16	1.67	3.0	0.00	-0.67	11.00	11.67	2.33	17.00	14.67
5310	-14.76	1.50	10.17	1.67	3.0	0.00	-1.42	11.00	12.42	1.59	17.00	15.42
5510	-18.57	1.50	9.90	1.67	3.0	0.00	-5.50	11.00	16.50	-2.50	17.00	19.50
5550	-14.70	1.50	10.18	1.67	3.0	0.00	-1.35	11.00	12.35	1.65	17.00	15.35
5670	-14.85	1.50	10.17	1.67	3.0	0.00	-1.51	11.00	12.51	1.49	17.00	15.51
5710	-15.19	1.50	10.17	1.67	3.0	0.00	-1.85	11.00	12.85	1.15	17.00	15.85
5755	-18.51	1.50	10.16	1.67	3.0	0.27	-4.91	30.00	34.91	-1.91	36.00	37.91
5795	-18.66	1.50	10.16	1.67	3.0	0.27	-5.06	30.00	35.06	-2.06	36.00	38.06

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 54 % RH	25 deg. C / 39 % RH
Engineer	Hiroyuki Furutaka	Takafumi Noguchi
Mode	Tx 11ac-40	

11ac-40 Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5190	-16.33	1.50	10.16	1.72	3.0	0.00	-2.95	11.00	13.95	0.05	17.00	16.95
5230	-14.16	1.50	10.16	1.72	3.0	0.00	-0.78	11.00	11.78	2.22	17.00	14.78
5270	-14.17	1.50	10.16	1.72	3.0	0.00	-0.79	11.00	11.79	2.21	17.00	14.79
5310	-15.55	1.50	10.17	1.72	3.0	0.00	-2.16	11.00	13.16	0.84	17.00	16.16
5510	-18.55	1.50	9.90	1.72	3.0	0.00	-5.43	11.00	16.43	-2.43	17.00	19.43
5550	-14.64	1.50	10.18	1.72	3.0	0.00	-1.24	11.00	12.24	1.76	17.00	15.24
5670	-14.80	1.50	10.17	1.72	3.0	0.00	-1.41	11.00	12.41	1.59	17.00	15.41
5710	-15.02	1.50	10.17	1.72	3.0	0.00	-1.63	11.00	12.63	1.37	17.00	15.63
5755	-18.41	1.50	10.16	1.72	3.0	0.27	-4.76	30.00	34.76	-1.76	36.00	37.76
5795	-18.61	1.50	10.16	1.72	3.0	0.27	-4.96	30.00	34.96	-1.96	36.00	37.96

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 54 % RH	25 deg. C / 39 % RH
Engineer	Hiroyuki Furutaka	Takafumi Noguchi
Mode	Tx 11ac-80	

11ac-80 Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5210	-19.07	1.50	9.88	3.28	3.0	0.00	-4.41	11.00	15.41	-1.41	17.00	18.41
5290	-19.36	1.50	9.89	3.28	3.0	0.00	-4.69	11.00	15.69	-1.69	17.00	18.69
5530	-18.62	1.50	9.90	3.28	3.0	0.00	-3.94	11.00	14.94	-0.94	17.00	17.94
5610	-17.76	1.50	10.18	3.28	3.0	0.00	-2.80	11.00	13.80	0.21	17.00	16.80
5690	-17.98	1.50	10.17	3.28	3.0	0.00	-3.03	11.00	14.03	-0.03	17.00	17.03
5775	-20.64	1.50	10.16	3.28	3.0	0.27	-5.43	30.00	35.43	-2.43	36.00	38.43

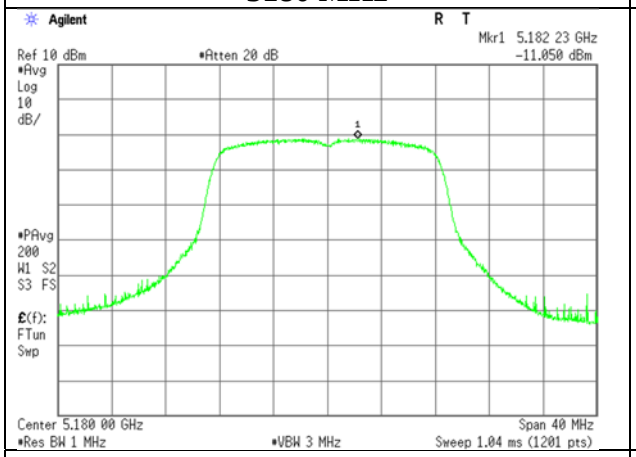
Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

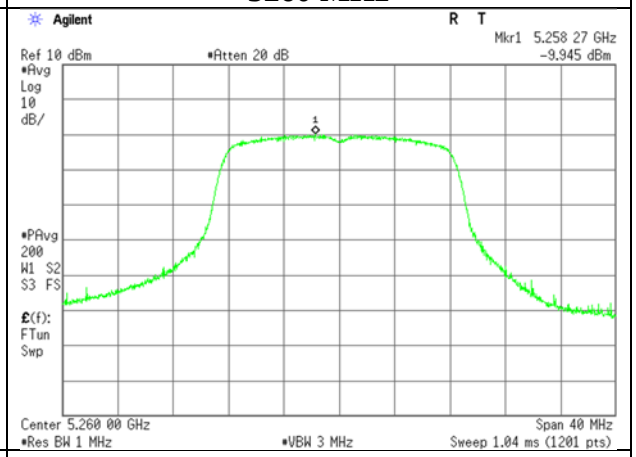
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11a	

11a

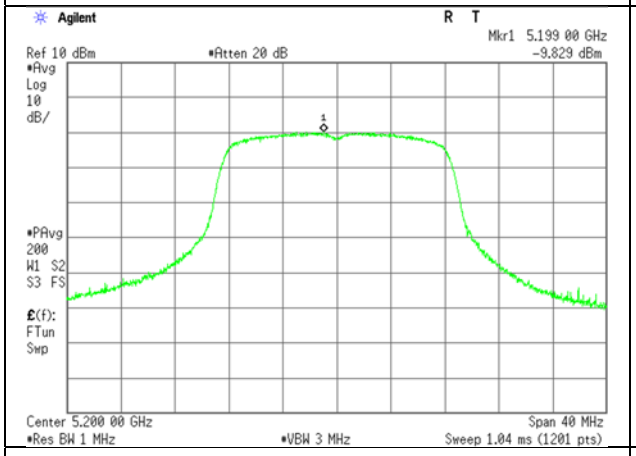
5180 MHz



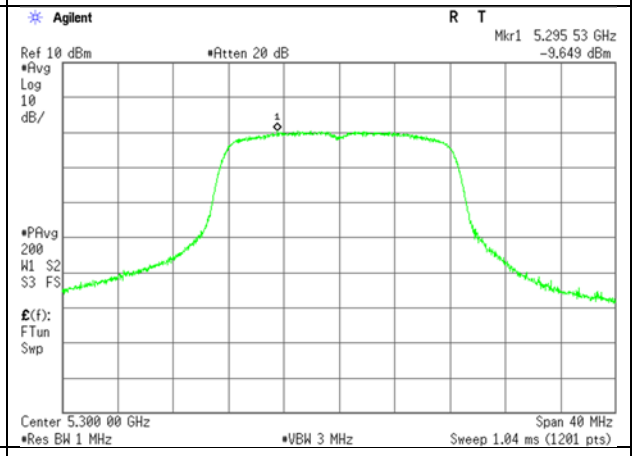
5260 MHz



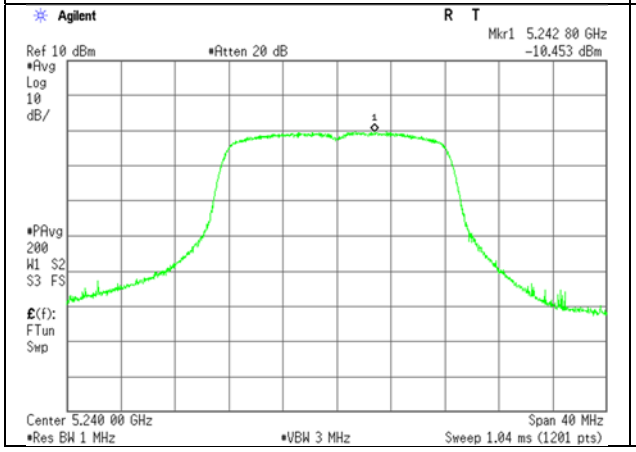
5200 MHz



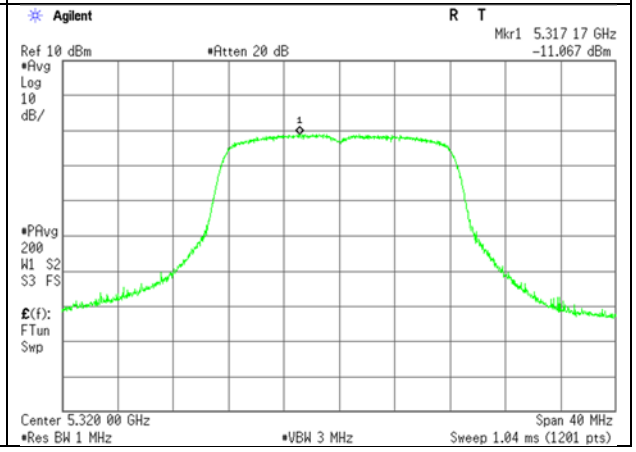
5300 MHz



5240 MHz



5320 MHz

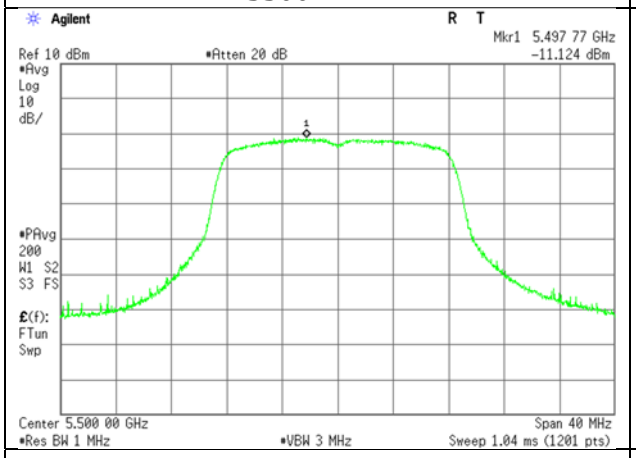


Maximum Power Spectral Density

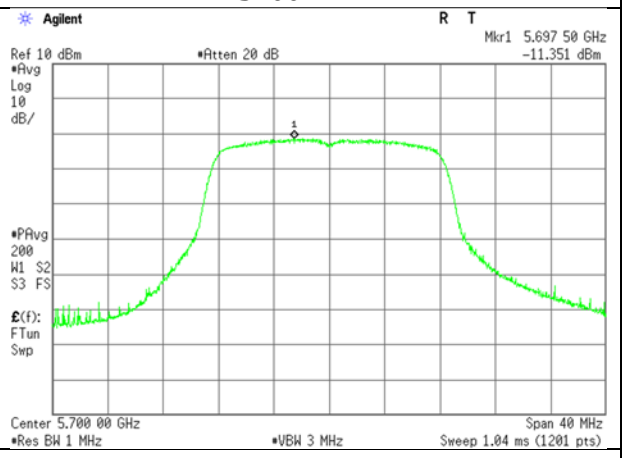
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11a	

11a

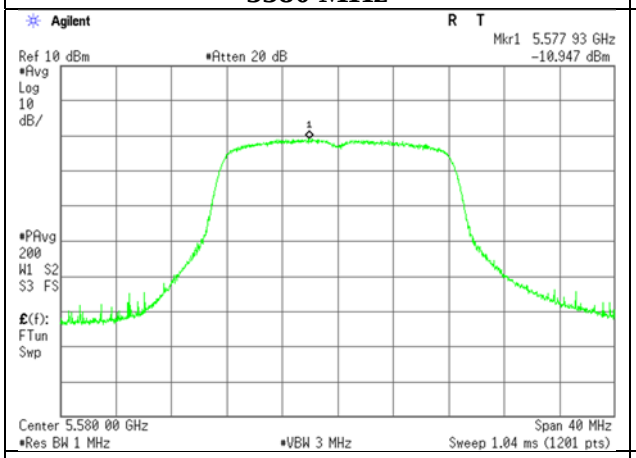
5500 MHz



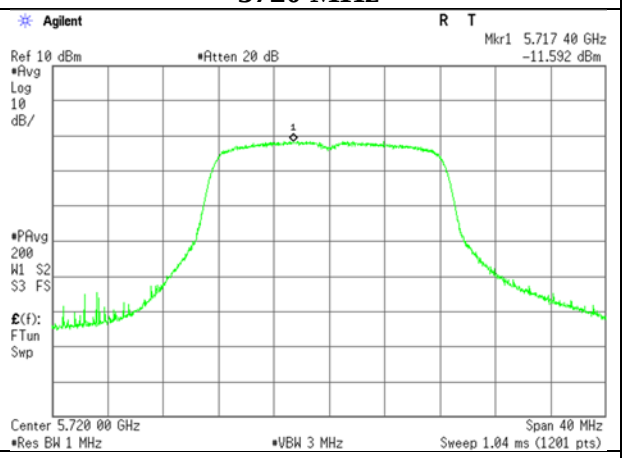
5700 MHz



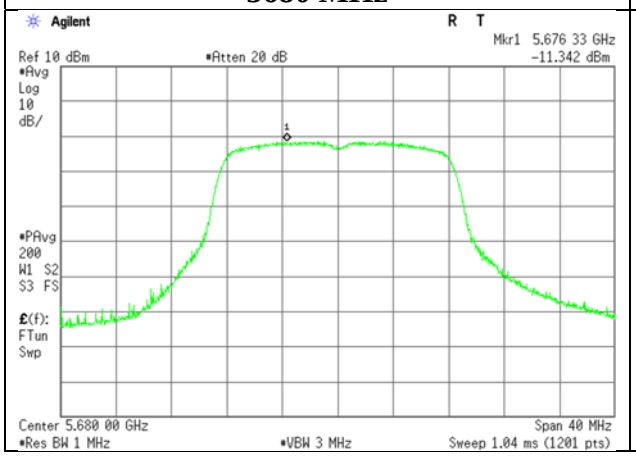
5580 MHz



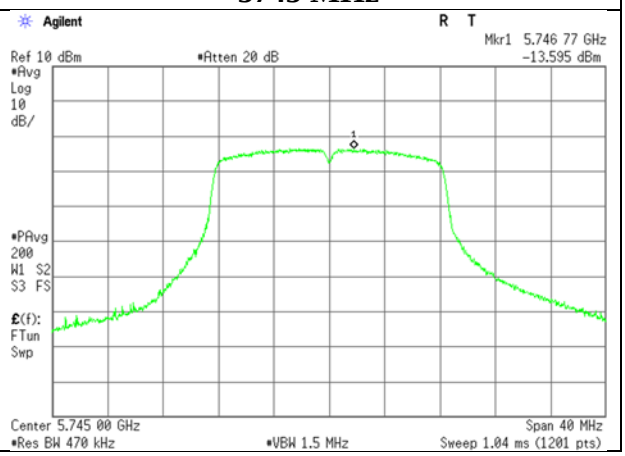
5720 MHz



5680 MHz



5745 MHz

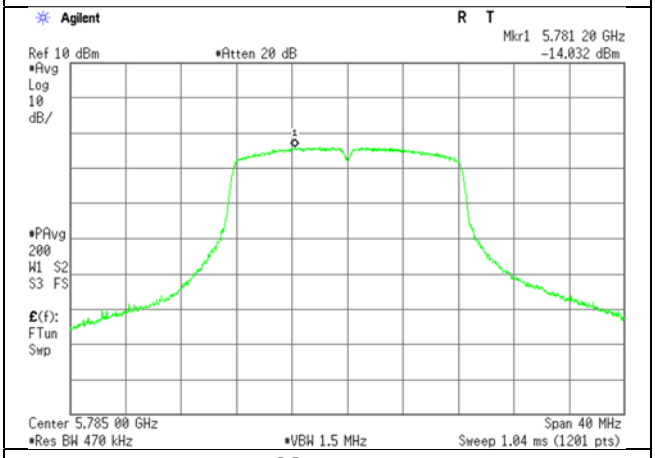


Maximum Power Spectral Density

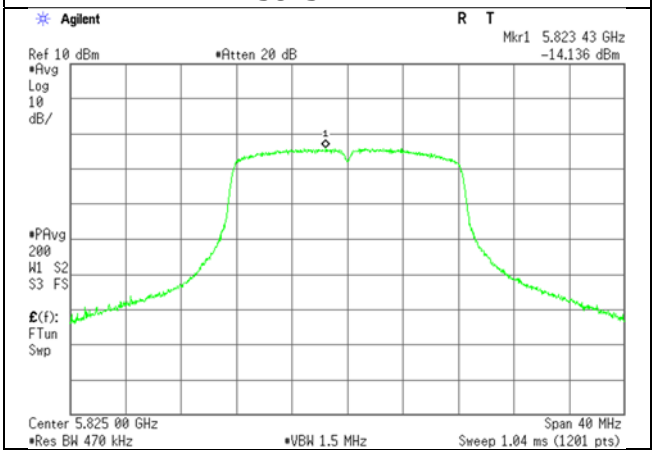
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11a	

11a

5785 MHz



5825 MHz

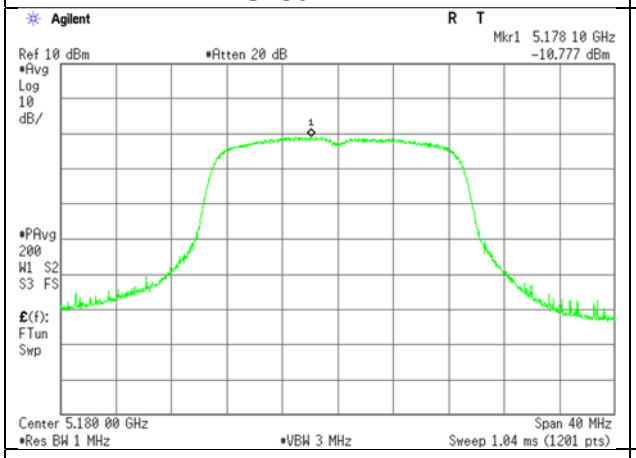


Maximum Power Spectral Density

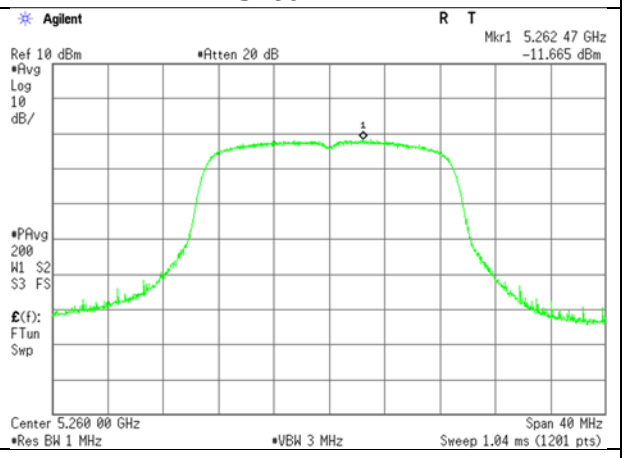
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11n-20	

