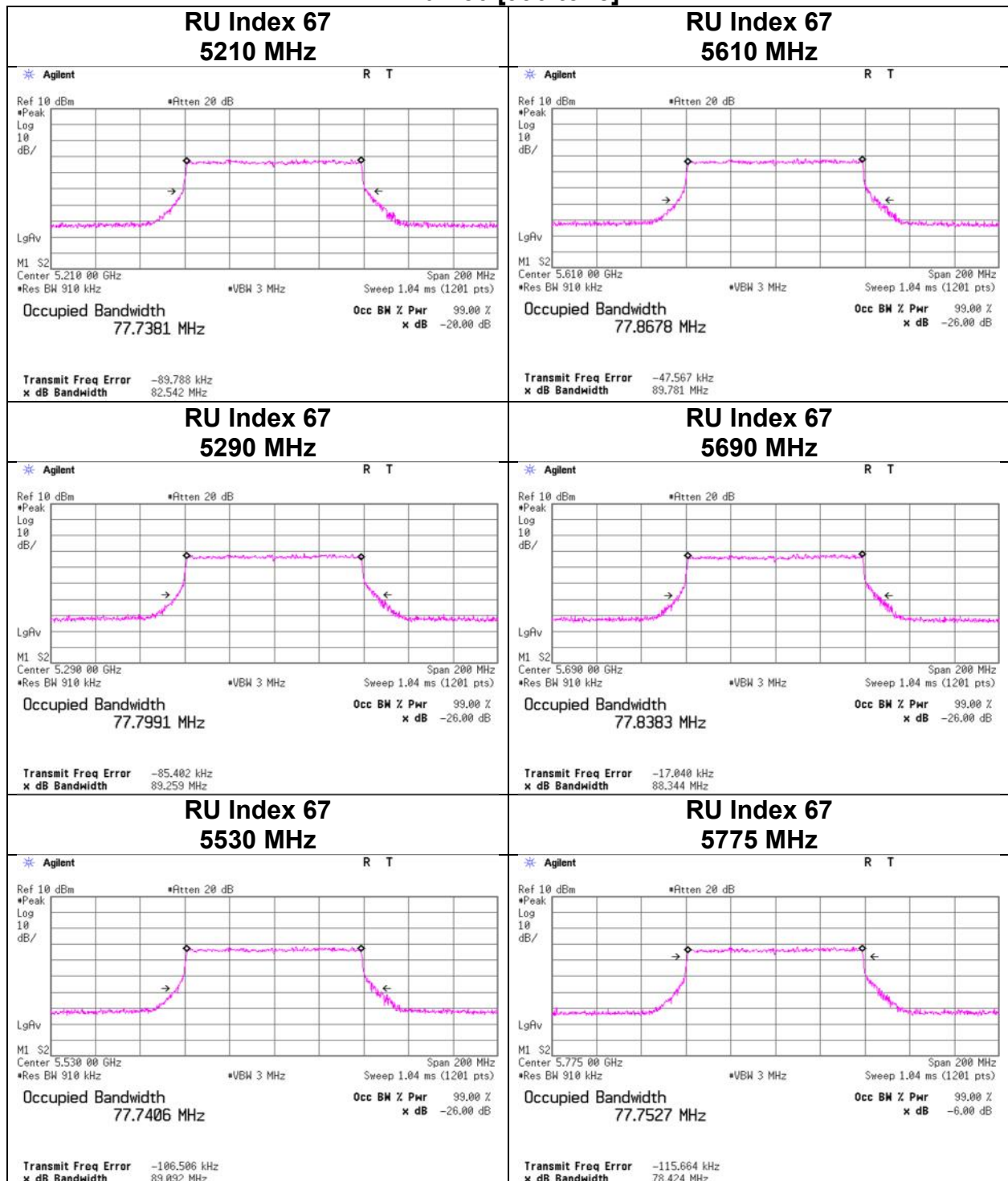
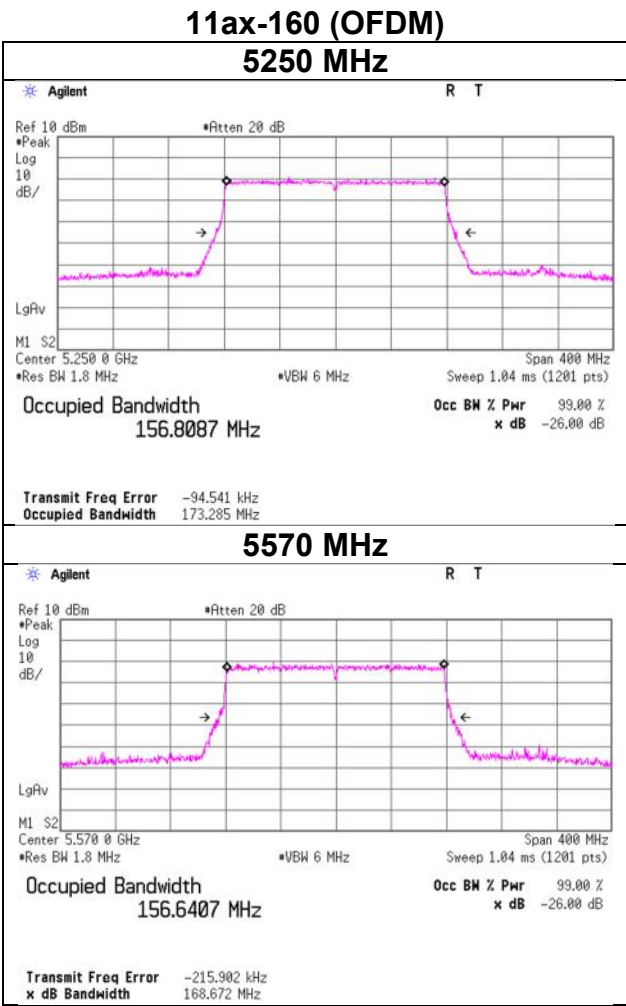