11n-20

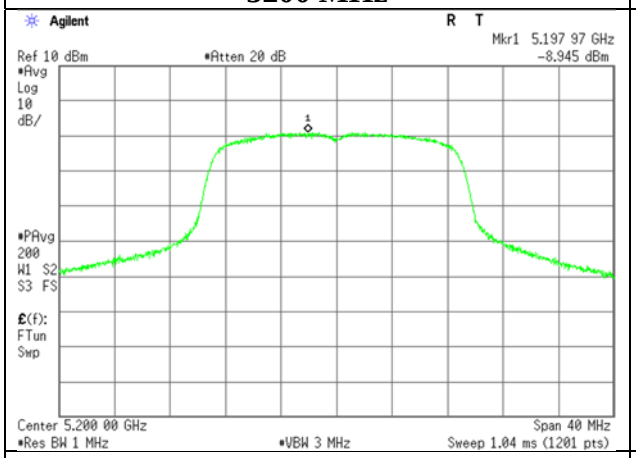
5180 MHz



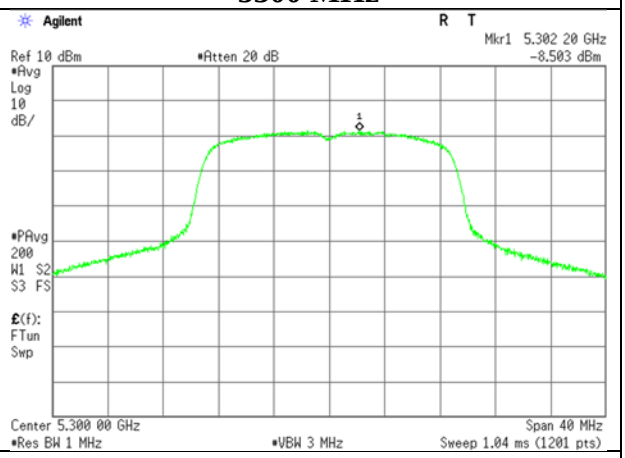
5260 MHz



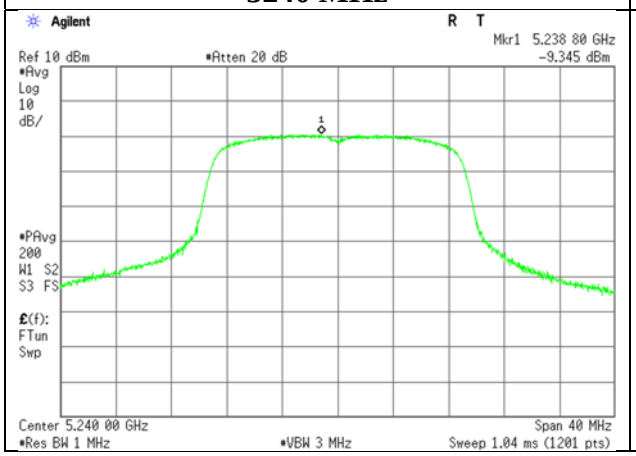
5200 MHz



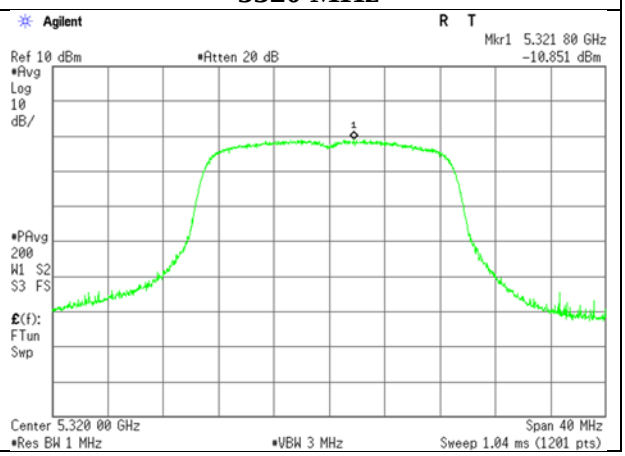
5300 MHz



5240 MHz



5320 MHz

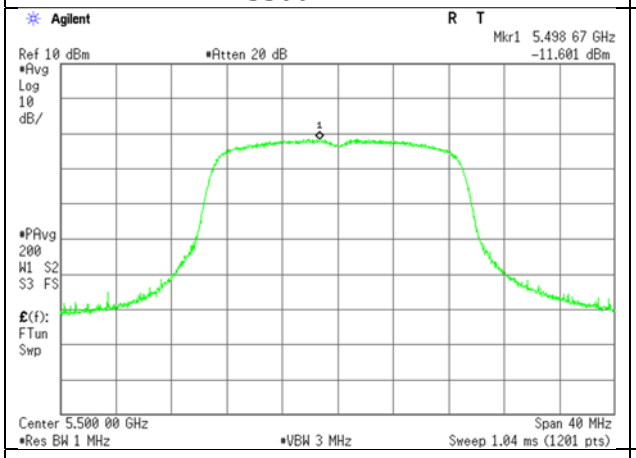


Maximum Power Spectral Density

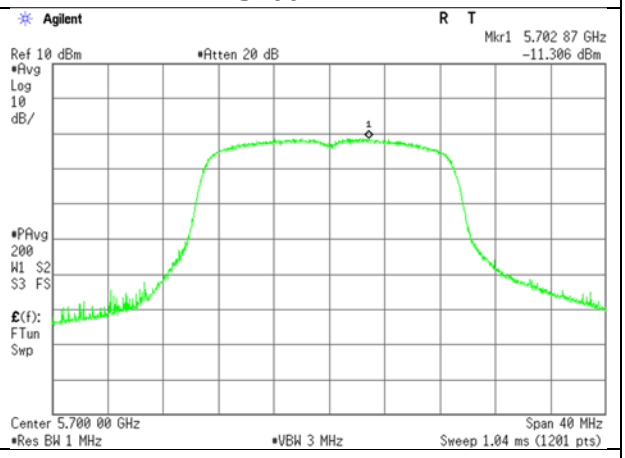
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11n-20	

11n-20

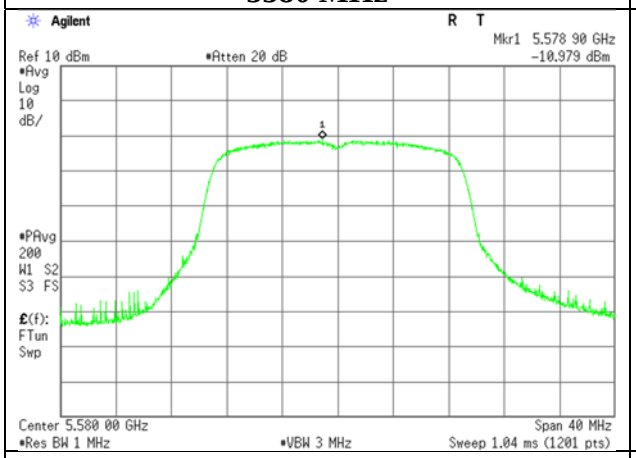
5500 MHz



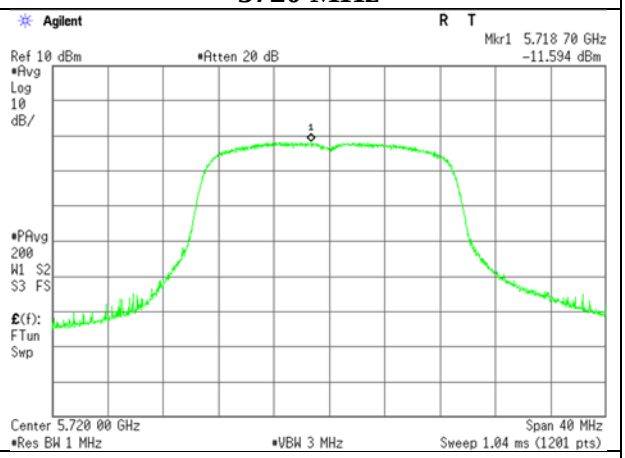
5700 MHz



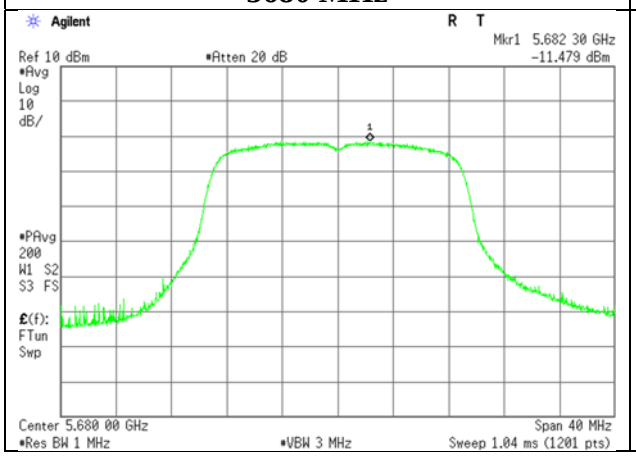
5580 MHz



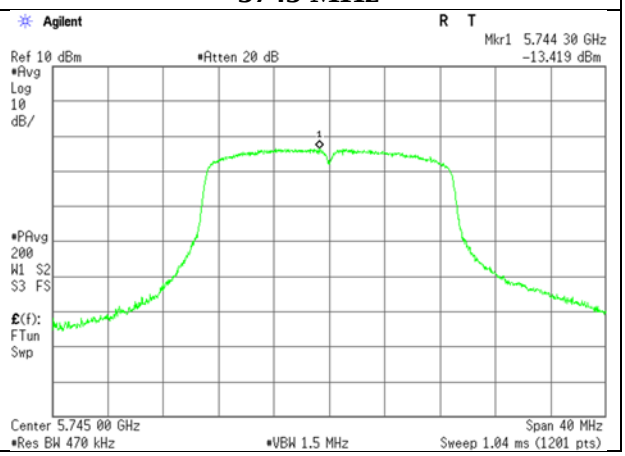
5720 MHz



5680 MHz



5745 MHz

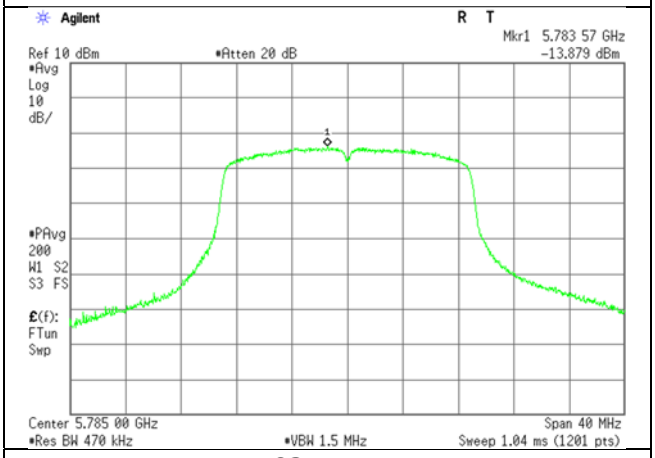


Maximum Power Spectral Density

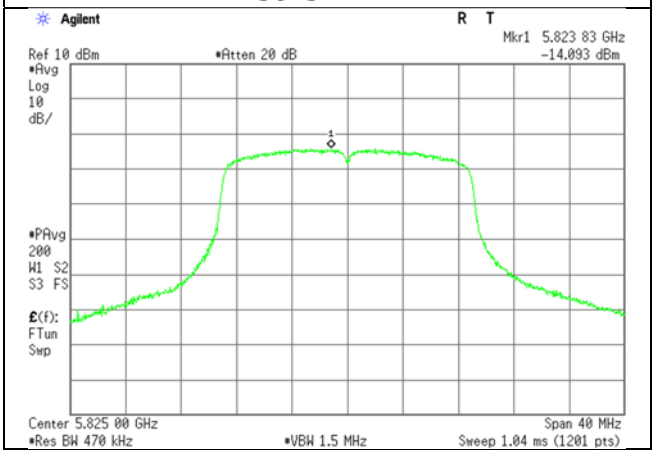
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11n-20	

11n-20

5785 MHz



5825 MHz

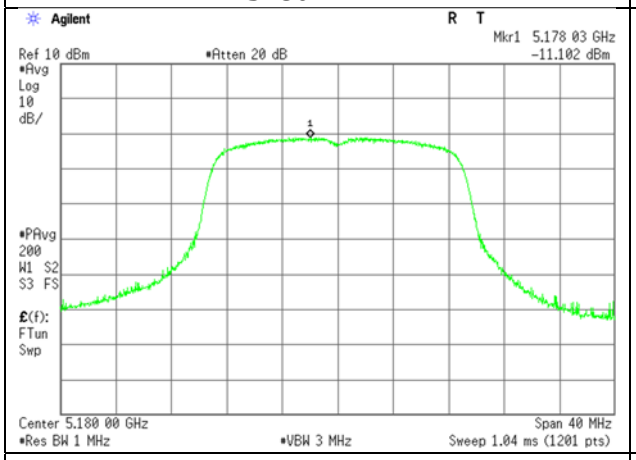


Maximum Power Spectral Density

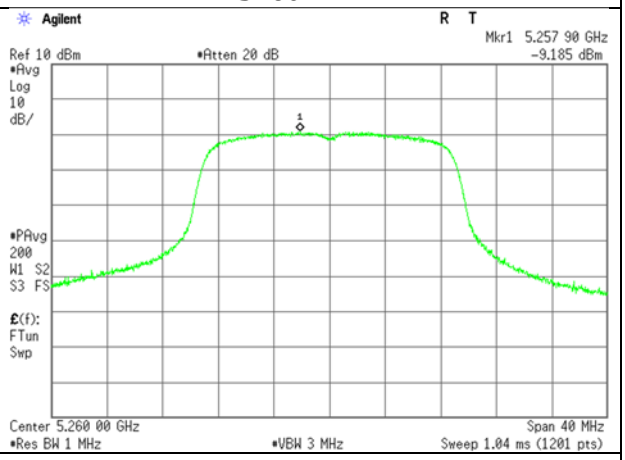
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11ac-20	

11ac-20

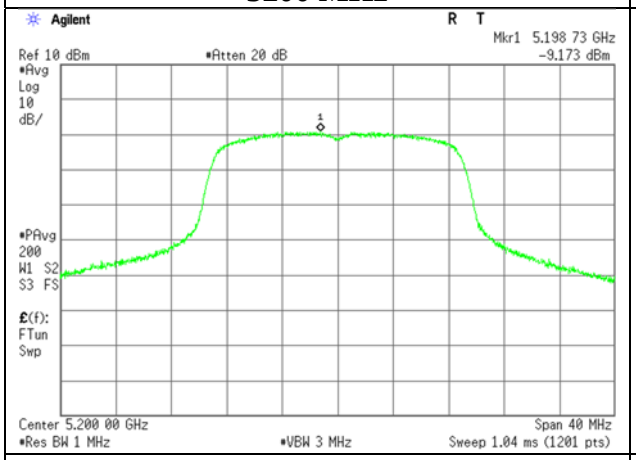
5180 MHz



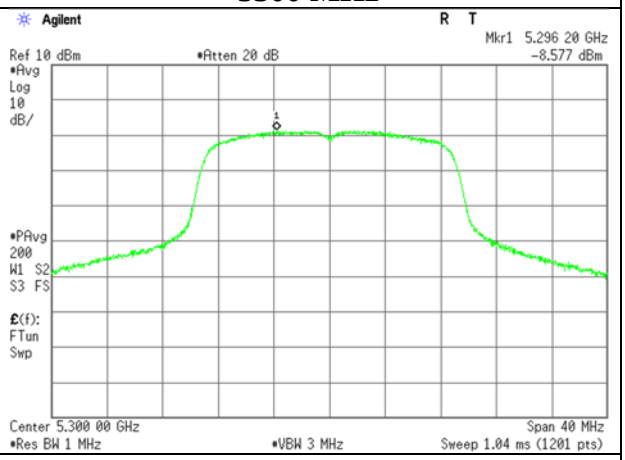
5260 MHz



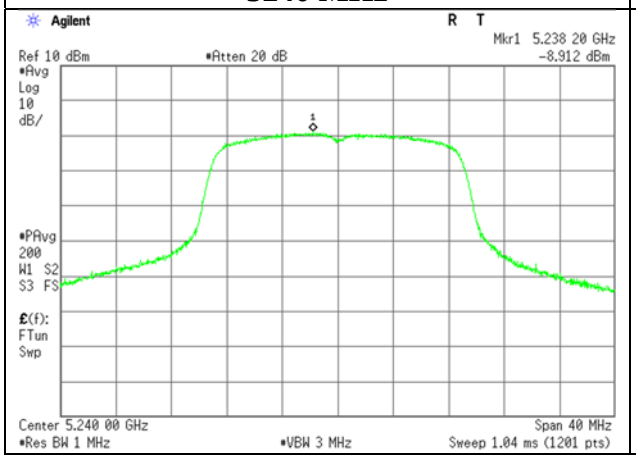
5200 MHz



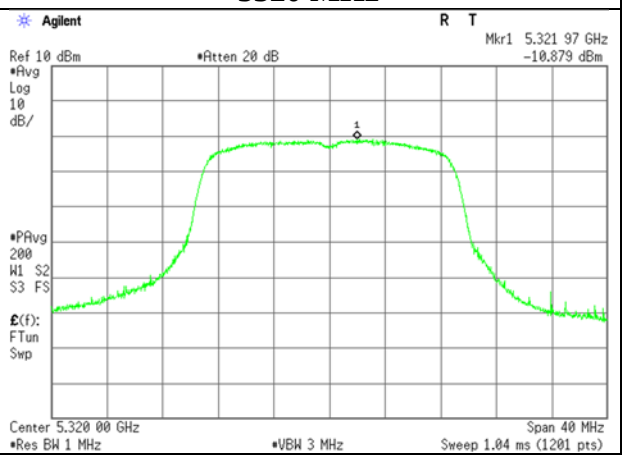
5300 MHz



5240 MHz



5320 MHz

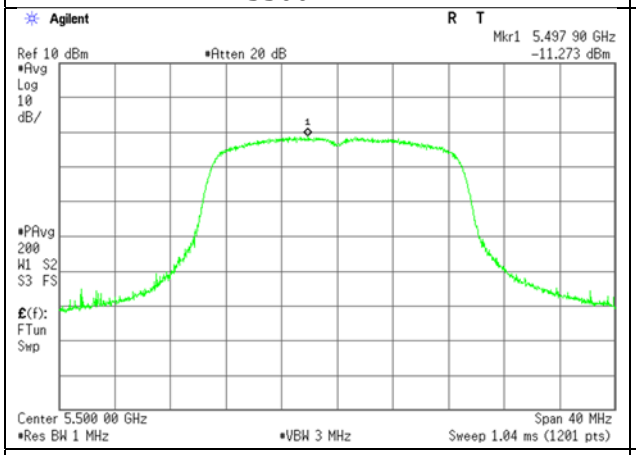


Maximum Power Spectral Density

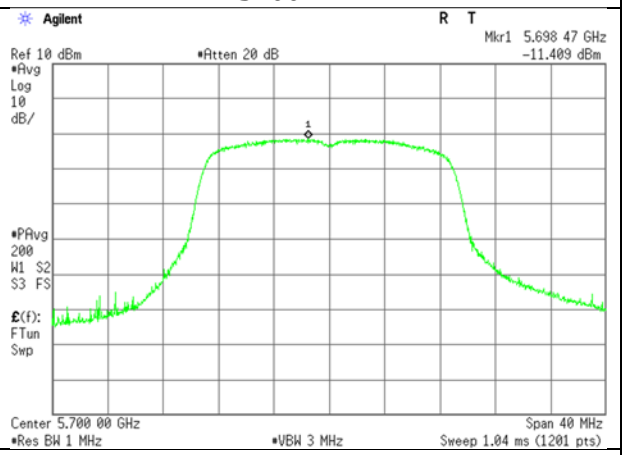
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11ac-20	

11ac-20

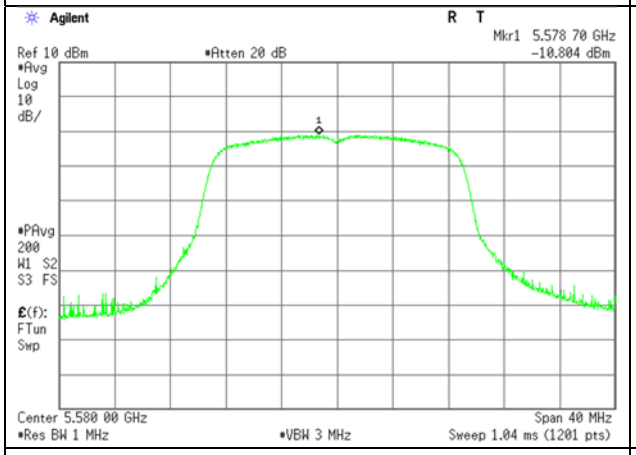
5500 MHz



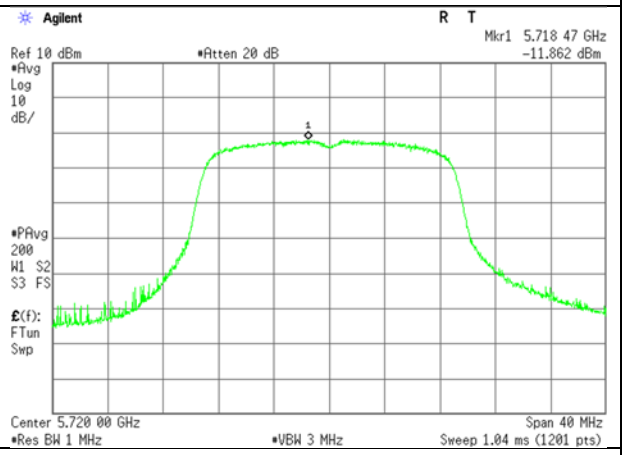
5700 MHz



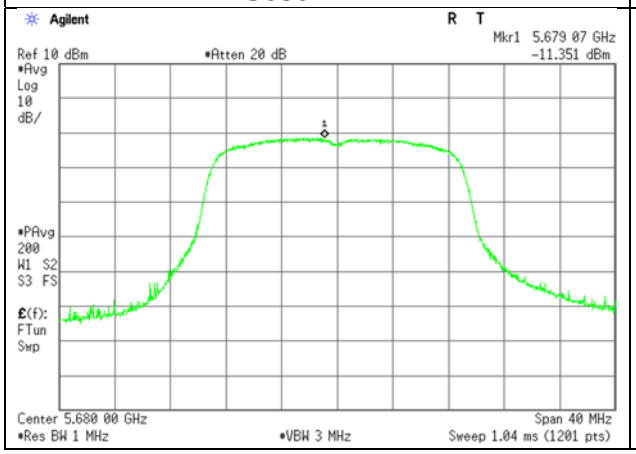
5580 MHz



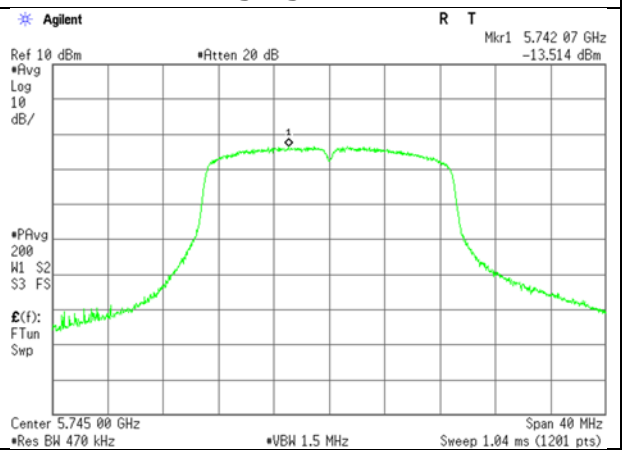
5720 MHz



5680 MHz



5745 MHz

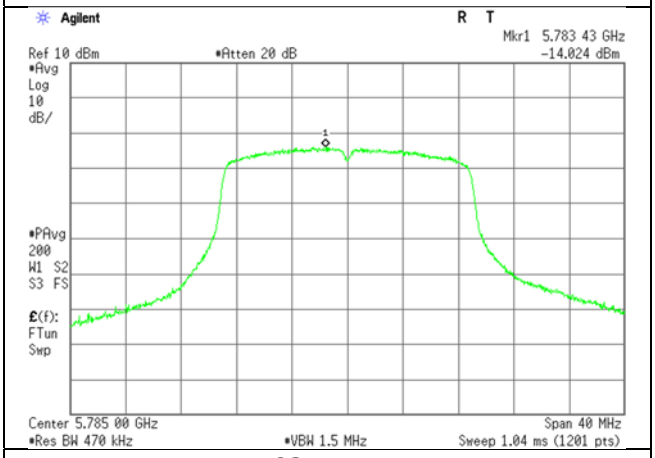


Maximum Power Spectral Density

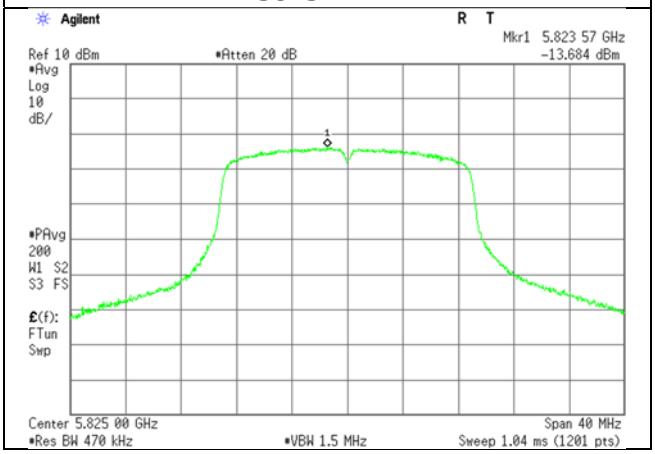
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11ac-20	