26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80 [996-tone]



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

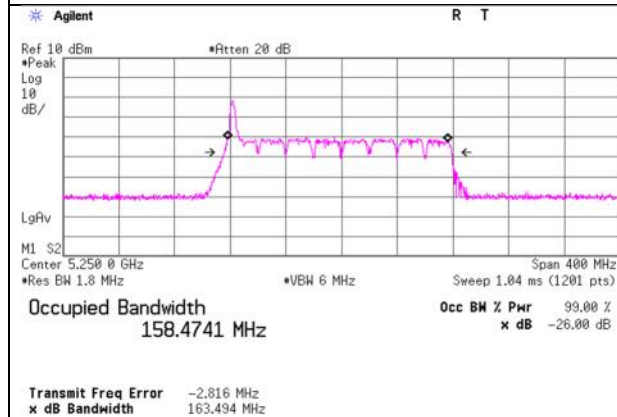


26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-160 (OFDMA)

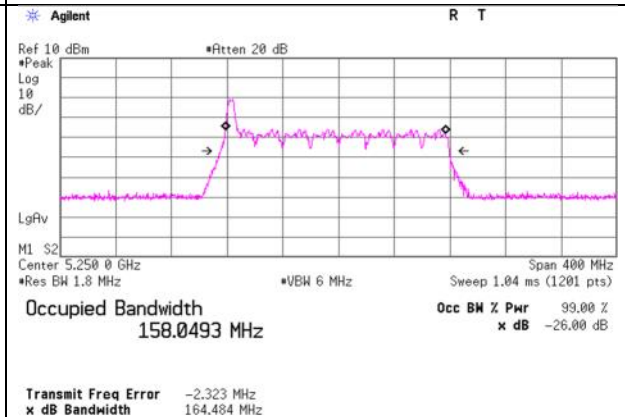
[26-tone]

**Segment 0
RU Index 0
5250 MHz**

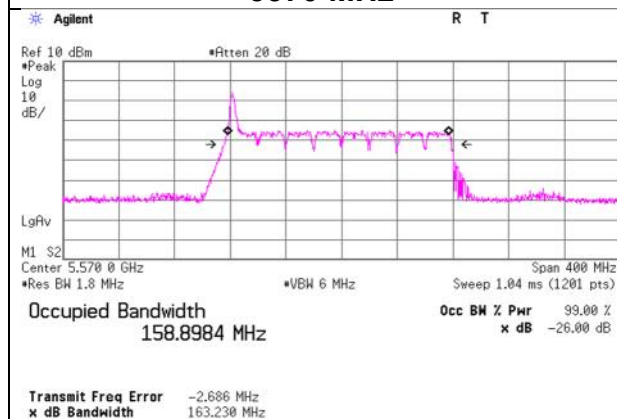


[52-tone]