11ac-20

5785 MHz



5825 MHz

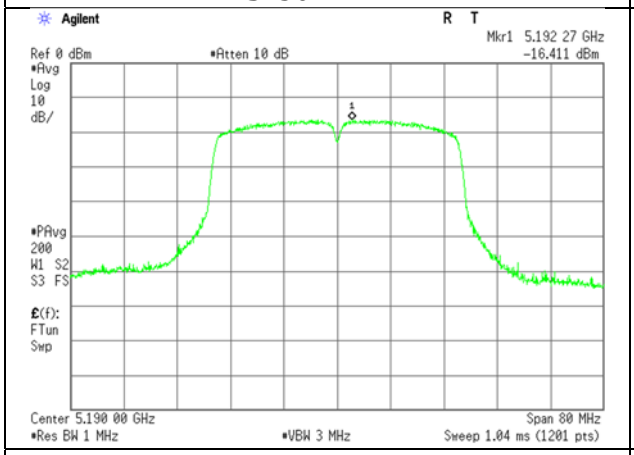


Maximum Power Spectral Density

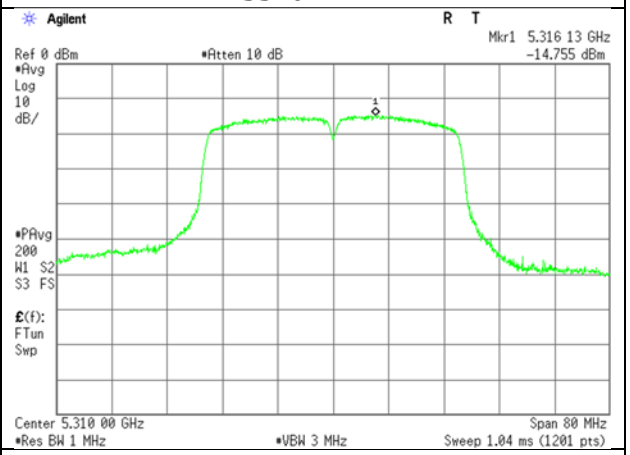
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 54 % RH	25 deg. C / 39 % RH
Engineer	Hiroyuki Furutaka	Takafumi Noguchi
Mode	Tx 11n-40	

11n-40

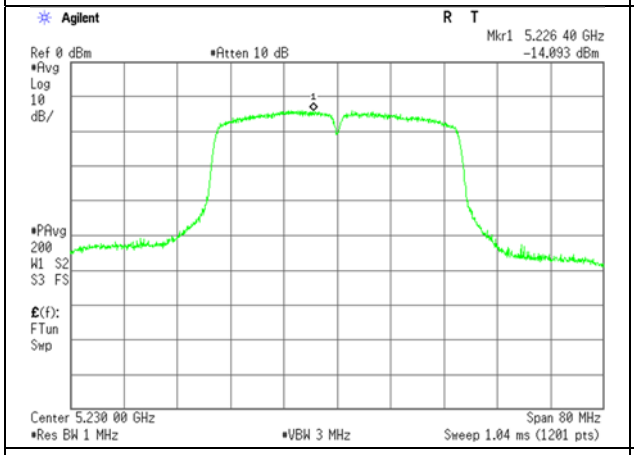
5190 MHz



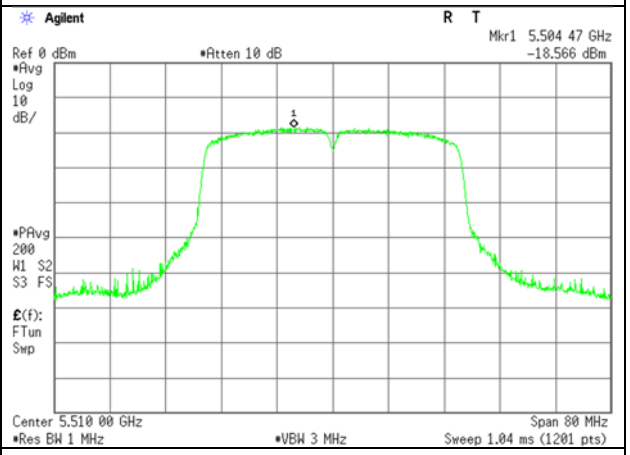
5310 MHz



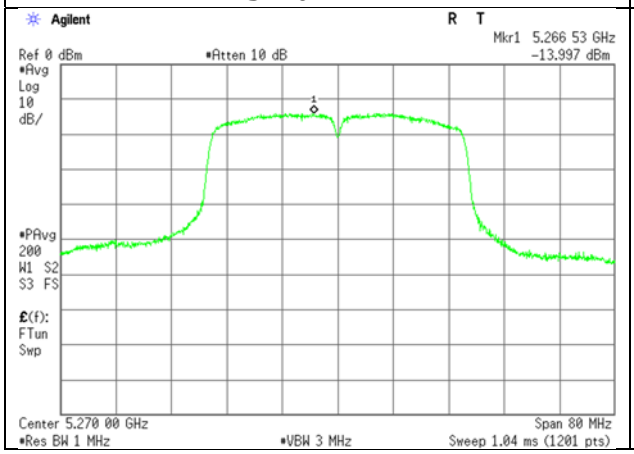
5230 MHz



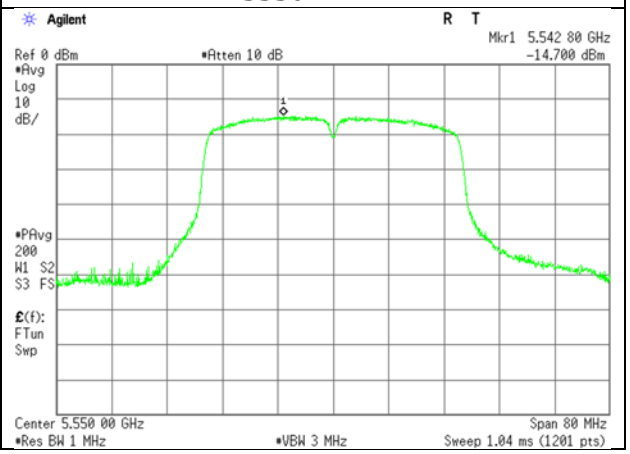
5510 MHz



5270 MHz



5550 MHz

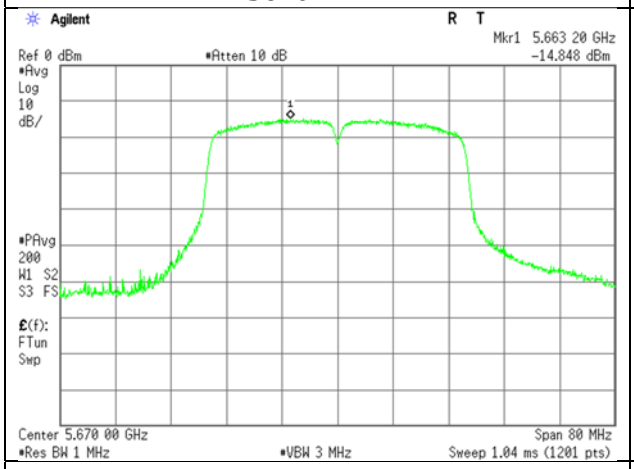


Maximum Power Spectral Density

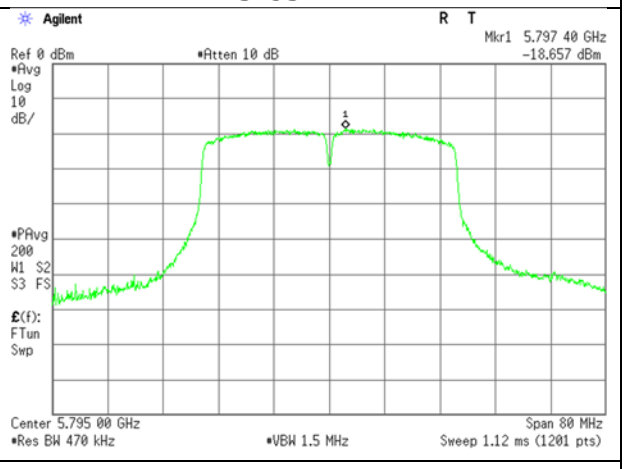
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11n-40	

11n-40

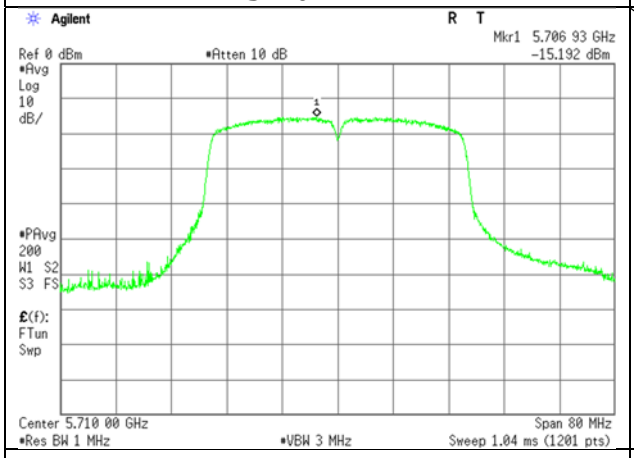
5670 MHz



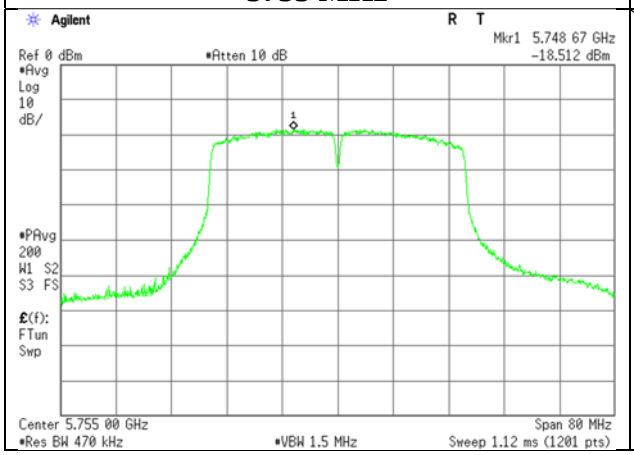
5795 MHz



5710 MHz



5755 MHz

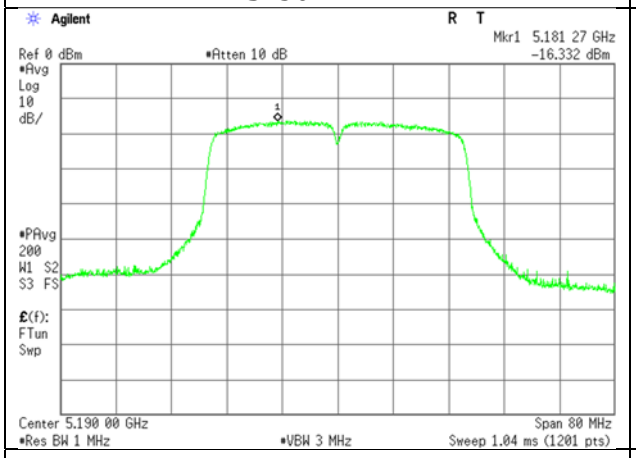


Maximum Power Spectral Density

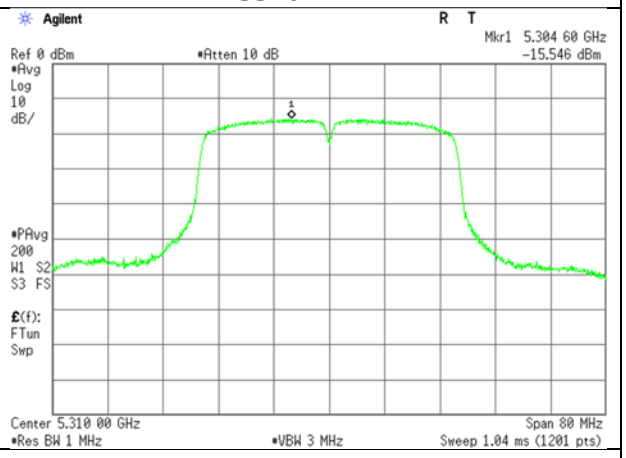
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 54 % RH	25 deg. C / 39 % RH
Engineer	Hiroyuki Furutaka	Takafumi Noguchi
Mode	Tx 11ac-40	

11ac-40

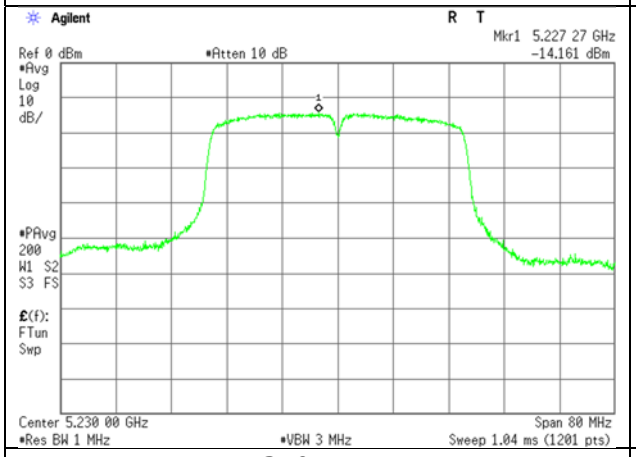
5190 MHz



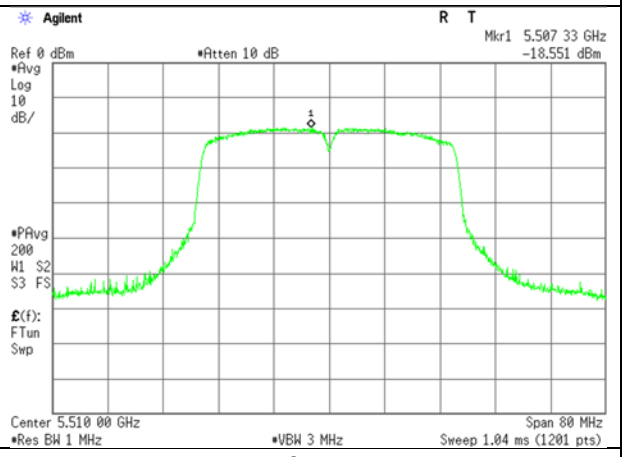
5310 MHz



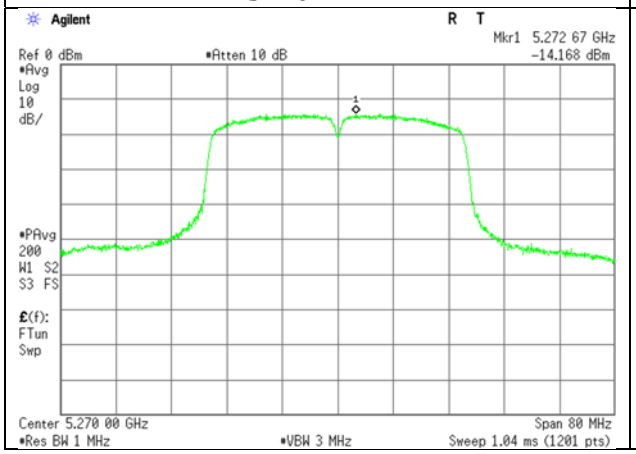
5230 MHz



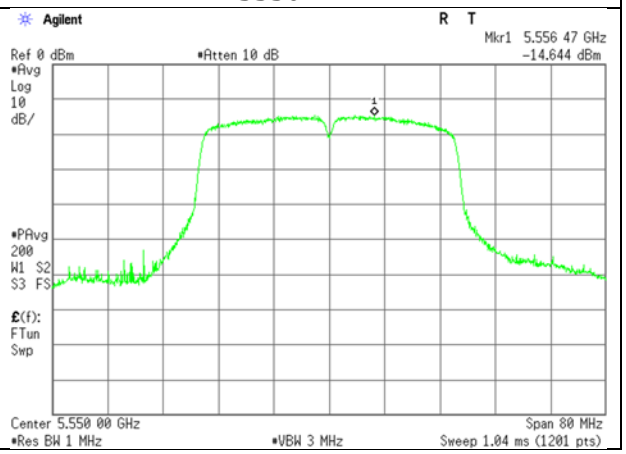
5510 MHz



5270 MHz



5550 MHz

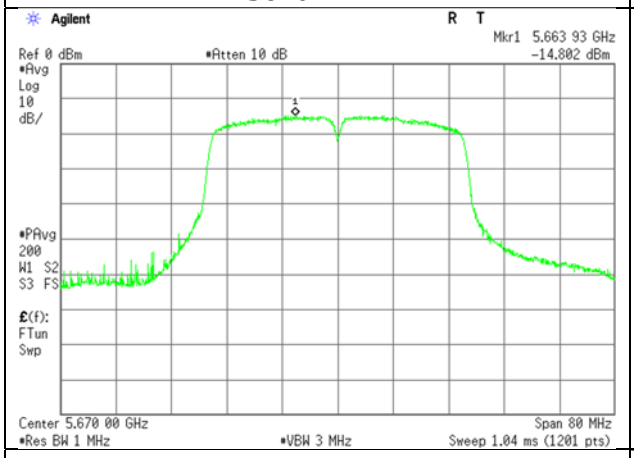


Maximum Power Spectral Density

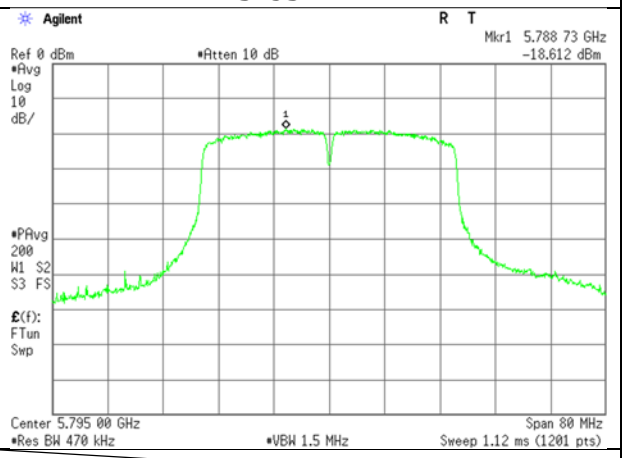
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 21, 2020
Temperature / Humidity	19 deg. C / 54 % RH	19 deg. C / 54 % RH
Engineer	Hiroyuki Furutaka	Hiroyuki Furutaka
Mode	Tx 11ac-40	