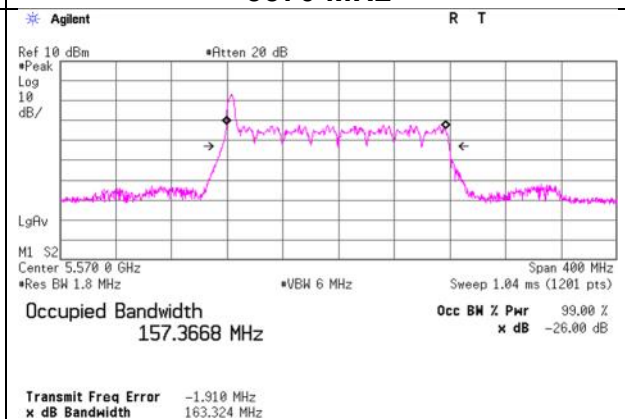
**Segment 0
RU Index 37
5250 MHz**



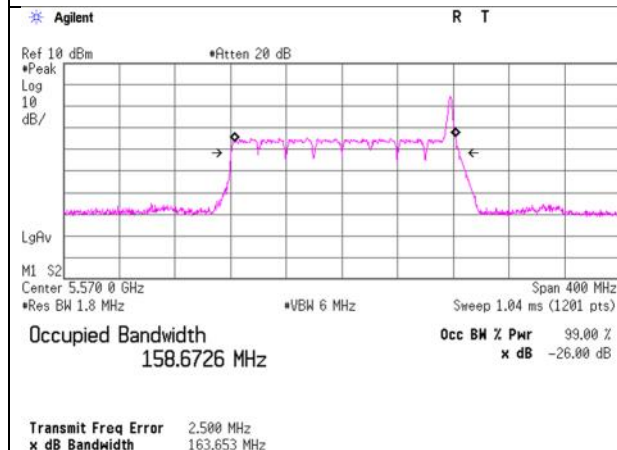
**Segment 0
RU Index 0
5570 MHz**



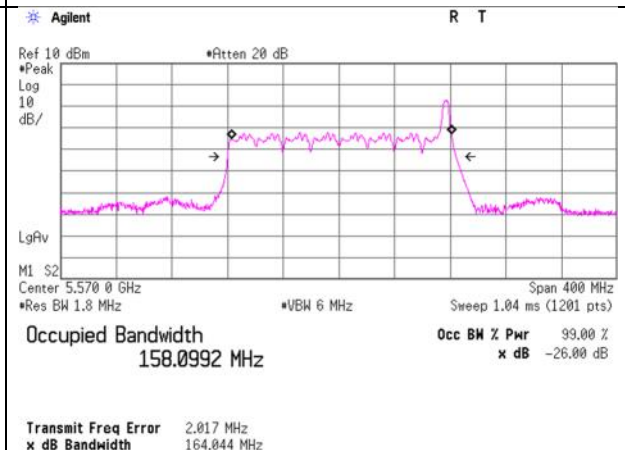
**Segment 0
RU Index 37
5570 MHz**



**Segment 1
RU Index 73
5570 MHz**

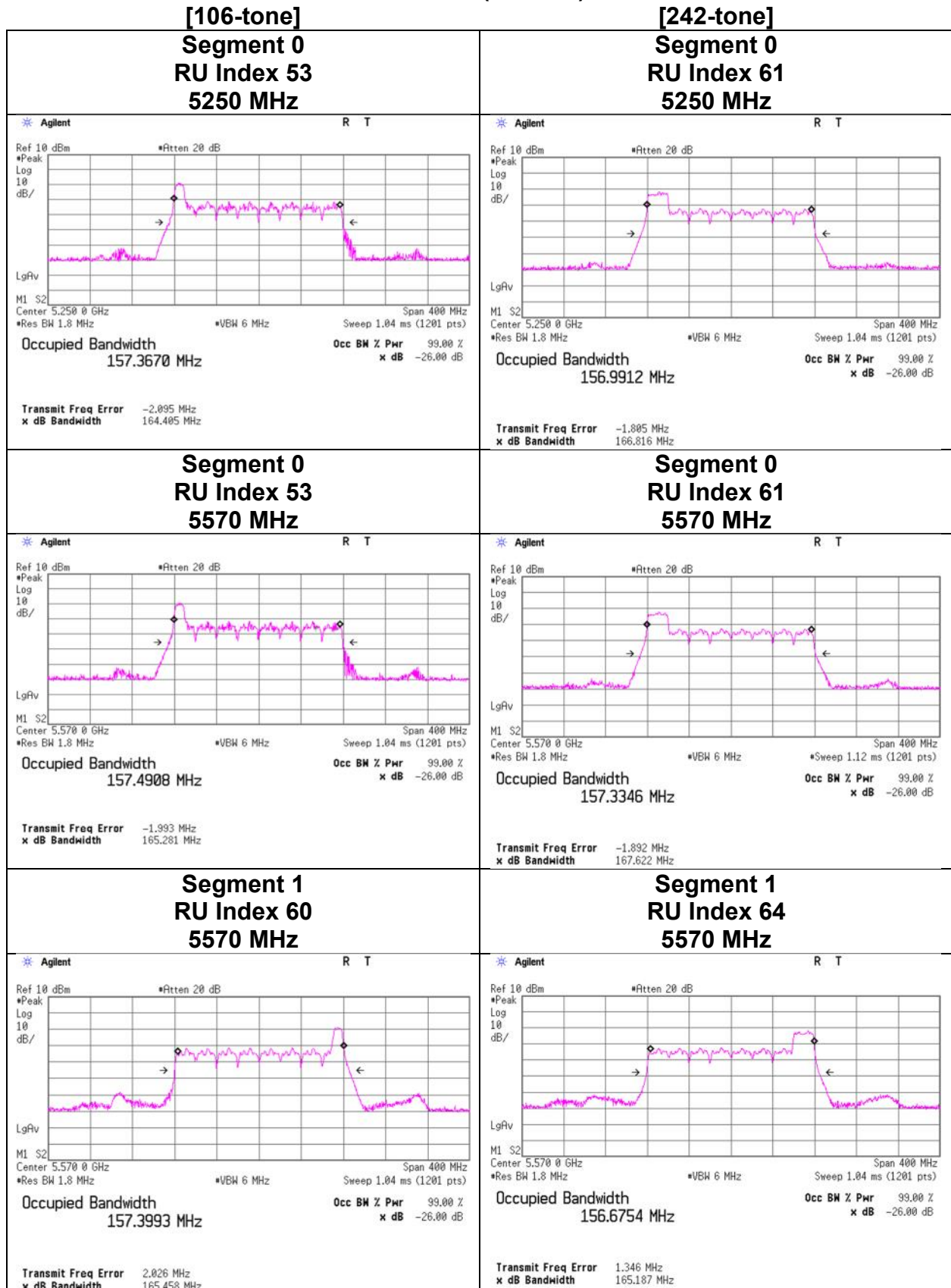


**Segment 1
RU Index 52