11ac-40

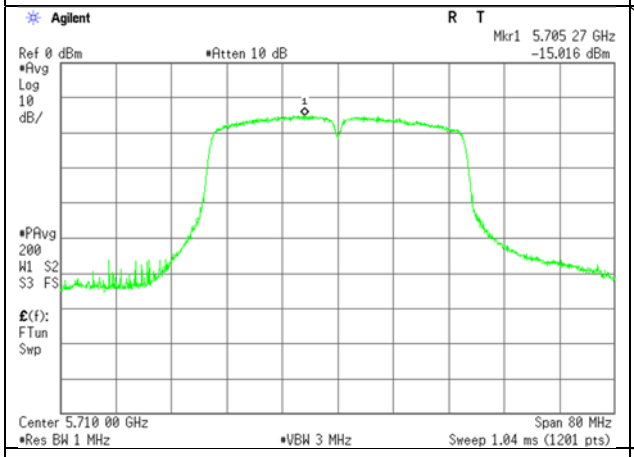
5670 MHz



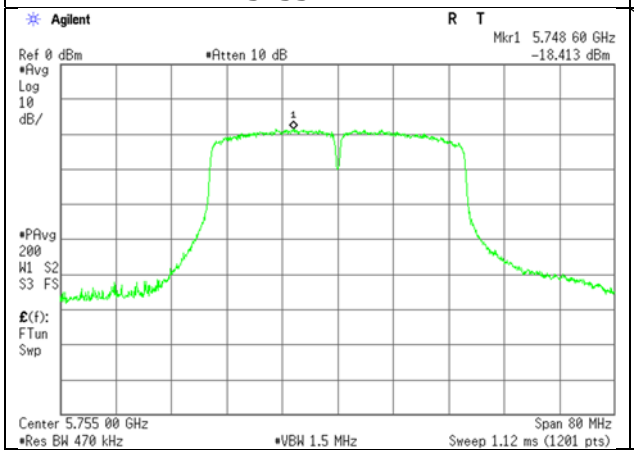
5795 MHz



5710 MHz



5755 MHz

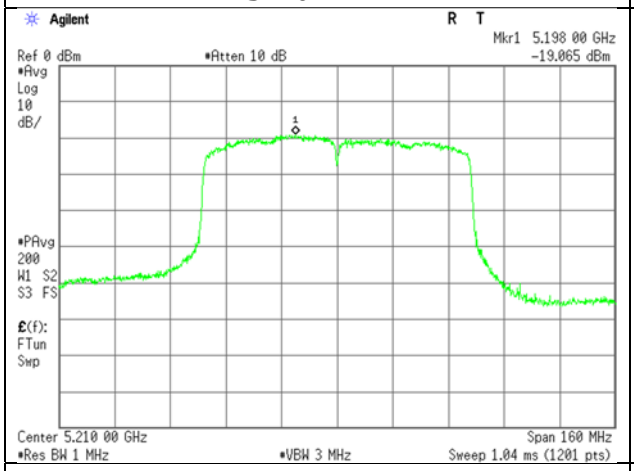


Maximum Power Spectral Density

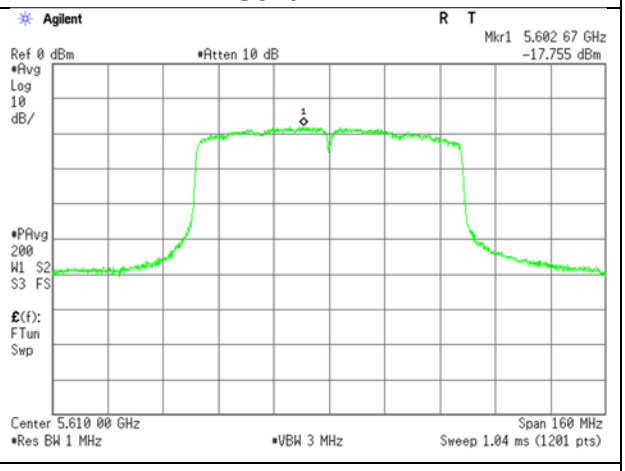
Report No.	13521383H	
Test place	Ise EMC Lab. No.6 Measurement Room	
Date	October 21, 2020	October 30, 2020
Temperature / Humidity	19 deg. C / 54 % RH	25 deg. C / 39 % RH
Engineer	Hiroyuki Furutaka	Takafumi Noguchi
Mode	Tx 11ac-80	

11ac-80

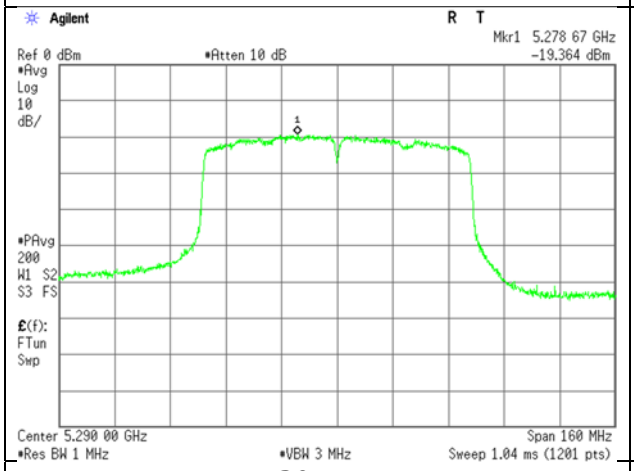
5210 MHz



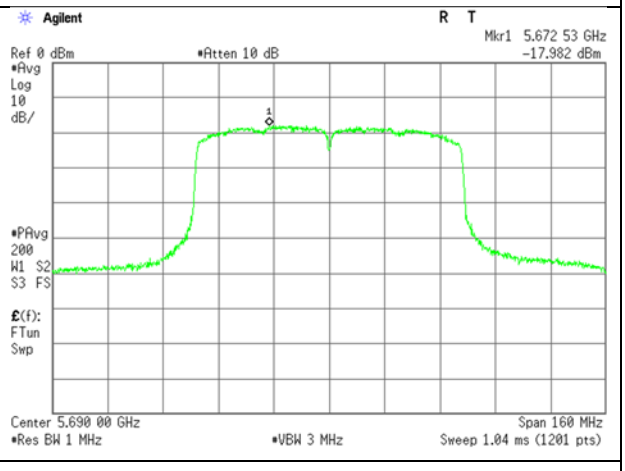
5610 MHz



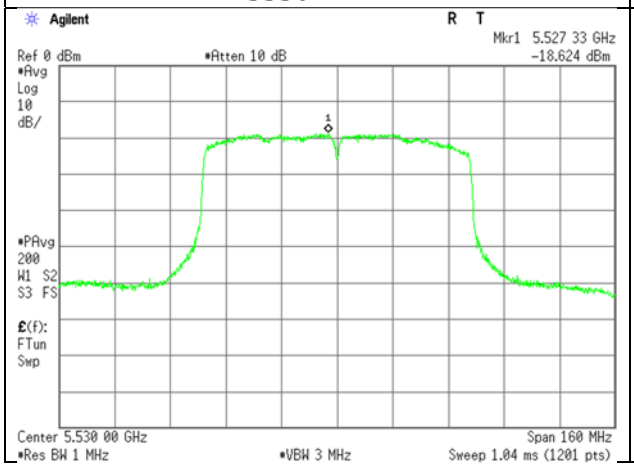
5290 MHz



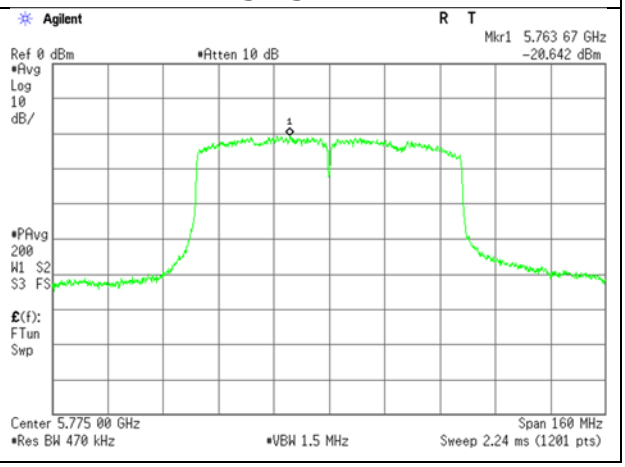
5690 MHz



5530 MHz



5775MHz



Radiated Spurious Emission

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	20 deg. C / 44 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Yuta Moriya	Takeshi Hiyaji	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11a 5180 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5150.0	58.0	35.5	32.4	7.0	31.2	-	66.2	43.7	73.9	53.9	7.7	10.2	*1)
Hori.	10360.0	50.6	-	39.8	-2.5	32.9	-	54.9	-	68.2	-	13.3	-	
Hori.	15540.0	44.1	33.8	38.2	-1.2	32.5	-	48.6	38.4	73.9	53.9	25.3	15.5	Floor noise
Hori.	20720.0	47.8	43.0	38.0	-2.0	33.0	-	50.9	46.1	73.9	53.9	23.1	7.9	
Hori.	31080.0	68.6	-	43.5	3.3	75.9	-	39.4	-	68.2	-	28.8	-	
Vert.	5150.0	57.6	35.0	32.4	7.0	31.2	-	65.8	43.2	73.9	53.9	8.1	10.7	*1)
Vert.	10360.0	48.4	-	39.8	-2.5	32.9	-	52.8	-	68.2	-	15.4	-	
Vert.	15540.0	42.0	33.6	38.2	-1.2	32.5	-	46.5	38.1	73.9	53.9	27.4	15.8	Floor noise
Vert.	20720.0	48.6	43.6	38.0	-2.0	33.0	-	51.7	46.7	73.9	53.9	22.3	7.3	
Vert.	31080.0	67.8	-	43.5	3.3	75.9	-	38.7	-	68.2	-	29.5	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

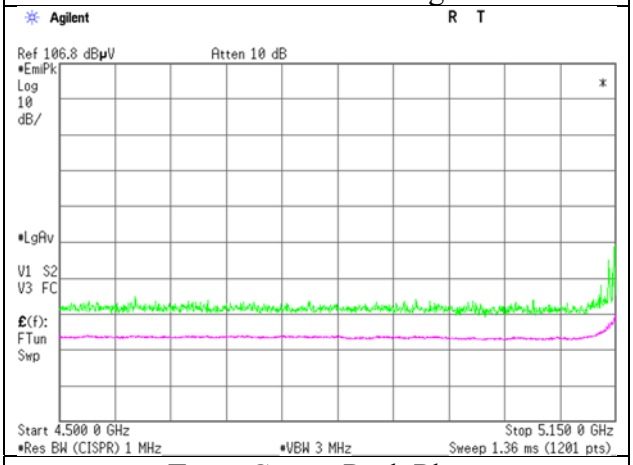
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11a 5180 MHz

Horizontal

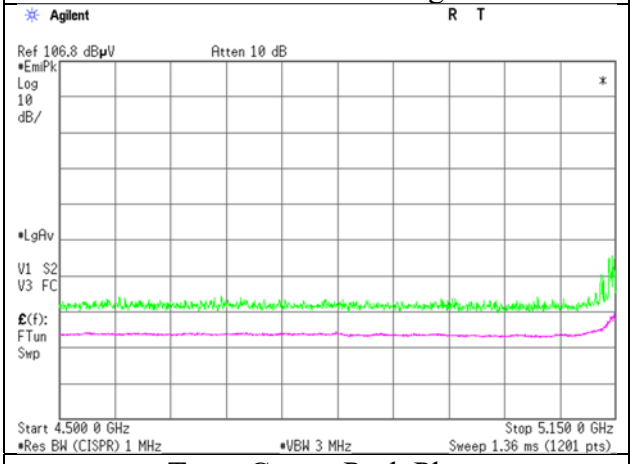
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11a 5200 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP) Reading (PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP) Result (PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP) Limit (PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP) Margin (PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5150.0	50.2	31.9	32.4	7.0	31.2	-	58.4	40.2	73.9	53.9	15.5	13.8	*1)
Vert.	5150.0	49.8	32.0	32.4	7.0	31.2	-	58.0	40.2	73.9	53.9	15.9	13.7	*1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

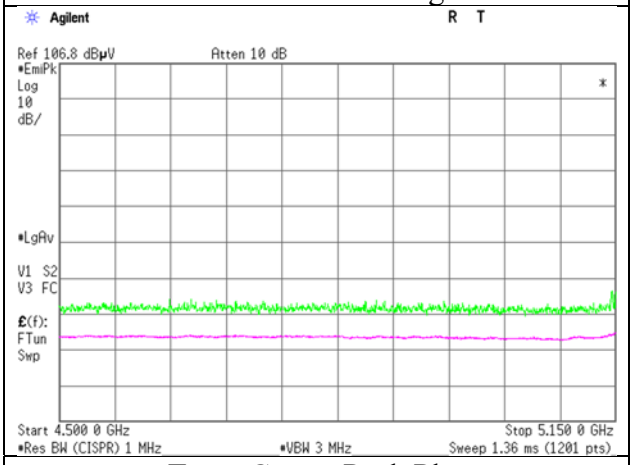
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	Ise EMC Lab.
Date	No.4
Temperature / Humidity	October 26, 2020
Engineer	20 deg. C / 44 % RH
	Yuta Moriya
Mode	Tx 11a 5200 MHz

Horizontal

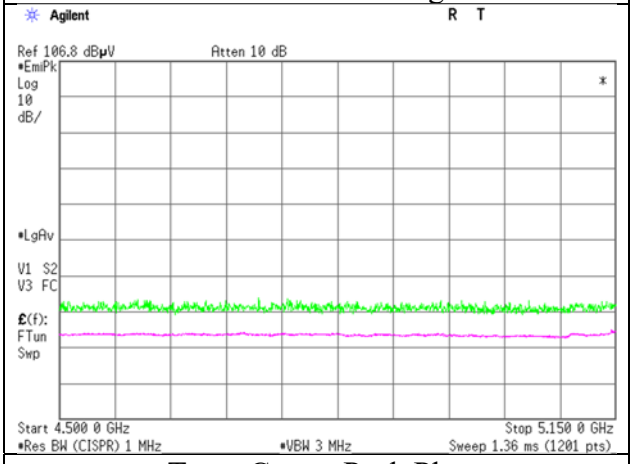
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	20 deg. C / 44 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Yuta Moriya	Takeshi Hiyaji	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11a 5260 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	10520.0	51.1	-	39.9	-2.5	33.0	-	55.5	-	68.2	-	12.7	-	
Hori.	15780.0	43.9	33.5	37.5	-1.2	32.5	-	47.7	37.3	73.9	53.9	26.2	16.6	Floor noise
Hori.	21040.0	47.0	40.6	38.1	-1.9	33.1	-	50.1	43.7	73.9	53.9	23.8	10.2	
Hori.	31560.0	65.7	54.7	43.7	3.4	75.0	-	37.7	26.7	73.9	53.9	36.2	-	
Vert.	10520.0	49.7	-	39.9	-2.5	33.0	-	54.1	-	68.2	-	14.1	-	
Vert.	15780.0	41.6	33.4	37.5	-1.2	32.5	-	45.4	37.3	73.9	53.9	28.5	16.6	Floor noise
Vert.	21040.0	47.6	42.1	38.1	-1.9	33.1	-	50.7	45.2	73.9	53.9	23.2	8.7	
Vert.	31560.0	67.1	55.6	43.7	3.4	75.0	-	39.2	27.6	73.9	53.9	34.7	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11a 5300 MHz

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5350.0	48.6	32.1	31.8	7.1	31.2	-	56.2	39.7	73.9	53.9	17.7	14.2	*1)
Vert.	5350.0	49.1	32.2	31.8	7.1	31.2	-	56.7	39.9	73.9	53.9	17.2	14.1	*1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

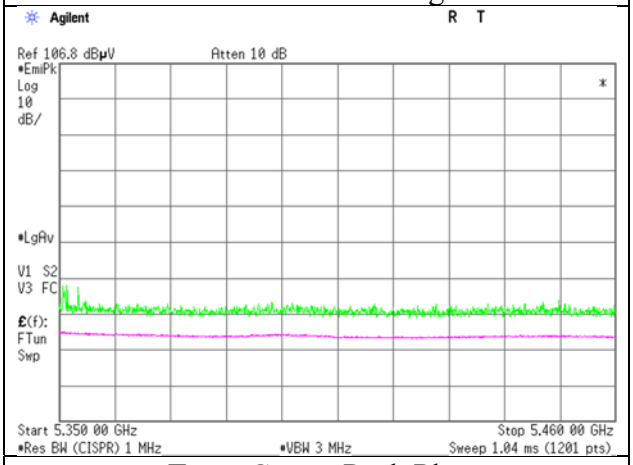
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11a 5300 MHz

Horizontal

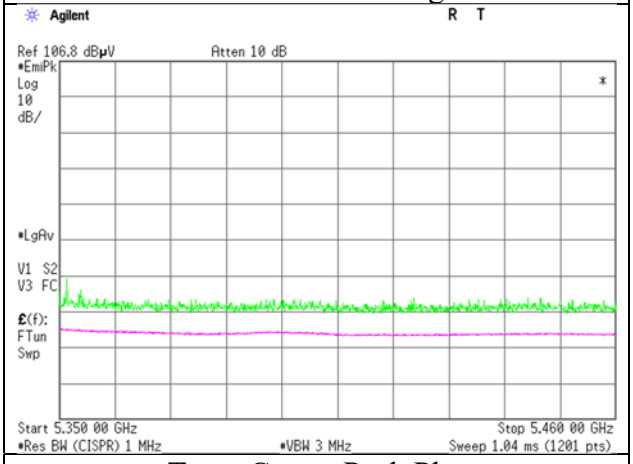
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	20 deg. C / 44 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Yuta Moriya	Takeshi Hiyaji	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11a 5320 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5350.0	57.2	34.4	31.8	7.1	31.2	-	64.9	42.0	73.9	53.9	9.1	11.9	*1)
Hori.	10640.0	51.4	43.7	39.7	-2.4	33.0	-	55.7	48.0	73.9	53.9	18.2	5.9	
Hori.	15960.0	43.4	33.8	37.8	-1.1	32.6	-	47.5	37.9	73.9	53.9	26.4	16.0	Floor noise
Hori.	21280.0	47.2	41.2	38.2	-1.9	33.1	-	50.4	44.4	73.9	53.9	23.5	9.5	
Hori.	31920.0	66.6	-	43.7	3.4	74.3	-	39.4	-	68.2	-	28.8	-	
Vert.	5350.0	56.3	34.0	31.8	7.1	31.2	-	64.0	41.7	73.9	53.9	9.9	12.2	*1)
Vert.	10640.0	49.4	43.2	39.7	-2.4	33.0	-	53.7	47.5	73.9	53.9	20.2	6.4	
Vert.	15960.0	44.1	33.7	37.8	-1.1	32.6	-	48.2	37.7	73.9	53.9	25.8	16.2	Floor noise
Vert.	21280.0	47.0	40.4	38.2	-1.9	33.1	-	50.2	43.6	73.9	53.9	23.7	10.3	
Vert.	31920.0	65.9	-	43.7	3.4	74.3	-	38.7	-	68.2	-	29.5	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

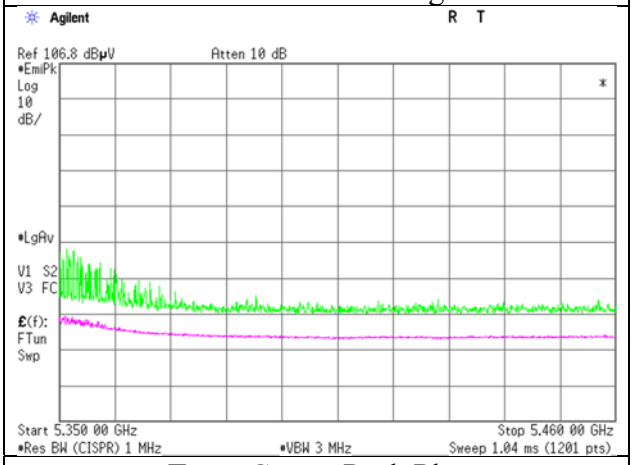
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11a 5320 MHz

Horizontal

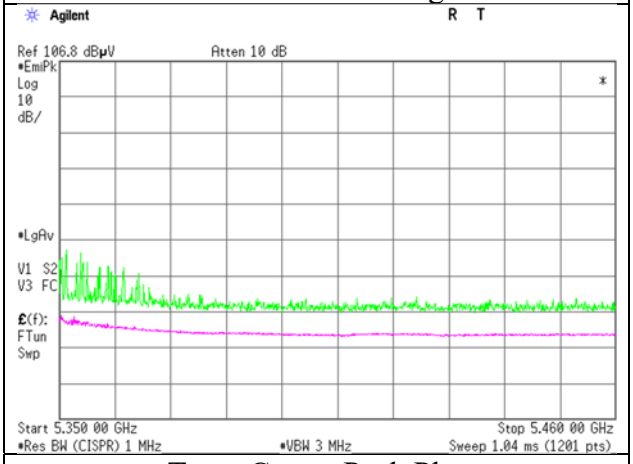
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Takeshi Hiyaji	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11a 5500 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3666.7	45.6	39.7	29.2	6.3	31.4	-	49.6	43.7	73.9	53.9	24.3	10.2	
Hori.	5460.0	53.0	33.8	32.1	7.2	31.3	-	61.0	41.8	68.2	53.9	7.3	12.2	*1)
Hori.	5470.0	56.0	-	32.1	7.2	31.3	-	64.0	-	68.2	-	4.2	-	*1)
Hori.	11000.0	50.4	41.8	40.0	-2.2	33.2	-	55.0	46.4	73.9	53.9	18.9	7.6	
Hori.	16500.0	44.0	-	40.4	-1.0	32.6	-	50.9	-	68.2	-	17.4	-	Floor noise
Hori.	22000.0	48.8	42.5	38.3	-1.8	33.1	-	52.2	45.9	73.9	53.9	21.7	8.0	
Hori.	33000.0	67.6	-	43.8	3.8	75.1	-	40.1	-	68.2	-	28.1	-	
Vert.	3666.7	46.1	40.3	29.2	6.3	31.4	-	50.1	44.3	73.9	53.9	23.8	9.6	
Vert.	5460.0	52.1	33.8	32.1	7.2	31.3	-	60.0	41.7	68.2	53.9	8.2	12.2	*1)
Vert.	5470.0	57.5	-	32.1	7.2	31.3	-	65.5	-	68.2	-	2.7	-	*1)
Vert.	11000.0	49.1	41.1	40.0	-2.2	33.2	-	53.7	45.7	73.9	53.9	20.2	8.3	
Vert.	16500.0	44.1	-	40.4	-1.0	32.6	-	50.9	-	68.2	-	17.3	-	Floor noise
Vert.	22000.0	47.9	41.3	38.3	-1.8	33.1	-	51.3	44.7	73.9	53.9	22.6	9.2	
Vert.	33000.0	67.3	-	43.8	3.8	75.1	-	39.8	-	68.2	-	28.4	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

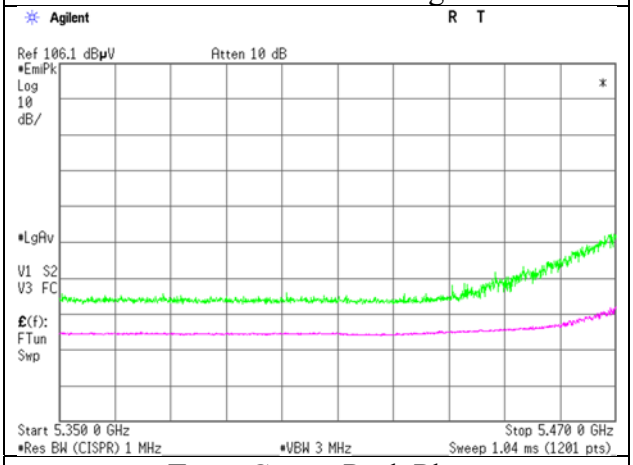
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11a 5500 MHz

Horizontal

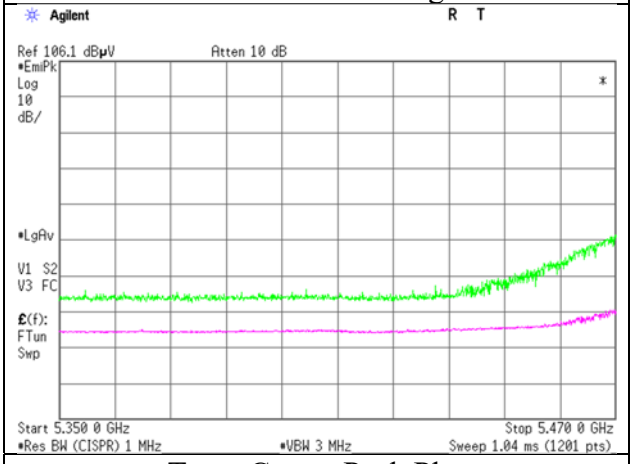
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Takeshi Hiyaji	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11a 5580 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5460.0	41.2	30.3	32.1	6.1	31.3	-	48.2	37.2	68.2	53.9	20.1	16.7	*1)
Hori.	5470.0	40.5	-	32.1	6.1	31.3	-	47.5	-	68.2	-	20.7	-	*1)
Hori.	11160.0	51.9	42.8	39.6	-2.2	33.1	-	56.2	47.0	73.9	53.9	17.7	6.9	
Hori.	16740.0	44.0	-	39.8	-1.0	32.6	-	50.3	-	68.2	-	17.9	-	Floor noise
Hori.	22320.0	47.7	41.9	38.3	-1.7	33.2	-	51.2	45.4	73.9	53.9	22.8	8.6	
Hori.	33480.0	67.3	-	43.7	3.9	75.5	-	39.4	-	68.2	-	28.8	-	
Vert.	5460.0	41.2	30.7	32.1	6.1	31.3	-	48.1	37.6	68.2	53.9	20.1	16.3	*1)
Vert.	5470.0	41.0	-	32.1	6.1	31.3	-	48.0	-	68.2	-	20.2	-	*1)
Vert.	11160.0	51.1	42.0	39.6	-2.2	33.1	-	55.4	46.2	73.9	53.9	18.5	7.7	
Vert.	16740.0	41.5	-	39.8	-1.0	32.6	-	47.8	-	68.2	-	20.4	-	Floor noise
Vert.	22320.0	47.7	41.4	38.3	-1.7	33.2	-	51.2	44.9	73.9	53.9	22.8	9.1	
Vert.	33480.0	67.6	-	43.7	3.9	75.5	-	39.6	-	68.2	-	28.6	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

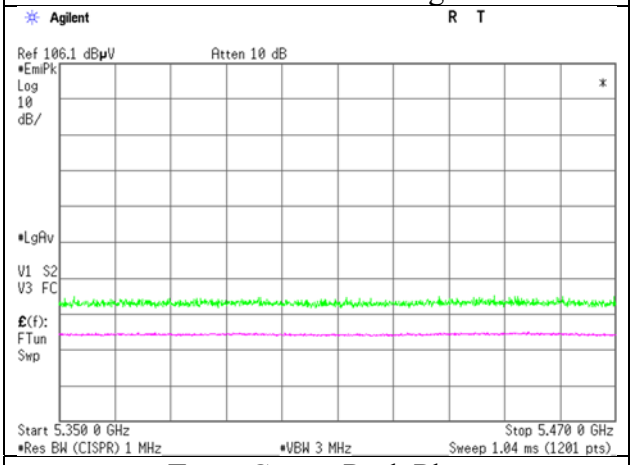
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11a 5580 MHz

Horizontal

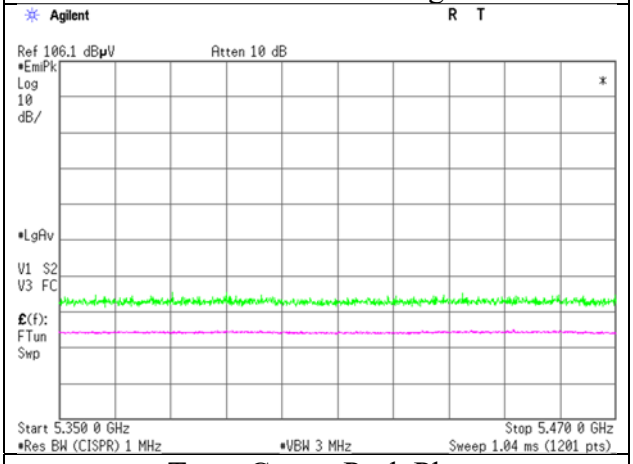
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11a 5680 MHz

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3786.6	43.4	36.4	29.4	5.5	31.4	-	47.0	39.9	73.9	53.9	26.9	14.0	
Hori.	5725.0	47.4	-	32.5	6.2	31.3	-	54.8	-	68.2	-	13.4	-	*1)
Vert.	3786.6	44.1	37.8	29.4	5.5	31.4	-	47.7	41.3	73.9	53.9	26.3	12.6	
Vert.	5725.0	48.8	-	32.5	6.2	31.3	-	56.2	-	68.2	-	12.1	-	*1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

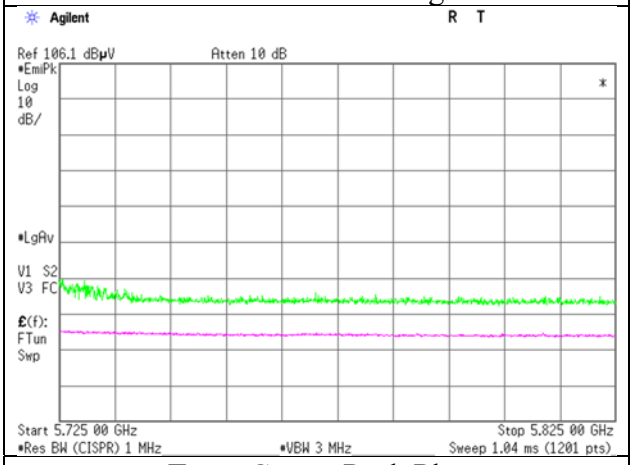
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11a 5680 MHz

Horizontal

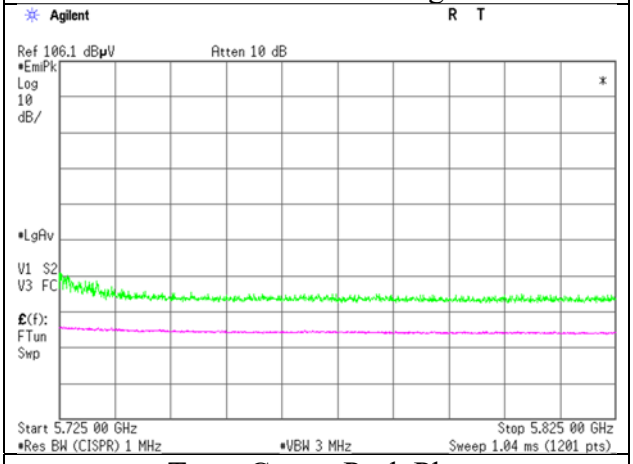
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi (1 GHz - 10 GHz)	Takeshi Hiyaji (10 GHz - 18 GHz)	Hiroyuki Furutaka (18 GHz - 26.5 GHz)	Junki Nagatomi (26.5 GHz - 40 GHz)
Mode	Tx 11a 5700 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3800.0	42.7	35.5	29.5	5.5	31.4	-	46.3	39.1	73.9	53.9	27.6	14.8	
Hori.	5725.0	58.5	-	32.5	6.2	31.3	-	65.9	-	68.2	-	2.3	-	*1)
Hori.	11400.0	48.8	36.0	40.0	-2.2	33.1	-	53.5	40.7	73.9	53.9	20.4	13.2	
Hori.	17100.0	44.7	-	41.2	-0.8	32.6	-	52.5	-	68.2	-	15.7	-	Floor noise
Hori.	22800.0	47.0	41.2	38.4	-1.5	33.3	-	50.6	44.8	73.9	53.9	23.3	9.1	
Hori.	34200.0	70.5	-	43.6	4.1	76.1	-	42.1	-	68.2	-	26.2	-	
Vert.	3800.0	43.2	35.8	29.5	5.5	31.4	-	46.8	39.4	73.9	53.9	27.1	14.5	
Vert.	5725.0	58.6	-	32.5	6.2	31.3	-	66.0	-	68.2	-	2.3	-	*1)
Vert.	11400.0	46.7	38.0	40.0	-2.2	33.1	-	51.4	42.6	73.9	53.9	22.5	11.3	
Vert.	17100.0	44.9	-	41.2	-0.8	32.6	-	52.7	-	68.2	-	15.5	-	Floor noise
Vert.	22800.0	48.3	41.1	38.4	-1.5	33.3	-	51.9	44.7	73.9	53.9	22.0	9.2	
Vert.	34200.0	70.2	-	43.6	4.1	76.1	-	41.7	-	68.2	-	26.5	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

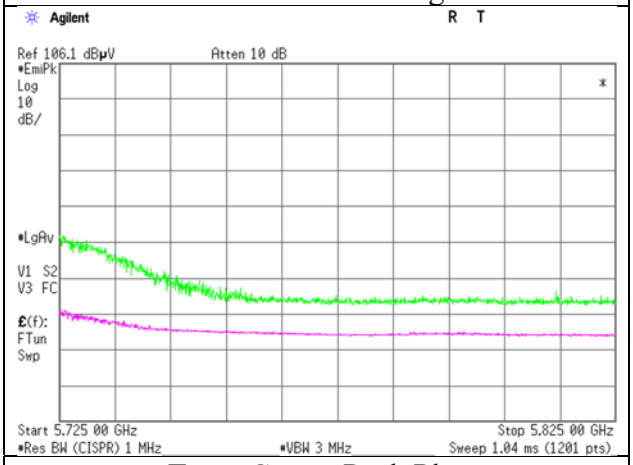
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11a 5700 MHz

Horizontal

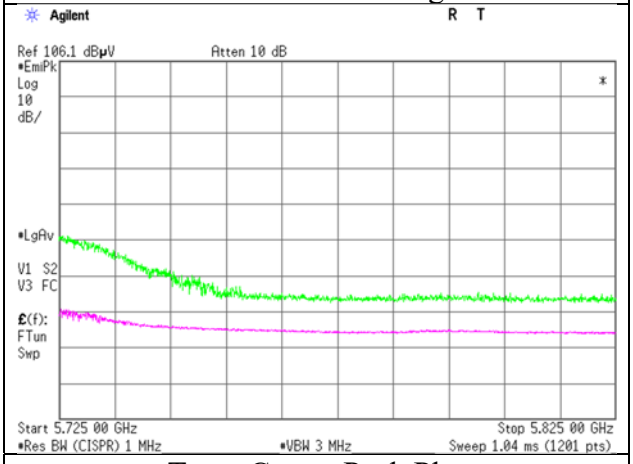
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Takeshi Hiyaji	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11a 5745 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3829.9	43.4	35.5	29.6	5.5	31.4	-	47.2	39.2	73.9	53.9	26.7	14.7	
Hori.	5650.0	40.9	-	32.3	6.2	31.3	-	48.1	-	68.2	-	20.1	-	
Hori.	5700.0	49.9	-	32.4	6.2	31.3	-	57.2	-	105.2	-	48.0	-	
Hori.	5720.0	59.5	-	32.4	6.2	31.3	-	66.9	-	110.8	-	43.9	-	
Hori.	5725.0	62.1	-	32.5	6.2	31.3	-	69.5	-	122.2	-	52.7	-	*1)
Hori.	11490.0	47.5	38.2	39.9	-2.3	33.1	-	52.0	42.8	73.9	53.9	21.9	11.1	
Hori.	17235.0	45.1	-	41.4	-0.8	32.6	-	53.1	-	68.2	-	15.1	-	Floor noise
Hori.	22980.0	48.0	41.6	38.5	-1.5	33.3	-	51.7	45.3	73.9	53.9	22.2	8.6	
Hori.	34470.0	70.3	-	43.5	4.1	76.1	-	41.9	-	68.2	-	26.3	-	
Vert.	3829.9	43.2	35.6	29.6	5.5	31.4	-	47.0	39.3	73.9	53.9	26.9	14.6	
Vert.	5650.0	41.5	-	32.3	6.2	31.3	-	48.7	-	68.2	-	19.5	-	
Vert.	5700.0	51.1	-	32.4	6.2	31.3	-	58.4	-	105.2	-	46.8	-	
Vert.	5720.0	60.1	-	32.4	6.2	31.3	-	67.5	-	110.8	-	43.3	-	
Vert.	5725.0	62.9	-	32.5	6.2	31.3	-	70.3	-	122.2	-	51.9	-	*1)
Vert.	11490.0	46.3	37.4	39.9	-2.3	33.1	-	50.8	41.9	73.9	53.9	23.1	12.0	
Vert.	17235.0	42.1	-	41.4	-0.8	32.6	-	50.1	-	68.2	-	18.2	-	Floor noise
Vert.	22980.0	47.0	40.2	38.5	-1.5	33.3	-	50.7	43.9	73.9	53.9	23.2	10.0	
Vert.	34470.0	70.1	-	43.5	4.1	76.1	-	41.6	-	68.2	-	26.6	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

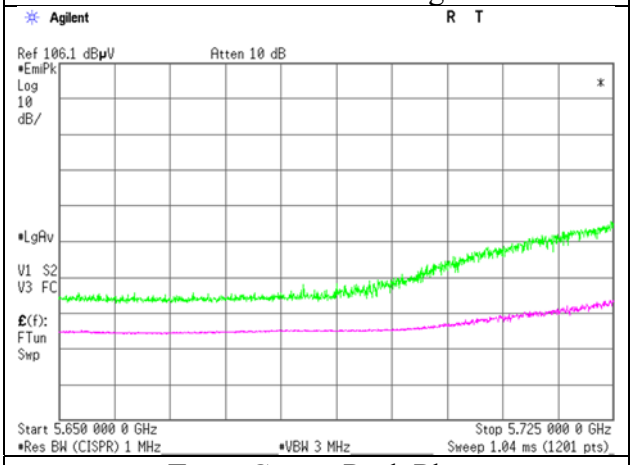
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11a 5745 MHz

Horizontal

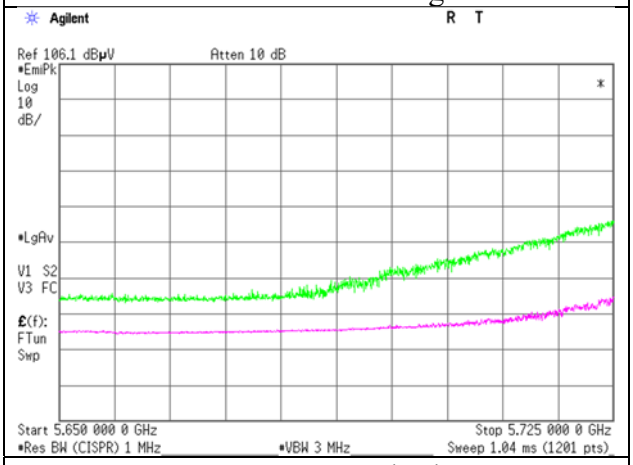
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi (1 GHz - 10 GHz)	Takeshi Hiyaji (10 GHz - 18 GHz)	Hiroyuki Furutaka (18 GHz - 26.5 GHz)	Junki Nagatomi (26.5 GHz - 40 GHz)
Mode	Tx 11a 5785 MHz			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP) Reading (PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP) Result (PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP) Limit (PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP) Margin (PK) [dB]	Margin (AV) [dB]	Remark
Hori.	3856.6	43.4	36.1	29.7	5.6	31.4	-	47.3	40.0	73.9	53.9	26.6	13.9	
Hori.	11570.0	46.2	37.3	39.7	-2.3	33.0	-	50.6	41.7	73.9	53.9	23.3	12.2	
Hori.	17355.0	43.9	-	42.4	-0.7	32.6	-	53.0	-	68.2	-	15.2	-	Floor noise
Hori.	23140.0	48.0	41.8	38.6	-1.5	33.3	-	51.8	45.6	73.9	53.9	22.1	8.3	
Hori.	34710.0	70.6	-	43.5	4.2	76.2	-	42.1	-	68.2	-	26.1	-	
Vert.	3856.6	43.1	35.7	29.7	5.6	31.4	-	47.0	39.7	73.9	53.9	26.9	14.2	
Vert.	11570.0	44.8	36.4	39.7	-2.3	33.0	-	49.3	40.9	73.9	53.9	24.6	13.1	
Vert.	17355.0	41.2	-	42.4	-0.7	32.6	-	50.3	-	68.2	-	17.9	-	Floor noise
Vert.	23140.0	47.4	39.8	38.6	-1.5	33.3	-	51.2	43.6	73.9	53.9	22.7	10.3	
Vert.	34710.0	70.6	-	43.5	4.2	76.2	-	42.1	-	68.2	-	26.1	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 30, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	20 deg. C / 49 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Takeshi Hiyaji	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11a 5825 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3883.4	44.7	37.0	29.8	5.6	31.4	-	48.8	41.0	73.9	53.9	25.1	12.9	
Hori.	5850.0	63.1	-	32.7	6.3	31.4	-	70.7	-	122.2	-	51.5	-	
Hori.	5855.0	57.0	-	32.7	6.3	31.4	-	64.6	-	110.8	-	46.2	-	
Hori.	5875.0	48.5	-	32.8	6.3	31.4	-	56.2	-	105.2	-	49.0	-	
Hori.	5925.0	41.2	-	32.9	6.3	31.4	-	49.0	-	68.2	-	19.2	-	
Hori.	11650.0	47.9	38.2	39.3	-2.3	33.0	-	51.9	42.2	73.9	53.9	22.0	11.7	
Hori.	17475.0	44.0	-	43.4	-0.7	32.6	-	54.1	-	68.2	-	14.1	-	Floor noise
Hori.	23300.0	48.3	42.0	38.7	-1.4	33.4	-	52.2	45.9	73.9	53.9	21.7	8.0	
Hori.	34950.0	70.7	-	43.5	4.2	76.2	-	42.2	-	68.2	-	26.0	-	
Vert.	3883.4	44.0	36.9	29.8	5.6	31.4	-	48.1	40.9	73.9	53.9	25.8	13.0	
Vert.	5850.0	59.7	-	32.7	6.3	31.4	-	67.3	-	122.2	-	54.9	-	
Vert.	5855.0	57.8	-	32.7	6.3	31.4	-	65.4	-	110.8	-	45.4	-	
Vert.	5875.0	48.5	-	32.8	6.3	31.4	-	56.1	-	105.2	-	49.1	-	
Vert.	5925.0	41.6	-	32.9	6.3	31.4	-	49.4	-	68.2	-	18.8	-	
Vert.	11650.0	46.0	37.9	39.3	-2.3	33.0	-	50.0	41.9	73.9	53.9	23.9	12.0	
Vert.	17475.0	42.2	-	43.4	-0.7	32.6	-	52.3	-	68.2	-	16.0	-	Floor noise
Vert.	23300.0	47.1	40.6	38.7	-1.4	33.4	-	51.0	44.5	73.9	53.9	22.9	9.4	
Vert.	34950.0	68.6	-	43.5	4.2	76.2	-	40.1	-	68.2	-	28.1	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