5570 MHz**



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-160 (OFDMA)

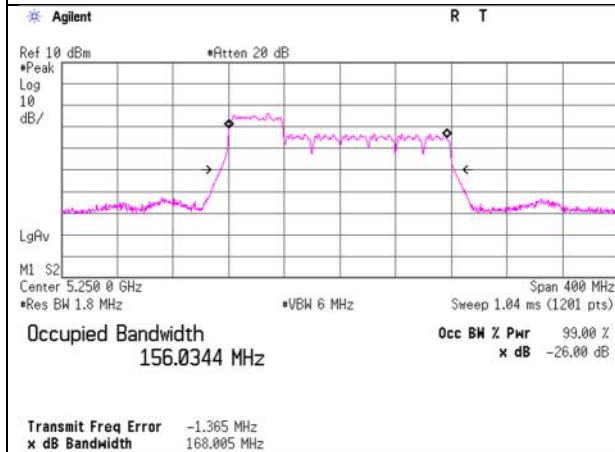


26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-160 (OFDMA)

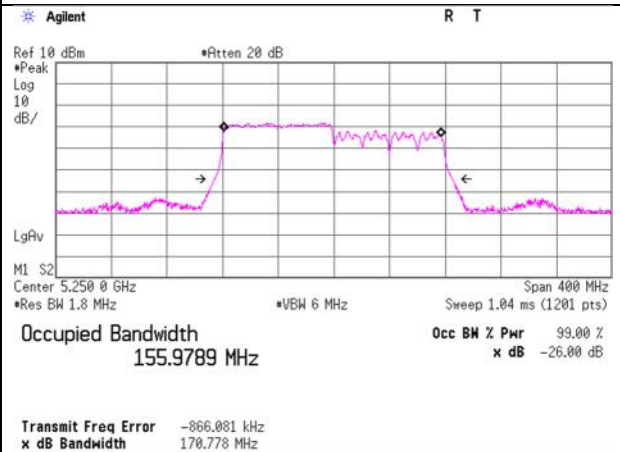
[484-tone]

Segment 0
RU Index 65
5250 MHz

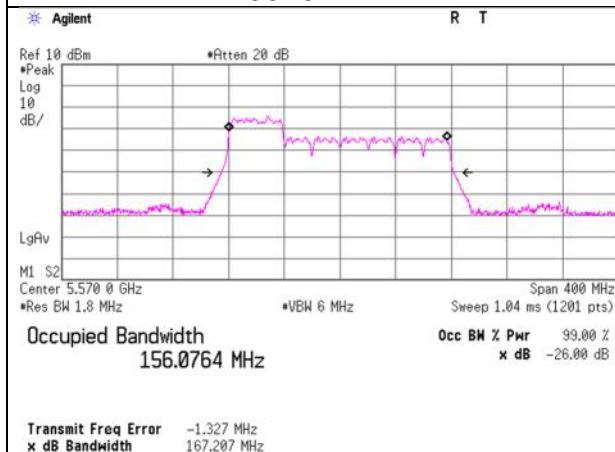


[996-tone]