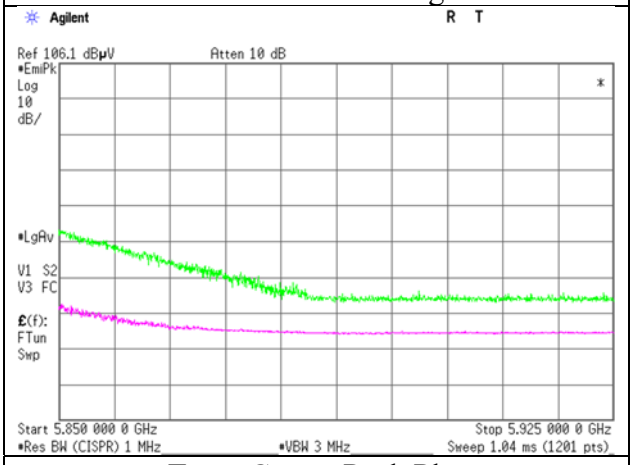
Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11a 5825 MHz

Horizontal

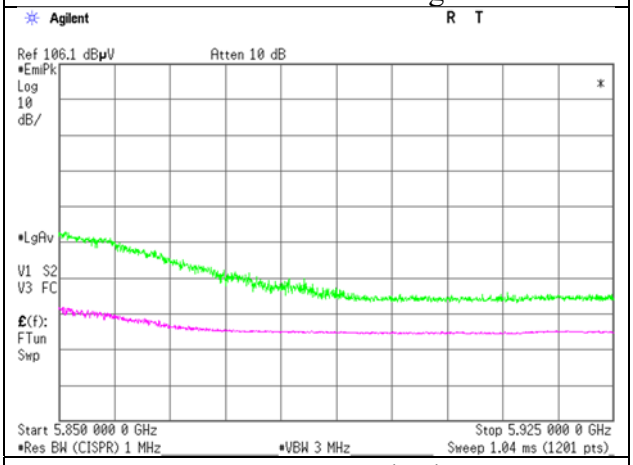
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 25, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Akihiko Maeda	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5180 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5150.0	58.7	41.0	32.4	6.0	31.2	-	65.9	48.2	73.9	53.9	8.0	5.7	*1)
Hori.	10360.0	48.4	41.6	39.8	-2.5	32.9	-	52.8	45.9	73.9	53.9	21.1	8.0	
Hori.	15540.0	43.9	32.3	38.2	-1.2	32.5	-	48.4	36.8	73.9	53.9	25.5	17.1	Floor noise
Hori.	20720.0	48.0	41.4	38.0	-2.0	33.0	-	51.1	44.5	73.9	53.9	22.9	9.5	
Hori.	31080.0	68.8	-	43.5	3.3	75.9	-	39.6	-	68.2	-	28.6	-	
Vert.	5150.0	58.8	41.9	32.4	6.0	31.2	-	66.1	49.2	73.9	53.9	7.8	4.7	*1)
Vert.	10360.0	48.5	41.7	39.8	-2.5	32.9	-	52.9	46.1	73.9	53.9	21.0	7.8	
Vert.	15540.0	43.9	32.3	38.2	-1.2	32.5	-	48.4	36.8	73.9	53.9	25.5	17.1	Floor noise
Vert.	20720.0	48.0	41.0	38.0	-2.0	33.0	-	51.1	44.1	73.9	53.9	22.9	9.9	
Vert.	31080.0	69.1	-	43.5	3.3	75.9	-	40.0	-	68.2	-	28.2	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

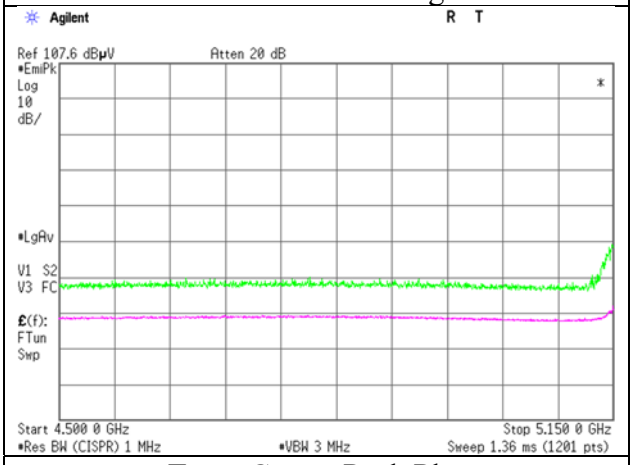
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5180 MHz

Horizontal

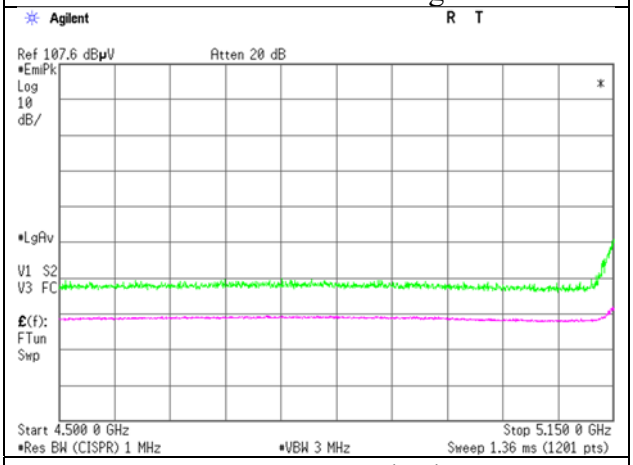
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5200 MHz

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5150.0	52.9	36.4	32.4	6.0	31.2	-	60.1	43.6	73.9	53.9	13.8	10.3	*1)
Vert.	5150.0	52.4	36.2	32.4	6.0	31.2	-	59.7	43.5	73.9	53.9	14.2	10.4	*1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

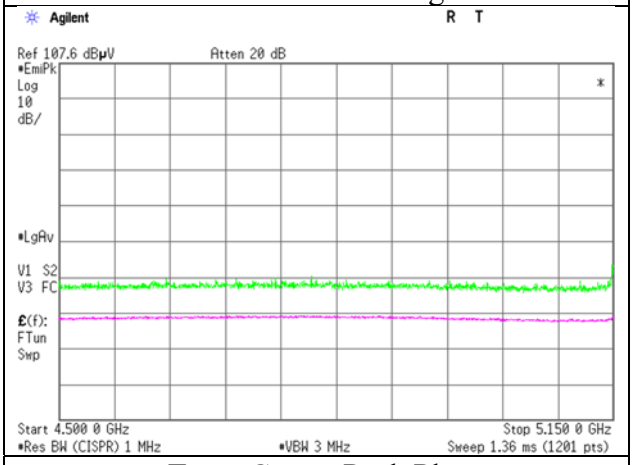
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5200 MHz

Horizontal

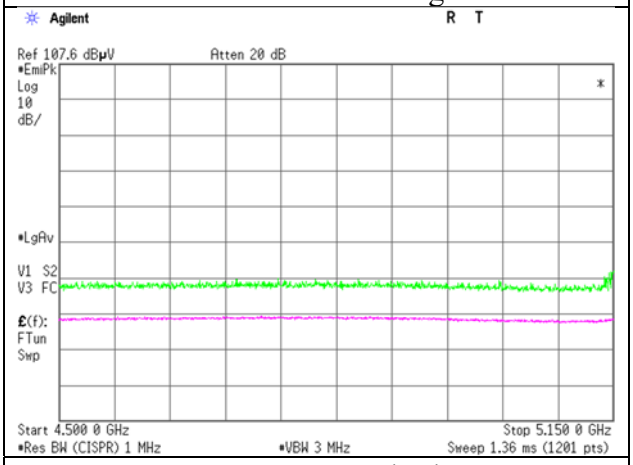
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 25, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Akihiko Maeda	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5260 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	10520.0	51.8	43.8	39.9	-2.5	33.0	-	56.2	48.2	73.9	53.9	17.7	5.7	
Hori.	15780.0	43.2	32.4	37.5	-1.2	32.5	-	47.0	36.2	73.9	53.9	26.9	17.7	Floor noise
Hori.	21040.0	47.9	39.4	38.1	-1.9	33.1	-	51.0	42.5	73.9	53.9	22.9	11.4	
Hori.	31560.0	66.4	55.4	43.7	3.4	75.0	-	38.4	27.4	73.9	53.9	35.5	26.5	
Vert.	10520.0	50.2	43.0	39.9	-2.5	33.0	-	54.6	47.4	73.9	53.9	19.3	6.5	
Vert.	15780.0	43.2	32.4	37.5	-1.2	32.5	-	47.0	36.2	73.9	53.9	26.9	17.7	Floor noise
Vert.	21040.0	47.3	38.4	38.1	-1.9	33.1	-	50.4	41.5	73.9	53.9	23.5	12.4	
Vert.	31560.0	67.2	55.9	43.7	3.4	75.0	-	39.2	27.9	73.9	53.9	34.7	26.0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Report No.	13521383H				
Test place	Ise EMC Lab.				
Semi Anechoic Chamber	No.4	No.4	No.4	No.4	No.4
Date	October 25, 2020	October 31, 2020	November 1, 2020	November 2, 2020	November 3, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH	20 deg. C / 40 % RH
Engineer	Junki Nagatomi (1 GHz - 10 GHz)	Akihiko Maeda (10 GHz - 18 GHz)	Hiroyuki Furutaka (18 GHz - 26.5 GHz)	Junki Nagatomi (26.5 GHz - 40 GHz)	Junya Okuno (Below 1GHz)
Mode	Tx 11ac-20 5300 MHz				

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	30.0	24.3	-	18.4	7.2	32.0	-	17.9	-	40.0	-	22.1	-	
Hori.	95.0	26.7	-	9.3	8.0	31.9	-	12.1	-	43.5	-	31.4	-	
Hori.	190.9	26.3	-	16.3	8.9	31.8	-	19.7	-	43.5	-	23.9	-	
Hori.	275.1	31.8	-	13.2	9.6	31.8	-	22.7	-	46.0	-	23.3	-	
Hori.	366.5	28.8	-	15.2	10.2	31.8	-	22.4	-	46.0	-	23.6	-	
Hori.	477.4	24.3	-	17.1	10.8	31.9	-	20.3	-	46.0	-	25.7	-	
Hori.	5350.0	50.4	35.5	31.8	6.1	31.2	-	57.0	42.2	73.9	53.9	16.9	11.7	*1)
Hori.	10600.0	52.2	44.5	39.9	-2.4	33.0	-	56.7	49.0	73.9	53.9	17.2	4.9	
Hori.	15900.0	43.0	32.2	37.4	-1.1	32.6	-	46.7	35.9	73.9	53.9	27.2	18.0	Floor noise
Hori.	21200.0	48.2	40.2	38.2	-1.9	33.1	-	51.4	43.4	73.9	53.9	22.5	10.5	
Hori.	31800.0	66.6	55.6	43.7	3.4	74.5	-	39.2	28.2	73.9	53.9	34.7	25.7	
Vert.	75.0	40.6	-	6.4	7.8	32.0	-	22.8	-	40.0	-	17.2	-	
Vert.	136.3	38.2	-	14.1	8.4	31.9	-	28.9	-	43.5	-	14.7	-	
Vert.	192.6	32.8	-	16.3	8.9	31.8	-	26.2	-	43.5	-	17.3	-	
Vert.	275.1	37.7	-	13.2	9.6	31.8	-	28.6	-	46.0	-	17.4	-	
Vert.	367.8	33.8	-	15.2	10.2	31.8	-	27.4	-	46.0	-	18.6	-	
Vert.	481.3	30.4	-	17.2	10.8	31.9	-	26.6	-	46.0	-	19.4	-	
Vert.	5350.0	50.9	35.5	31.8	6.1	31.2	-	57.6	42.2	73.9	53.9	16.3	11.7	*1)
Vert.	10600.0	50.3	43.2	39.9	-2.4	33.0	-	54.7	47.6	73.9	53.9	19.2	6.3	
Vert.	15900.0	43.0	32.2	37.4	-1.1	32.6	-	46.7	35.9	73.9	53.9	27.2	18.0	Floor noise
Vert.	21200.0	48.3	39.2	38.2	-1.9	33.1	-	51.5	42.4	73.9	53.9	22.4	11.5	
Vert.	31800.0	66.3	54.7	43.7	3.4	74.5	-	38.9	27.3	73.9	53.9	35.0	26.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

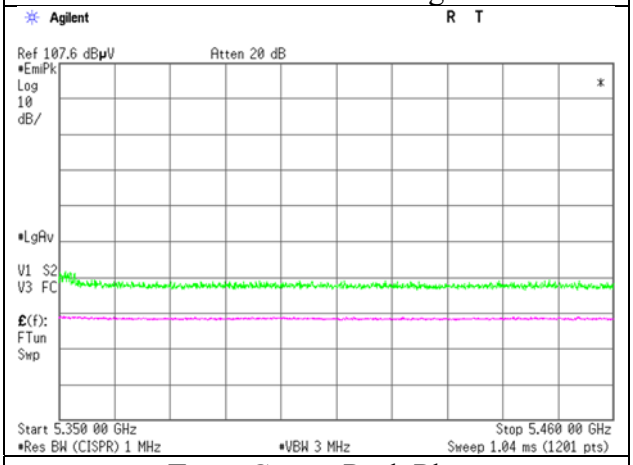
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5300 MHz

Horizontal

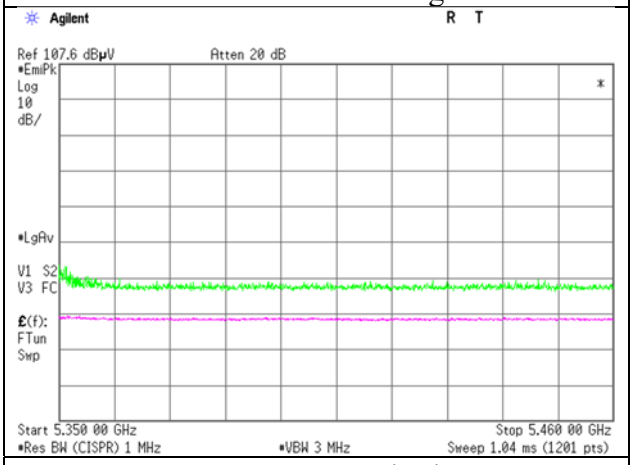
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 25, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Akihiko Maeda	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5320 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5350.0	57.6	40.9	31.8	6.1	31.2	-	64.2	47.5	73.9	53.9	9.7	6.4	*1)
Hori.	10640.0	50.8	44.0	39.7	-2.4	33.0	-	55.0	48.2	73.9	53.9	18.9	5.7	
Hori.	15960.0	44.1	32.3	37.8	-1.1	32.6	-	48.2	36.3	73.9	53.9	25.7	17.6	Floor noise
Hori.	21280.0	47.6	39.4	38.2	-1.9	33.1	-	50.8	42.6	73.9	53.9	23.1	11.3	
Hori.	31920.0	70.0	-	43.7	3.4	74.3	-	42.9	-	68.2	-	25.3	-	
Vert.	5350.0	58.0	42.3	31.8	6.1	31.2	-	64.6	49.0	73.9	53.9	9.3	4.9	*1)
Vert.	10640.0	48.6	42.4	39.7	-2.4	33.0	-	52.9	46.7	73.9	53.9	21.0	7.2	
Vert.	15960.0	44.1	32.3	37.8	-1.1	32.6	-	48.2	36.3	73.9	53.9	25.7	17.6	Floor noise
Vert.	21280.0	47.6	38.5	38.2	-1.9	33.1	-	50.8	41.7	73.9	53.9	23.1	12.2	
Vert.	31920.0	67.5	-	43.7	3.4	74.3	-	40.4	-	68.2	-	27.8	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

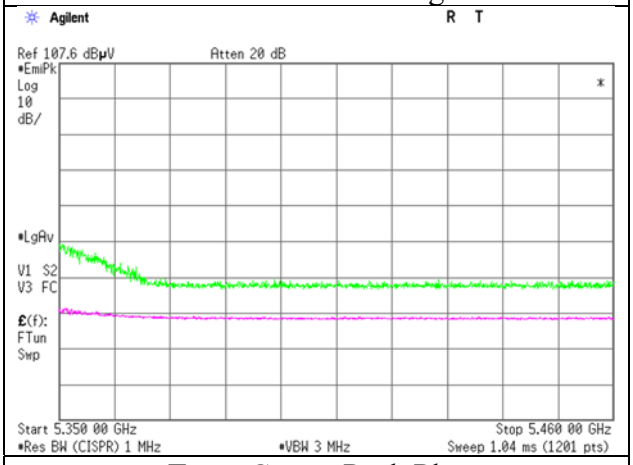
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5320 MHz

Horizontal

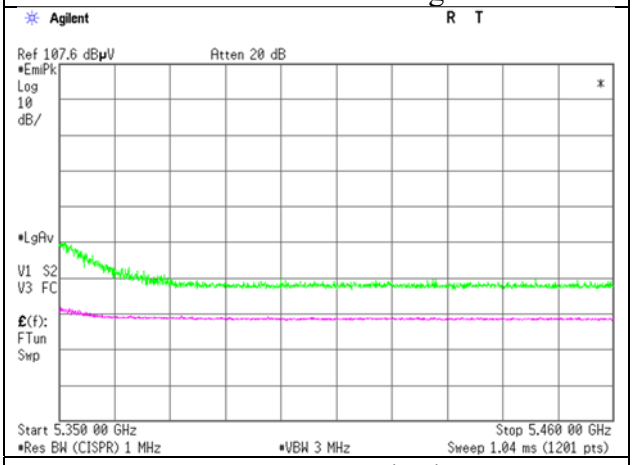
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 25, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Akihiko Maeda	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5500 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3666.7	44.4	38.3	29.2	5.5	31.4	-	47.6	41.5	73.9	53.9	26.3	12.5	
Hori.	5460.0	53.0	36.9	32.1	6.1	31.3	-	60.0	43.9	68.2	53.9	8.3	10.1	*1)
Hori.	5470.0	58.4	-	32.1	6.1	31.3	-	65.4	-	68.2	-	2.8	-	*1)
Hori.	11000.0	51.3	43.6	40.0	-2.2	33.2	-	55.9	48.2	73.9	53.9	18.0	5.7	
Hori.	16500.0	43.7	32.3	40.4	-1.0	32.6	-	50.6	39.1	73.9	53.9	23.3	14.8	Floor noise
Hori.	22000.0	48.6	40.4	38.3	-1.8	33.1	-	52.0	43.8	73.9	53.9	21.9	10.1	
Hori.	33000.0	68.5	-	43.8	3.8	75.1	-	41.0	-	68.2	-	27.2	-	
Vert.	3666.7	46.0	39.9	29.2	5.5	31.4	-	49.2	43.1	73.9	53.9	24.7	10.8	
Vert.	5460.0	53.6	37.3	32.1	6.1	31.3	-	60.5	44.3	68.2	53.9	7.7	9.6	*1)
Vert.	5470.0	58.0	-	32.1	6.1	31.3	-	65.0	-	68.2	-	3.2	-	*1)
Vert.	11000.0	49.3	41.7	40.0	-2.2	33.2	-	53.9	46.3	73.9	53.9	20.0	7.6	
Vert.	16500.0	43.7	32.3	40.4	-1.0	32.6	-	50.6	39.1	73.9	53.9	23.3	14.8	Floor noise
Vert.	22000.0	48.0	39.9	38.3	-1.8	33.1	-	51.4	43.3	73.9	53.9	22.5	10.6	
Vert.	33000.0	67.7	-	43.8	3.8	75.1	-	40.2	-	68.2	-	28.0	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

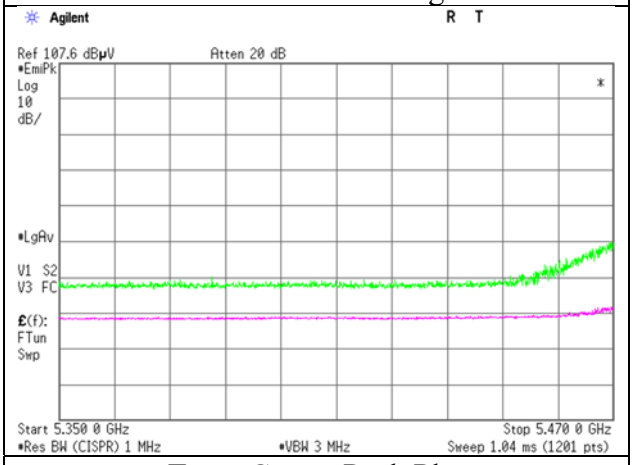
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5500 MHz