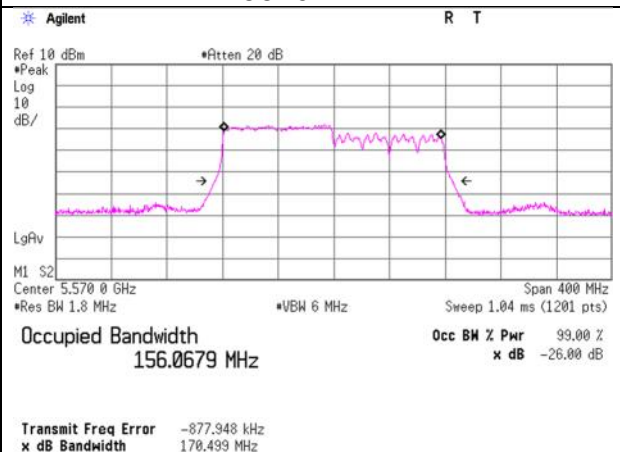
Segment 0
RU Index 67
5250 MHz



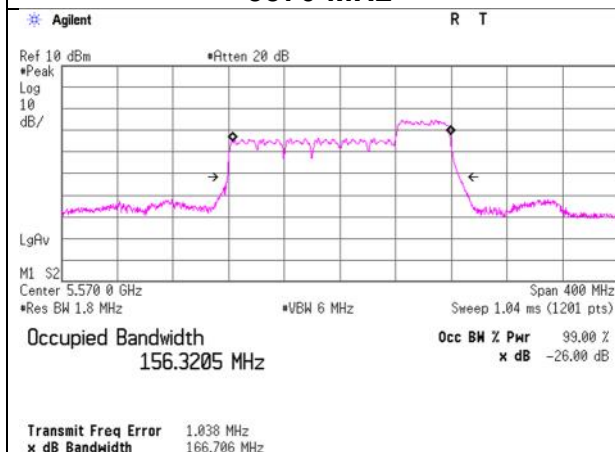
Segment 0
RU Index 65
5570 MHz



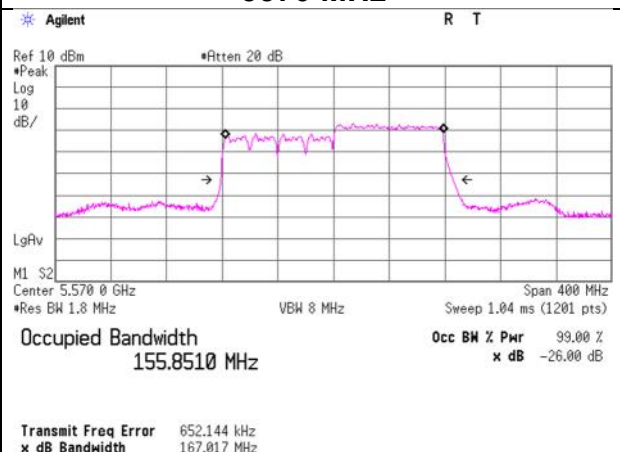
Segment 0
RU Index 67
5570 MHz



Segment 1
RU Index 67
5570 MHz

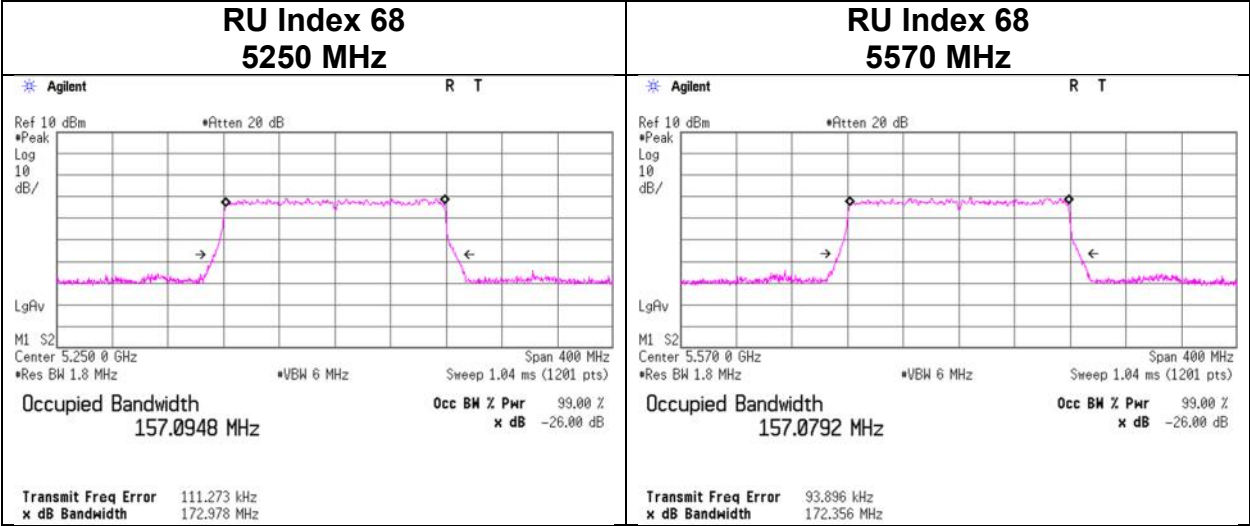


Segment 1
RU Index 67
5570 MHz



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-160 (OFDMA)
[2x996-tone]



6 dB Bandwidth

Test place	Shonan EMC Lab. No.8 Shielded Room		
Date	June 7, 2024	June 8, 2024	June 12, 2024
Temperature / Humidity	24 deg. C / 43 % RH	24 deg. C / 36 % RH	22 deg. C / 50 % RH
Engineer	Hiromasa Sato	Takayuki Kobayashi	Hiromasa Sato
Mode	Tx		

11a

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	16.531	> 0.500
5785	16.537	> 0.500
5825	16.557	> 0.500

11ax-20(OFDM)

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	19.093	> 0.500
5785	19.195	> 0.500
5825	19.157	> 0.500

11ax-20(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
26-tone RU	5745	0	2.021	> 0.500
	5785	4	2.639	> 0.500
	5825	8	2.049	> 0.500

11ax-20(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
52-tone RU	5745	37	4.046	> 0.500
	5785	38	4.156	> 0.500
	5825	40	4.086	> 0.500

11ax-20(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
106-tone RU	5745	53	8.322	> 0.500
	5785	53	8.322	> 0.500
	5825	54	8.353	> 0.500

11ax-20(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
242-tone RU	5745	61	19.150	> 0.500
	5785	61	19.165	> 0.500
	5825	61	19.153	> 0.500

6 dB Bandwidth

Test place	Shonan EMC Lab. No.8 Shielded Room			
Date	June 7, 2024	June 8, 2024	June 9, 2024	June 12, 2024
Temperature / Humidity	24 deg. C / 43 % RH	24 deg. C / 36 % RH	24 deg. C / 45 % RH	22 deg. C / 50 % RH
Engineer	Hiromasa Sato	Takayuki Kobayashi	Yohsuke Matsuzawa	Hiromasa Sato
Mode	Tx			

11n-40

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.591	> 0.500
5795	36.593	> 0.500

11ax-40(OFDM)

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	38.226	> 0.500
5795	38.229	> 0.500

11ax-40(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
26-tone RU	5755	0	2.048	> 0.500
	5795	17	2.064	> 0.500

11ax-40(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
52-tone RU	5755	37	4.108	> 0.500
	5795	44	4.104	> 0.500

11ax-40(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
106-tone RU	5755	53	8.295	> 0.500
	5795	56	8.276	> 0.500

11ax-40(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
242-tone RU	5755	61	18.898	> 0.500
	5795	62	18.909	> 0.500

11ax-40(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
484-tone RU	5755	65	38.248	> 0.500
	5795	65	38.233	> 0.500

6 dB Bandwidth

Test place	Shonan EMC Lab. No.8 Shielded Room		June 12, 2024
Date	June 7, 2024	June 9, 2024	
Temperature / Humidity	24 deg. C / 43 % RH	24 deg. C / 45 % RH	22 deg. C / 50 % RH
Engineer	Hiromasa Sato	Yohsuke Matsuzawa	Hiromasa Sato
Mode	Tx		

11ac-80

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	76.628	> 0.500

11ax-80(OFDM)

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	78.252	> 0.500

11ax-80(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
26-tone RU	5775	36	2.061	> 0.500

11ax-80(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
52-tone RU	5775	52	4.117	> 0.500

11ax-80(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
106-tone RU	5775	60	8.290	> 0.500

11ax-80(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
242-tone RU	5775	64	18.914	> 0.500

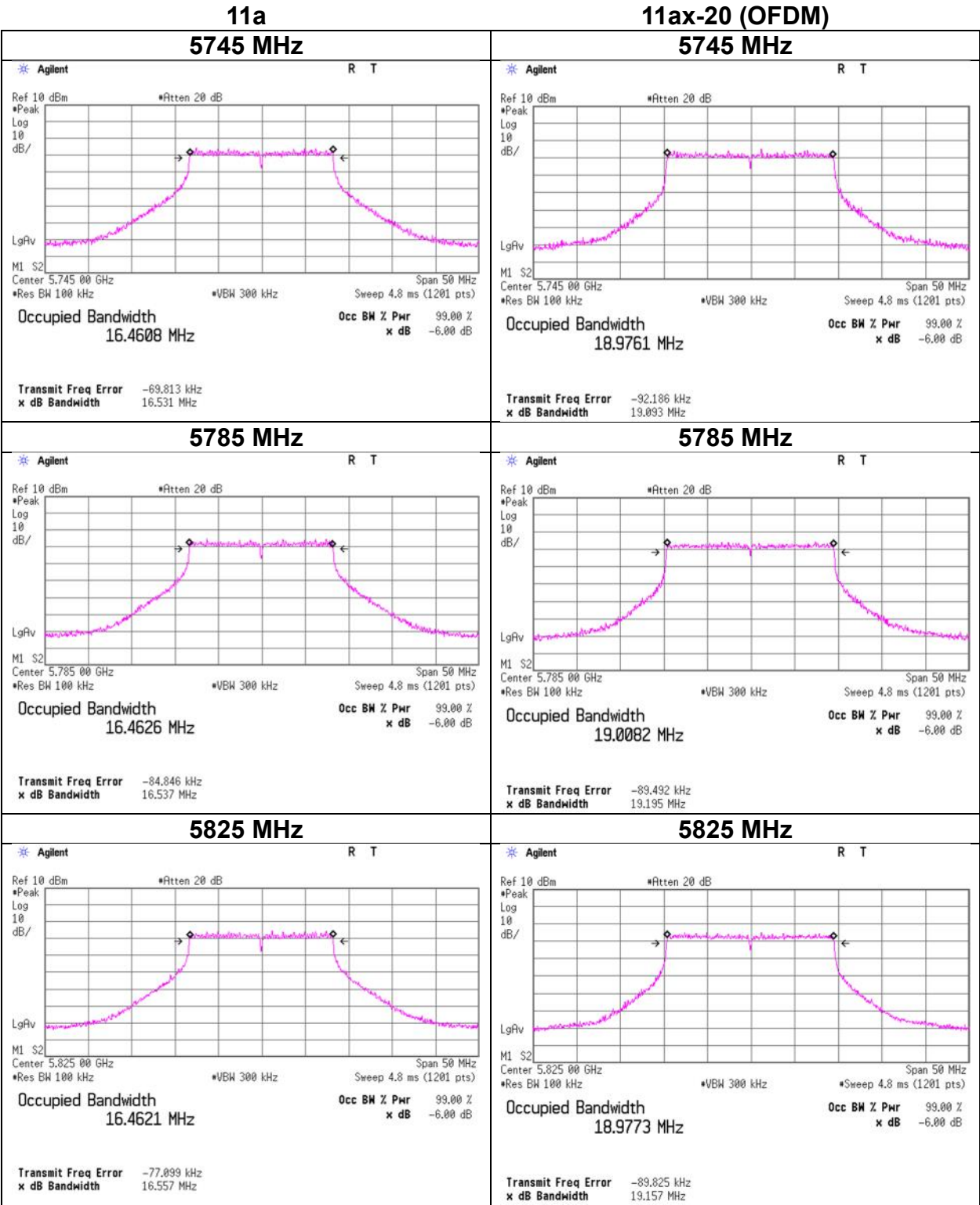
11ax-80(OFDMA)

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
484-tone RU	5775	66	37.903	> 0.500

11ax-80(OFDMA)

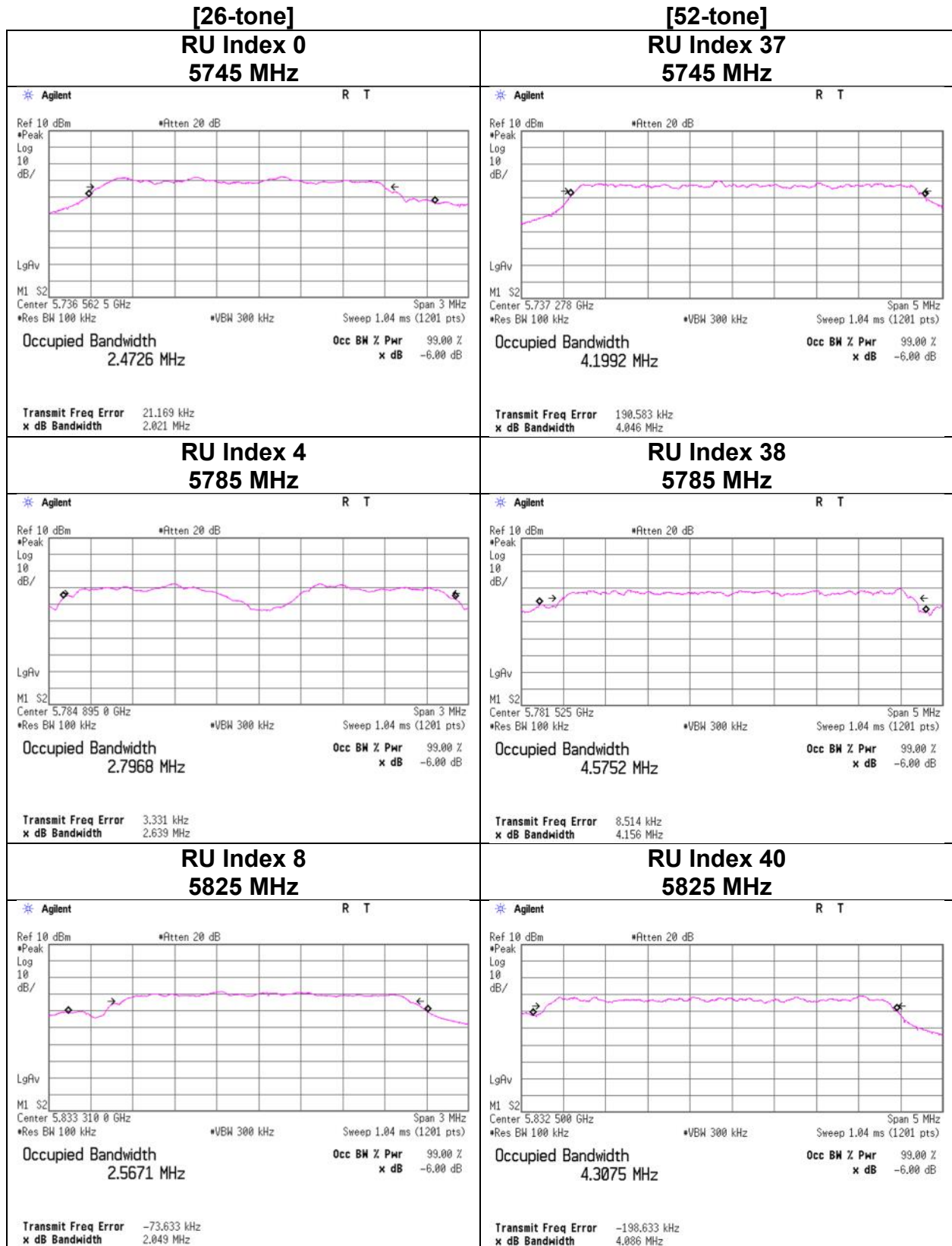
RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
996-tone RU	5775	67	78.305	> 0.500

6 dB Bandwidth



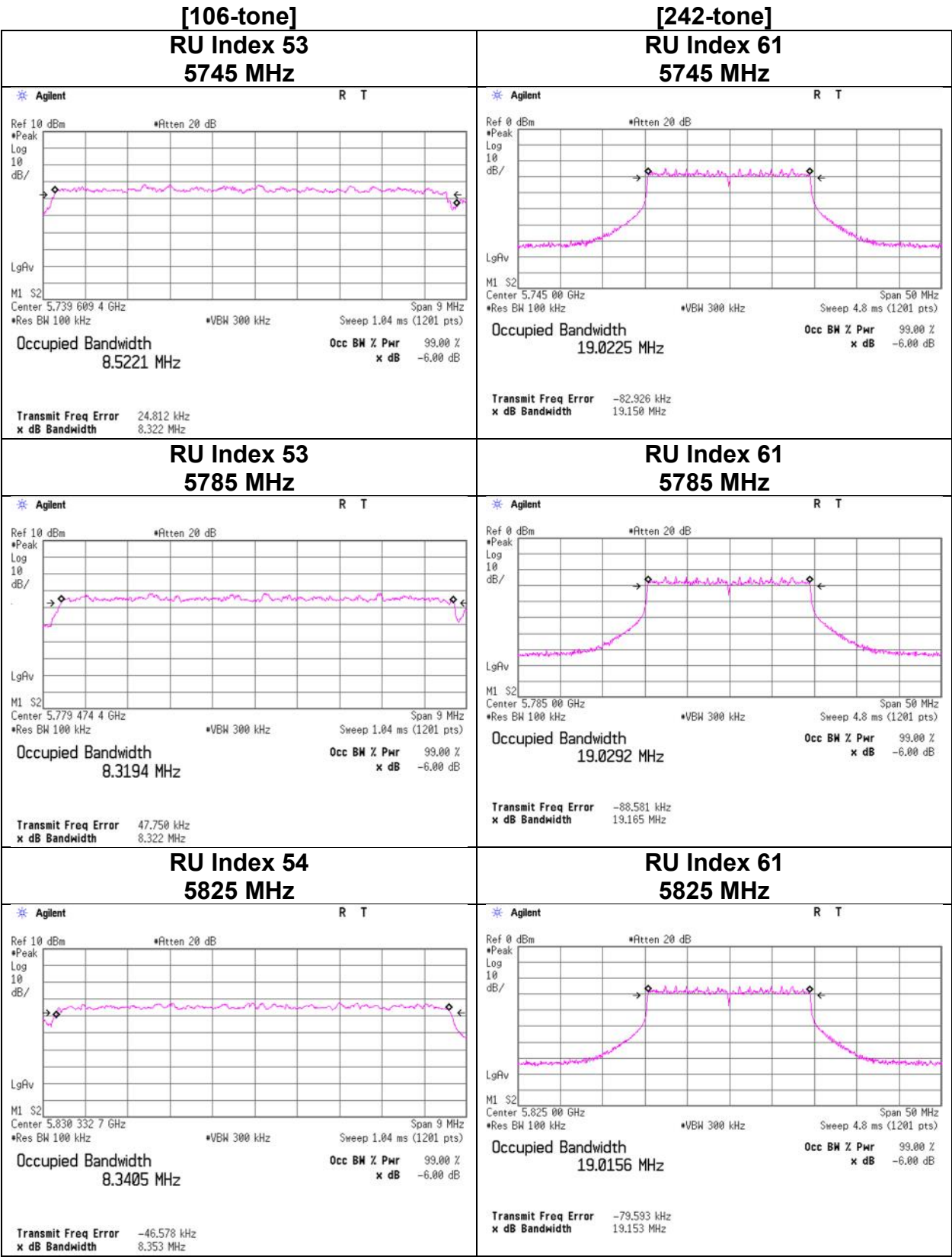
6 dB Bandwidth

11ax-20