Horizontal

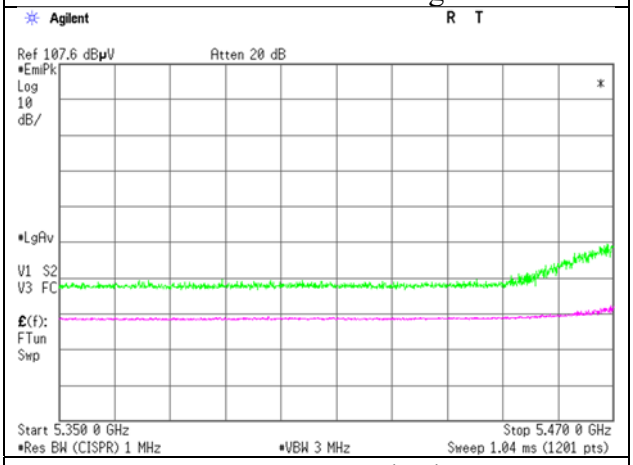
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 25, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Akihiko Maeda	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5580 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3719.9	43.6	36.8	29.3	5.5	31.4	-	47.0	40.2	73.9	53.9	26.9	13.7	
Hori.	11160.0	53.6	44.5	39.6	-2.2	33.1	-	57.9	48.8	73.9	53.9	16.0	5.1	
Hori.	16740.0	43.3	32.1	39.8	-1.0	32.6	-	49.6	38.3	73.9	53.9	24.3	15.6	Floor noise
Hori.	22320.0	47.8	39.2	38.3	-1.7	33.2	-	51.3	42.7	73.9	53.9	22.7	11.3	
Hori.	33480.0	69.6	-	43.7	3.9	75.5	-	41.6	-	68.2	-	26.6	-	
Vert.	3719.9	45.8	40.3	29.3	5.5	31.4	-	49.1	43.6	73.9	53.9	24.8	10.3	
Vert.	11160.0	49.9	41.3	39.6	-2.2	33.1	-	54.2	45.6	73.9	53.9	19.7	8.4	
Vert.	16740.0	43.3	32.1	39.8	-1.0	32.6	-	49.6	38.3	73.9	53.9	24.3	15.6	Floor noise
Vert.	22320.0	48.1	39.6	38.3	-1.7	33.2	-	51.6	43.1	73.9	53.9	22.4	10.9	
Vert.	33480.0	68.2	-	43.7	3.9	75.5	-	40.2	-	68.2	-	28.0	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

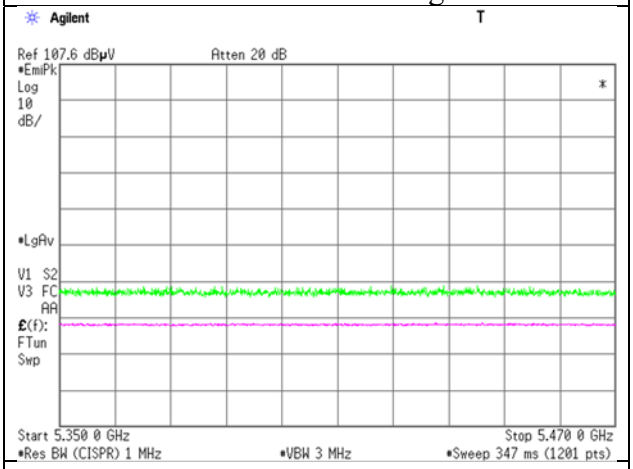
Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5580 MHz

Horizontal

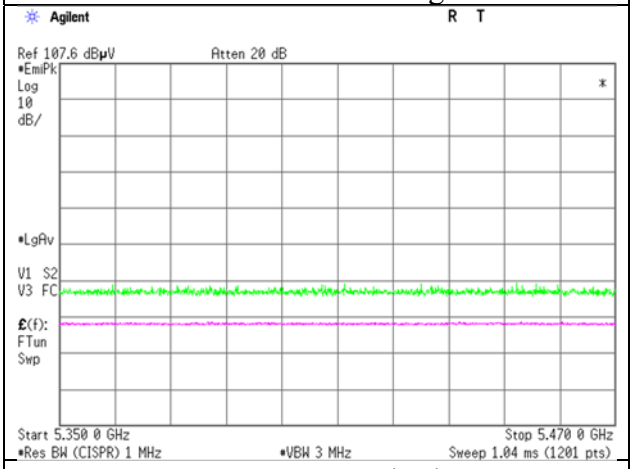
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5680 MHz

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3786.6	43.6	36.9	29.4	5.5	31.4	-	47.1	40.4	73.9	53.9	26.8	13.5	
Hori.	5725.0	48.1	-	32.5	6.2	31.3	-	55.5	-	68.2	-	12.7	-	*1)
Vert.	3786.6	44.0	37.6	29.4	5.5	31.4	-	47.5	41.1	73.9	53.9	26.4	12.8	
Vert.	5725.0	47.8	-	32.5	6.2	31.3	-	55.2	-	68.2	-	13.0	-	*1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

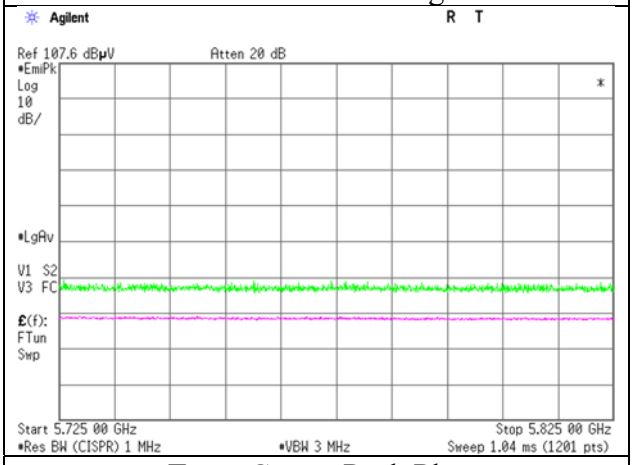
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5680 MHz

Horizontal

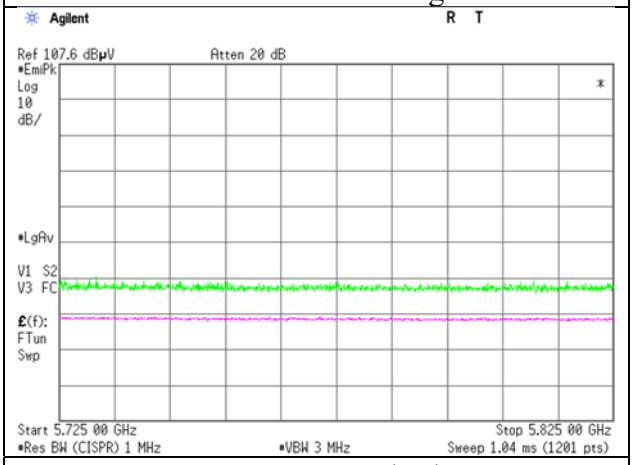
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 25, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 45 % RH
Engineer	Junki Nagatomi	Akihiko Maeda	Hiroyuki Furutaka	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5700 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3800.0	43.5	36.1	29.5	5.5	31.4	-	47.1	39.7	73.9	53.9	26.8	14.2	
Hori.	5725.0	60.1	-	32.5	6.2	31.3	-	67.5	-	68.2	53.9	0.7	-	*1)
Hori.	11400.0	48.5	40.3	40.0	-2.2	33.1	-	53.1	44.9	73.9	53.9	20.8	9.0	
Hori.	17100.0	44.0	33.0	41.2	-0.8	32.6	-	51.8	40.7	73.9	53.9	22.1	13.2	Floor noise
Hori.	22800.0	47.1	39.9	38.4	-1.5	33.3	-	50.7	43.5	73.9	53.9	23.2	10.4	
Hori.	34200.0	71.0	-	43.6	4.1	76.1	-	42.6	-	68.2	-	25.6	-	
Vert.	3800.0	43.6	36.5	29.5	5.5	31.4	-	47.2	40.1	73.9	53.9	26.7	13.8	
Vert.	5725.0	60.4	-	32.5	6.2	31.3	-	67.7	-	68.2	53.9	0.5	-	*1)
Vert.	11400.0	46.3	36.7	40.0	-2.2	33.1	-	51.0	41.4	73.9	53.9	22.9	12.5	
Vert.	17100.0	44.0	33.0	41.2	-0.8	32.6	-	51.8	40.7	73.9	53.9	22.1	13.2	Floor noise
Vert.	22800.0	46.4	38.2	38.4	-1.5	33.3	-	50.0	41.8	73.9	53.9	23.9	12.1	
Vert.	34200.0	70.8	-	43.6	4.1	76.1	-	42.4	-	68.2	-	25.8	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

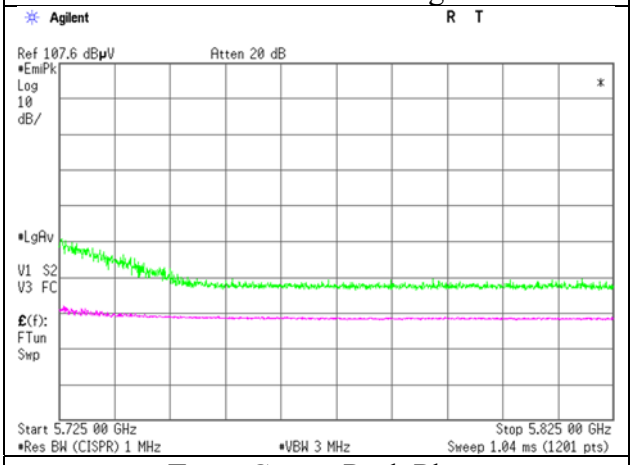
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 25, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5700 MHz

Horizontal

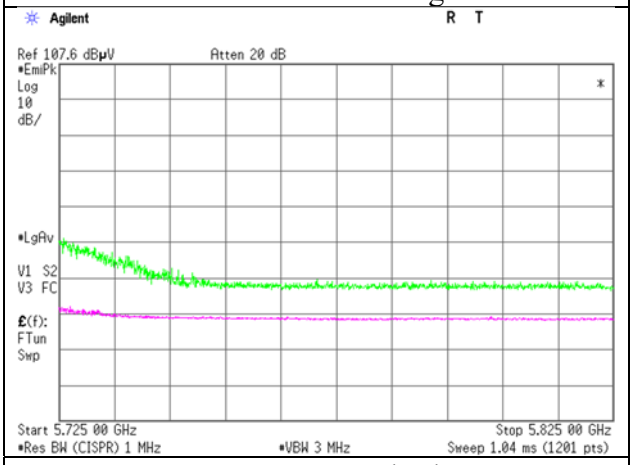
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	20 deg. C / 44 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 42 % RH
Engineer	Yuta Moriya	Akihiko Maeda	Hiroyuki Furutaka	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5745 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3829.9	43.2	35.5	29.6	6.4	31.4	-	47.9	40.1	73.9	53.9	26.1	13.8	
Hori.	5650.0	41.7	-	32.3	7.3	31.3	-	49.9	-	68.2	-	18.3	-	
Hori.	5700.0	51.0	-	32.4	7.3	31.3	-	59.3	-	105.2	-	45.9	-	
Hori.	5720.0	60.0	-	32.4	7.3	31.3	-	68.4	-	110.8	-	42.4	-	
Hori.	5725.0	61.9	-	32.5	7.3	31.3	-	70.3	-	122.2	-	51.9	-	*1)
Hori.	11490.0	46.8	38.8	39.9	-2.3	33.1	-	51.4	43.3	73.9	53.9	22.5	10.6	
Hori.	17235.0	44.5	33.3	41.4	-0.8	32.6	-	52.4	41.2	73.9	53.9	21.5	12.7	Floor noise
Hori.	22980.0	48.4	40.6	38.5	-1.5	33.3	-	52.1	44.3	73.9	53.9	21.8	9.6	
Hori.	34470.0	69.1	-	43.5	4.1	76.1	-	40.6	-	68.2	-	27.6	-	
Vert.	3829.9	43.6	36.7	29.6	6.4	31.4	-	48.2	41.3	73.9	53.9	25.7	12.6	
Vert.	5650.0	40.8	-	32.3	7.3	31.3	-	49.0	-	68.2	-	19.2	-	
Vert.	5700.0	51.0	-	32.4	7.3	31.3	-	59.3	-	105.2	-	45.9	-	
Vert.	5720.0	59.8	-	32.4	7.3	31.3	-	68.2	-	110.8	-	42.6	-	
Vert.	5725.0	61.9	-	32.5	7.3	31.3	-	70.4	-	122.2	-	51.8	-	*1)
Vert.	11490.0	45.3	35.3	39.9	-2.3	33.1	-	49.9	39.9	73.9	53.9	24.0	14.0	
Vert.	17235.0	44.5	33.3	41.4	-0.8	32.6	-	52.4	41.2	73.9	53.9	21.5	12.7	Floor noise
Vert.	22980.0	47.3	37.8	38.5	-1.5	33.3	-	51.0	41.5	73.9	53.9	22.9	12.4	
Vert.	34470.0	68.3	-	43.5	4.1	76.1	-	39.9	-	68.2	-	28.3	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

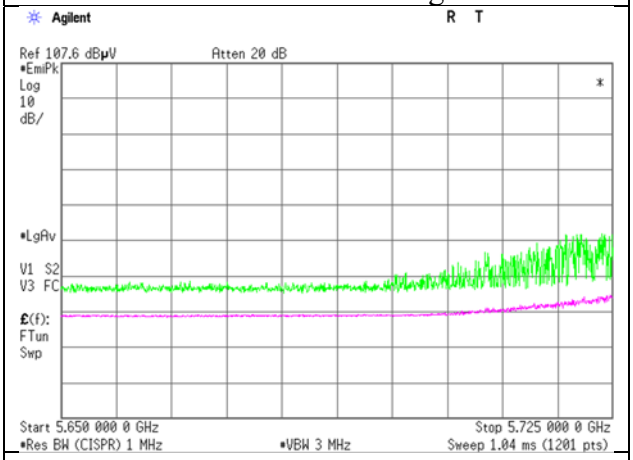
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5745 MHz

Horizontal

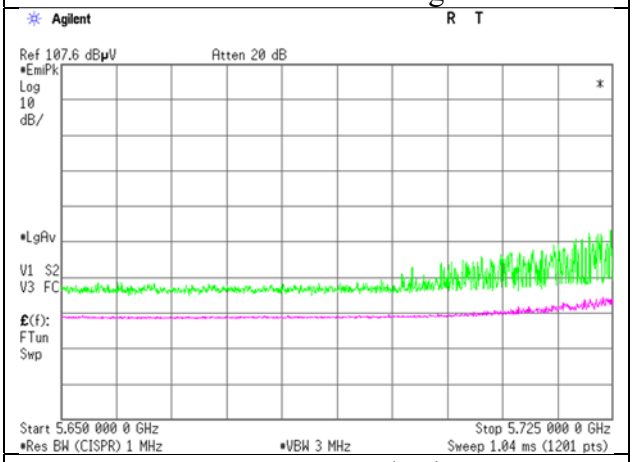
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	20 deg. C / 44 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 42 % RH
Engineer	Yuta Moriya	Akihiko Maeda	Hiroyuki Furutaka	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5785 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	11570.0	46.9	38.3	39.7	-2.3	33.0	-	51.4	42.7	73.9	53.9	22.5	11.2	
Hori.	17355.0	43.6	32.6	42.4	-0.7	32.6	-	52.7	41.7	73.9	53.9	21.2	12.2	Floor noise
Hori.	23140.0	48.7	40.5	38.6	-1.5	33.3	-	52.5	44.3	73.9	53.9	21.4	9.6	
Hori.	34710.0	70.2	-	43.5	4.2	76.2	-	41.7	-	68.2	-	26.5	-	
Vert.	11570.0	46.1	37.5	39.7	-2.3	33.0	-	50.5	41.9	73.9	53.9	23.4	12.0	
Vert.	17355.0	43.6	32.6	42.4	-0.7	32.6	-	52.7	41.7	73.9	53.9	21.2	12.2	Floor noise
Vert.	23140.0	47.7	37.1	38.6	-1.5	33.3	-	51.5	40.9	73.9	53.9	22.4	13.0	
Vert.	34710.0	68.8	-	43.5	4.2	76.2	-	40.3	-	68.2	-	27.9	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 26, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	20 deg. C / 44 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 42 % RH
Engineer	Yuta Moriya	Akihiko Maeda	Hiroyuki Furutaka	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-20 5825 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3883.3	42.6	35.3	29.8	6.4	31.4	-	47.5	40.2	73.9	53.9	26.4	13.7	
Hori.	5850.0	59.5	-	32.7	7.4	31.4	-	68.2	-	122.2	-	54.0	-	
Hori.	5855.0	55.9	-	32.7	7.4	31.4	-	64.6	-	110.8	-	46.2	-	
Hori.	5875.0	46.9	-	32.8	7.4	31.4	-	55.6	-	105.2	-	49.6	-	
Hori.	5925.0	41.1	-	32.9	7.4	31.4	-	50.0	-	68.2	-	18.2	-	
Hori.	11650.0	48.6	39.2	39.3	-2.3	33.0	-	52.7	43.3	73.9	53.9	21.2	10.6	
Hori.	17475.0	43.1	32.4	43.4	-0.7	32.6	-	53.2	42.5	73.9	53.9	20.7	11.4	Floor noise
Hori.	23300.0	49.0	41.2	38.7	-1.4	33.4	-	52.9	45.1	73.9	53.9	21.0	8.8	
Hori.	34950.0	68.5	-	43.5	4.2	76.2	-	40.0	-	68.2	-	28.2	-	
Vert.	3883.3	42.6	34.8	29.8	6.4	31.4	-	47.5	39.6	73.9	53.9	26.4	14.3	
Vert.	5850.0	58.4	-	32.7	7.4	31.4	-	67.1	-	122.2	-	55.1	-	
Vert.	5855.0	55.6	-	32.7	7.4	31.4	-	64.3	-	110.8	-	46.5	-	
Vert.	5875.0	47.6	-	32.8	7.4	31.4	-	56.4	-	105.2	-	48.8	-	
Vert.	5925.0	41.4	-	32.9	7.4	31.4	-	50.3	-	68.2	-	17.9	-	
Vert.	11650.0	47.7	38.9	39.3	-2.3	33.0	-	51.7	42.9	73.9	53.9	22.2	11.0	
Vert.	17475.0	43.1	32.4	43.4	-0.7	32.6	-	53.2	42.5	73.9	53.9	20.7	11.4	Floor noise
Vert.	23300.0	48.0	38.0	38.7	-1.4	33.4	-	51.9	41.9	73.9	53.9	22.0	12.0	
Vert.	34950.0	68.5	-	43.5	4.2	76.2	-	40.0	-	68.2	-	28.2	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

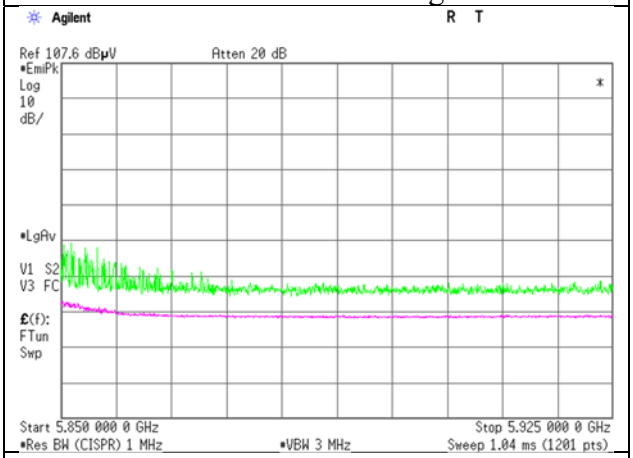
Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 26, 2020
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ac-20 5825 MHz

Horizontal

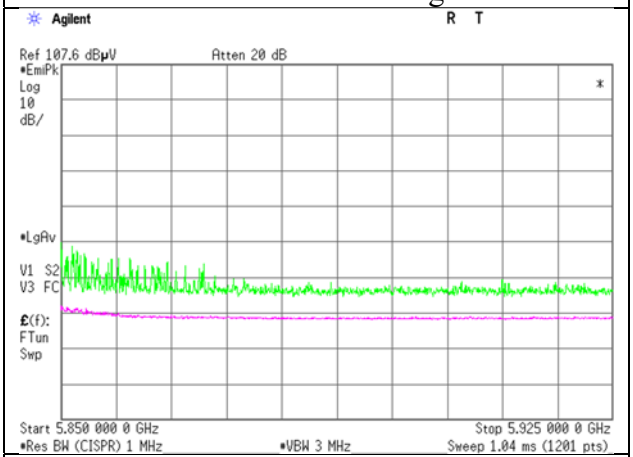
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 27, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka	Akihiko Maeda	Hiroyuki Furutaka	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5190 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5150.0	61.1	42.9	32.4	6.0	31.2	-	68.3	50.1	73.9	53.9	5.6	3.8	*1)
Hori.	10380.0	48.4	42.4	39.8	-2.5	32.9	-	52.8	46.7	73.9	53.9	21.1	7.2	
Hori.	15570.0	43.7	33.2	38.0	-1.2	32.5	-	48.0	37.5	73.9	53.9	25.9	16.4	Floor noise
Hori.	20760.0	47.4	40.8	38.0	-2.0	33.0	-	50.4	43.8	73.9	53.9	23.5	10.1	
Hori.	31140.0	66.5	-	43.5	3.3	75.8	-	37.5	-	68.2	-	30.7	-	
Vert.	5150.0	61.4	41.6	32.4	6.0	31.2	-	68.7	48.8	73.9	53.9	5.2	5.1	*1)
Vert.	10380.0	47.3	41.8	39.8	-2.5	32.9	-	51.6	46.2	73.9	53.9	22.3	7.7	
Vert.	15570.0	43.7	33.2	38.0	-1.2	32.5	-	48.0	37.5	73.9	53.9	25.9	16.4	Floor noise
Vert.	20760.0	48.9	41.2	38.0	-2.0	33.0	-	51.9	44.2	73.9	53.9	22.0	9.7	
Vert.	31140.0	67.1	-	43.5	3.3	75.8	-	38.1	-	68.2	-	30.1	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

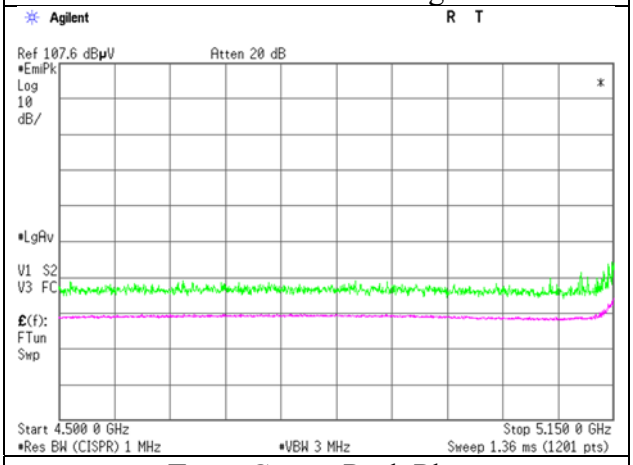
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 27, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka
	(1 GHz - 10 GHz)
Mode	Tx 11ac-40 5190 MHz

Horizontal

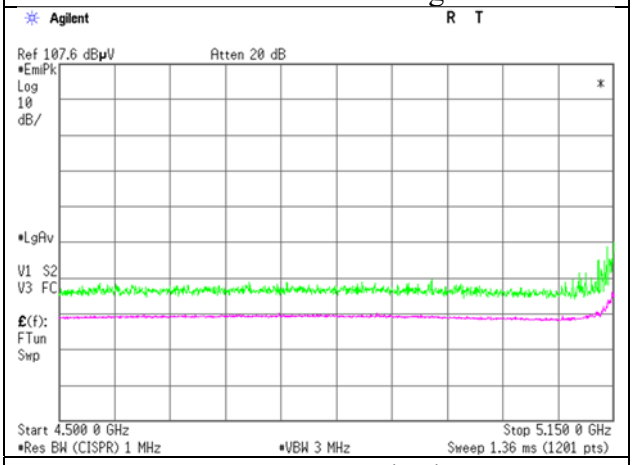
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 27, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka	Akihiko Maeda	Hiroyuki Furutaka	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5270 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5350.0	51.6	32.5	31.8	7.1	31.2	-	59.2	40.2	73.9	53.9	14.7	13.7	*1)
Hori.	10540.0	51.0	44.1	39.9	-2.4	33.0	-	55.4	48.5	73.9	53.9	18.5	5.4	
Hori.	15810.0	44.0	32.7	37.3	-1.2	32.5	-	47.6	36.3	73.9	53.9	26.3	17.6	Floor noise
Hori.	21080.0	48.1	41.0	38.1	-1.9	33.1	-	51.2	44.1	73.9	53.9	22.7	9.8	
Hori.	31620.0	66.5	56.7	43.7	3.4	74.9	-	38.7	28.8	73.9	53.9	35.3	25.1	
Vert.	5350.0	51.2	32.7	31.8	7.1	31.2	-	58.9	40.4	73.9	53.9	15.1	13.6	*1)
Vert.	10540.0	49.5	43.2	39.9	-2.4	33.0	-	53.9	47.6	73.9	53.9	20.0	6.3	
Vert.	15810.0	44.0	32.7	37.3	-1.2	32.5	-	47.6	36.3	73.9	53.9	26.3	17.6	Floor noise
Vert.	21080.0	47.6	39.9	38.1	-1.9	33.1	-	50.7	43.0	73.9	53.9	23.2	10.9	
Vert.	31620.0	66.3	56.7	43.7	3.4	74.9	-	38.5	28.8	73.9	53.9	35.4	25.1	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 27, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	18 deg. C / 43 % RH	20 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka	Akihiko Maeda	Hiroyuki Furutaka	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5310 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5350.0	62.1	43.3	31.8	6.1	31.2	-	68.7	49.9	73.9	53.9	5.2	4.0	*1)
Hori.	10620.0	51.1	44.1	39.8	-2.4	33.0	-	55.5	48.5	73.9	53.9	18.4	5.4	
Hori.	15930.0	42.9	32.7	37.6	-1.1	32.6	-	46.9	36.7	73.9	53.9	27.1	17.2	Floor noise
Hori.	21240.0	48.4	40.6	38.2	-1.9	33.1	-	51.6	43.8	73.9	53.9	22.3	10.1	
Hori.	31860.0	66.3	-	43.7	3.4	74.4	-	39.0	-	68.2	-	29.2	-	
Vert.	5350.0	60.4	44.2	31.8	6.1	31.2	-	67.0	50.8	73.9	53.9	6.9	3.1	*1)
Vert.	10620.0	49.1	43.1	39.8	-2.4	33.0	-	53.5	47.5	73.9	53.9	20.4	6.4	
Vert.	15930.0	42.9	32.7	37.6	-1.1	32.6	-	46.9	36.7	73.9	53.9	27.1	17.2	Floor noise
Vert.	21240.0	48.1	40.1	38.2	-1.9	33.1	-	51.3	43.3	73.9	53.9	22.6	10.6	
Vert.	31860.0	65.5	-	43.7	3.4	74.4	-	38.2	-	68.2	-	30.0	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

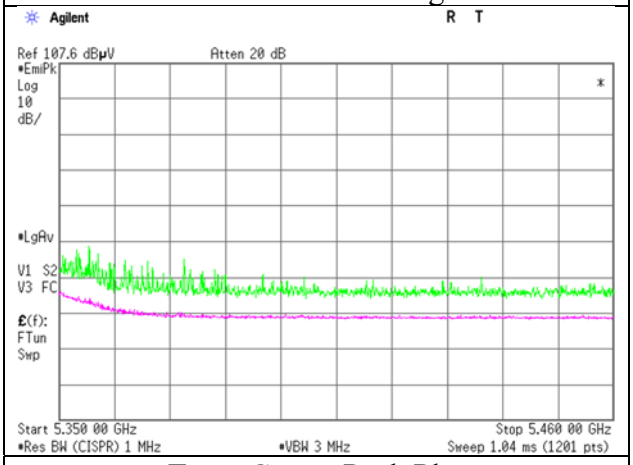
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 27, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka
	(1 GHz - 10 GHz)
Mode	Tx 11ac-40 5310 MHz

Horizontal

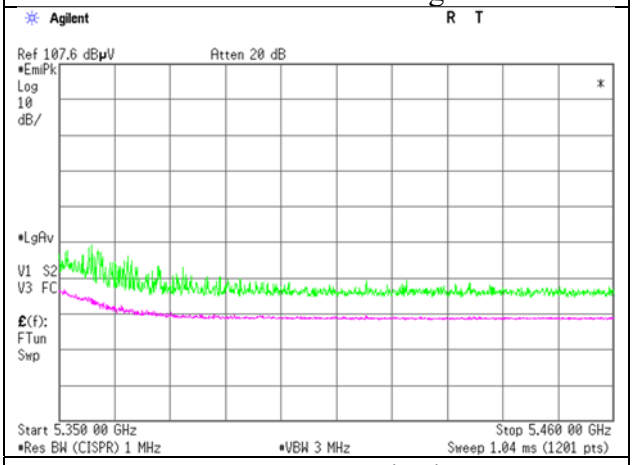
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 27, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	22 deg. C / 45 % RH	20 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka	Akihiko Maeda	Junya Okuno	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5510 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3673.4	44.3	37.4	29.2	5.5	31.4	-	47.5	40.7	73.9	53.9	26.4	13.2	
Hori.	5460.0	52.7	34.3	32.1	6.1	31.3	-	59.6	41.2	73.9	53.9	14.3	12.7	*1)
Hori.	5470.0	60.1	-	32.1	6.1	31.3	-	67.1	-	73.9	53.9	6.8	-	*1)
Hori.	11020.0	50.7	43.9	39.9	-2.2	33.2	-	55.3	48.4	73.9	53.9	18.6	5.5	
Hori.	16530.0	43.0	32.7	39.2	-1.0	32.6	-	48.6	38.3	73.9	53.9	25.3	15.6	Floor noise
Hori.	22040.0	47.0	37.8	38.3	-1.8	33.1	-	50.3	41.1	73.9	53.9	23.6	12.8	
Hori.	33060.0	66.5	-	43.8	3.8	75.1	-	39.0	-	68.2	-	29.2	-	
Vert.	3673.4	46.8	40.8	29.2	5.5	31.4	-	50.0	44.0	73.9	53.9	23.9	9.9	
Vert.	5460.0	50.8	33.5	32.1	6.1	31.3	-	57.8	40.4	73.9	53.9	16.1	13.5	*1)
Vert.	5470.0	57.0	-	32.1	6.1	31.3	-	64.0	-	73.9	53.9	9.9	-	*1)
Vert.	11020.0	49.0	41.6	39.9	-2.2	33.2	-	53.5	46.1	73.9	53.9	20.4	7.8	
Vert.	16530.0	43.0	32.7	39.2	-1.0	32.6	-	48.6	38.3	73.9	53.9	25.3	15.6	Floor noise
Vert.	22040.0	47.2	39.9	38.3	-1.8	33.1	-	50.6	43.3	73.9	53.9	23.3	10.6	
Vert.	33060.0	66.2	-	43.8	3.8	75.1	-	38.6	-	68.2	-	29.6	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

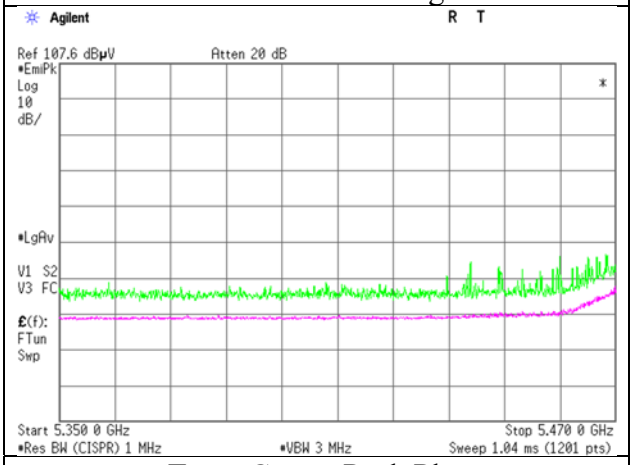
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 27, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka
	(1 GHz - 10 GHz)
Mode	Tx 11ac-40 5510 MHz

Horizontal

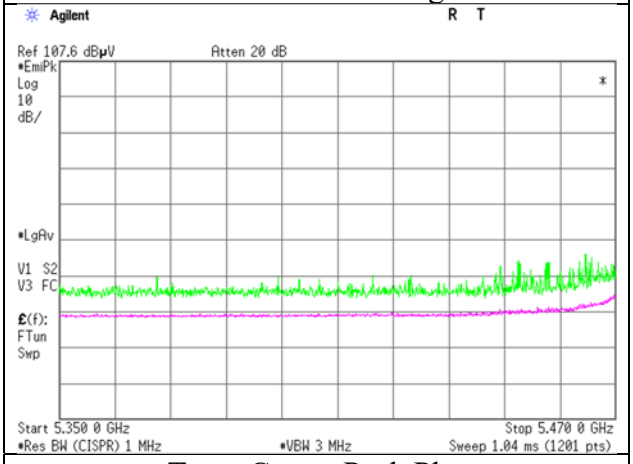
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 27, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	22 deg. C / 45 % RH	20 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka	Akihiko Maeda	Junya Okuno	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5550 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3700.2	43.4	34.5	29.3	6.3	31.4	-	47.6	38.7	73.9	53.9	26.3	15.2	
Hori.	5460.0	48.5	31.8	32.1	7.2	31.3	-	56.4	39.8	68.2	53.9	11.8	14.1	*1)
Hori.	5470.0	50.0	-	32.1	7.2	31.3	-	58.0	-	68.2	-	10.2	-	*1)
Hori.	11100.0	44.1	44.1	39.7	-2.2	33.2	-	48.4	48.4	73.9	53.9	25.5	5.5	
Hori.	16650.0	43.5	32.6	38.9	-1.0	32.6	-	48.9	38.0	73.9	53.9	25.1	15.9	Floor noise
Hori.	22200.0	48.1	40.5	38.3	-1.7	33.2	-	51.5	43.9	73.9	53.9	22.4	10.0	
Hori.	33300.0	67.4	-	43.8	3.9	75.4	-	39.7	-	68.2	-	28.5	-	
Vert.	3700.2	45.7	38.1	29.3	6.3	31.4	-	49.9	42.3	73.9	53.9	24.0	11.6	
Vert.	5460.0	48.2	32.0	32.1	7.2	31.3	-	56.2	40.0	68.2	53.9	12.1	13.9	*1)
Vert.	5470.0	50.6	-	32.1	7.2	31.3	-	58.6	-	68.2	-	9.6	-	*1)
Vert.	11100.0	51.1	42.6	39.7	-2.2	33.2	-	55.5	46.9	73.9	53.9	18.4	7.0	
Vert.	16650.0	43.5	32.6	38.9	-1.0	32.6	-	48.9	38.0	73.9	53.9	25.1	15.9	Floor noise
Vert.	22200.0	48.6	40.0	38.3	-1.7	33.2	-	52.0	43.4	73.9	53.9	21.9	10.5	
Vert.	33300.0	66.5	-	43.8	3.9	75.4	-	38.7	-	68.2	-	29.5	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 27, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	22 deg. C / 45 % RH	20 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka	Akihiko Maeda	Junya Okuno	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5670 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3779.9	43.4	35.4	29.4	6.4	31.4	-	47.7	39.7	73.9	53.9	26.2	14.2	
Hori.	5725.0	52.4	33.1	32.5	7.3	31.3	-	60.9	41.6	122.2	53.9	61.3	12.3	*1)
Hori.	11340.0	48.7	41.5	39.7	-2.2	33.1	-	53.1	45.9	73.9	53.9	20.8	8.0	
Hori.	17010.0	44.2	33.1	41.0	-0.9	32.6	-	51.7	40.6	73.9	53.9	22.2	13.3	Floor noise
Hori.	22680.0	48.3	41.0	38.4	-1.6	33.2	-	51.8	44.5	73.9	53.9	22.1	9.4	
Hori.	34020.0	68.2	-	43.6	4.0	76.0	-	39.7	-	68.2	-	28.5	-	
Vert.	3779.9	44.3	38.0	29.4	6.4	31.4	-	48.6	42.3	73.9	53.9	25.3	11.6	
Vert.	5725.0	54.1	33.7	32.5	7.3	31.3	-	62.6	42.1	122.2	53.9	59.6	11.8	*1)
Vert.	11340.0	48.3	40.2	39.7	-2.2	33.1	-	52.7	44.6	73.9	53.9	21.2	9.3	
Vert.	17010.0	44.2	33.1	41.0	-0.9	32.6	-	51.7	40.6	73.9	53.9	22.2	13.3	Floor noise
Vert.	22680.0	48.2	39.4	38.4	-1.6	33.2	-	51.7	43.0	73.9	53.9	22.2	10.9	
Vert.	34020.0	69.3	-	43.6	4.0	76.0	-	40.9	-	68.2	-	27.3	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB

10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

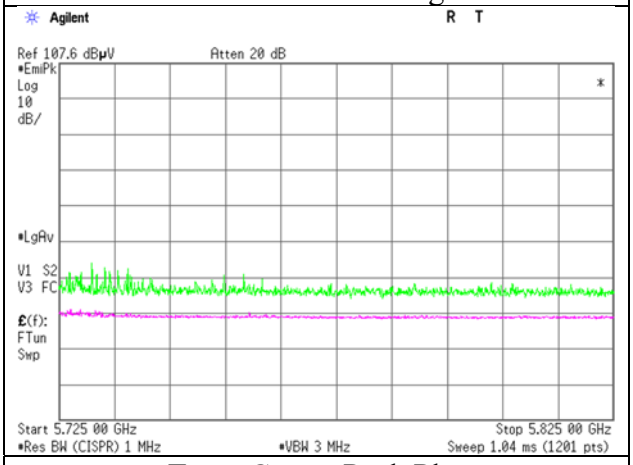
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Report No.	13521383H
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	October 27, 2020
Temperature / Humidity	23 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka
	(1 GHz - 10 GHz)
Mode	Tx 11ac-40 5670 MHz

Horizontal

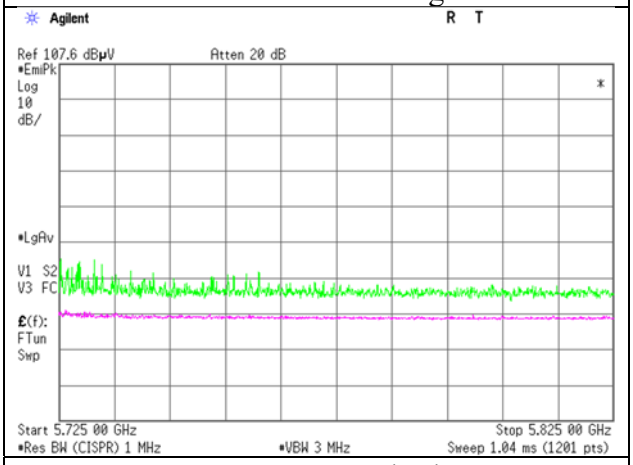
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge 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

Report No.	13521383H			
Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.4	No.4	No.4	No.4
Date	October 27, 2020	October 31, 2020	November 1, 2020	November 2, 2020
Temperature / Humidity	23 deg. C / 42 % RH	22 deg. C / 37 % RH	22 deg. C / 45 % RH	20 deg. C / 42 % RH
Engineer	Hiroyuki Furutaka	Akihiko Maeda	Junya Okuno	Junya Okuno
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5755 MHz			

Polarity	Frequency	Reading (QP) Reading (PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP) Result (PK)	Result (AV)	Limit (QP) Limit (PK)	Limit (AV)	Margin (QP) Margin (PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	3836.7	43.8	36.6	29.7	5.5	31.4	-	47.6	40.4	73.9	53.9	26.3	13.5	
Hori.	5650.0	44.1	-	32.3	6.2	31.3	-	51.3	-	68.2	53.9	16.9	-	
Hori.	5700.0	49.4	-	32.4	6.2	31.3	-	56.6	-	105.2	53.9	48.6	-	
Hori.	5720.0	57.0	-	32.4	6.2	31.3	-	64.3	-	110.8	53.9	46.5	-	
Hori.	5725.0	57.0	-	32.5	6.2	31.3	-	64.4	-	122.2	53.9	57.9	-	
Hori.	11510.0	46.6	39.4	39.9	-2.2	33.0	-	51.2	44.0	73.9	53.9	22.7	9.9	
Hori.	17265.0	44.1	33.9	41.5	-0.8	32.6	-	52.3	42.0	73.9	53.9	21.7	11.9	Floor noise
Hori.	23020.0	48.6	41.1	38.5	-1.5	33.3	-	52.4	44.9	73.9	53.9	21.5	9.0	
Hori.	34530.0	69.2	-	43.5	4.1	76.1	-	40.8	-	68.2	-	27.4	-	
Vert.	3836.7	44.5	35.9	29.7	5.5	31.4	-	48.3	39.7	73.9	53.9	25.6	14.2	
Vert.	5650.0	47.7	-	32.3	6.2	31.3	-	54.9	-	68.2	53.9	13.3	-	
Vert.	5700.0	53.4	-	32.4	6.2	31.3	-	60.7	-	105.2	53.9	44.6	-	
Vert.	5720.0	61.7	-	32.4	6.2	31.3	-	69.1	-	110.8	53.9	41.7	-	
Vert.	5725.0	62.1	-	32.5	6.2	31.3	-	69.4	-	122.2	53.9	52.8	-	
Vert.	11510.0	46.0	38.2	39.9	-2.2	33.0	-	50.5	42.8	73.9	53.9	23.4	11.1	
Vert.	17265.0	44.1	33.9	41.5	-0.8	32.6	-	52.3	42.0	73.9	53.9	21.7	11.9	Floor noise
Vert.	23020.0	48.1	38.3	38.5	-1.5	33.3	-	51.9	42.1	73.9	53.9	22.0	11.8	
Vert.	34530.0	68.8	-	43.5	4.1	76.1	-	40.4	-	68.2	-	27.9	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (4 m / 3.0 m) = 2.5 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB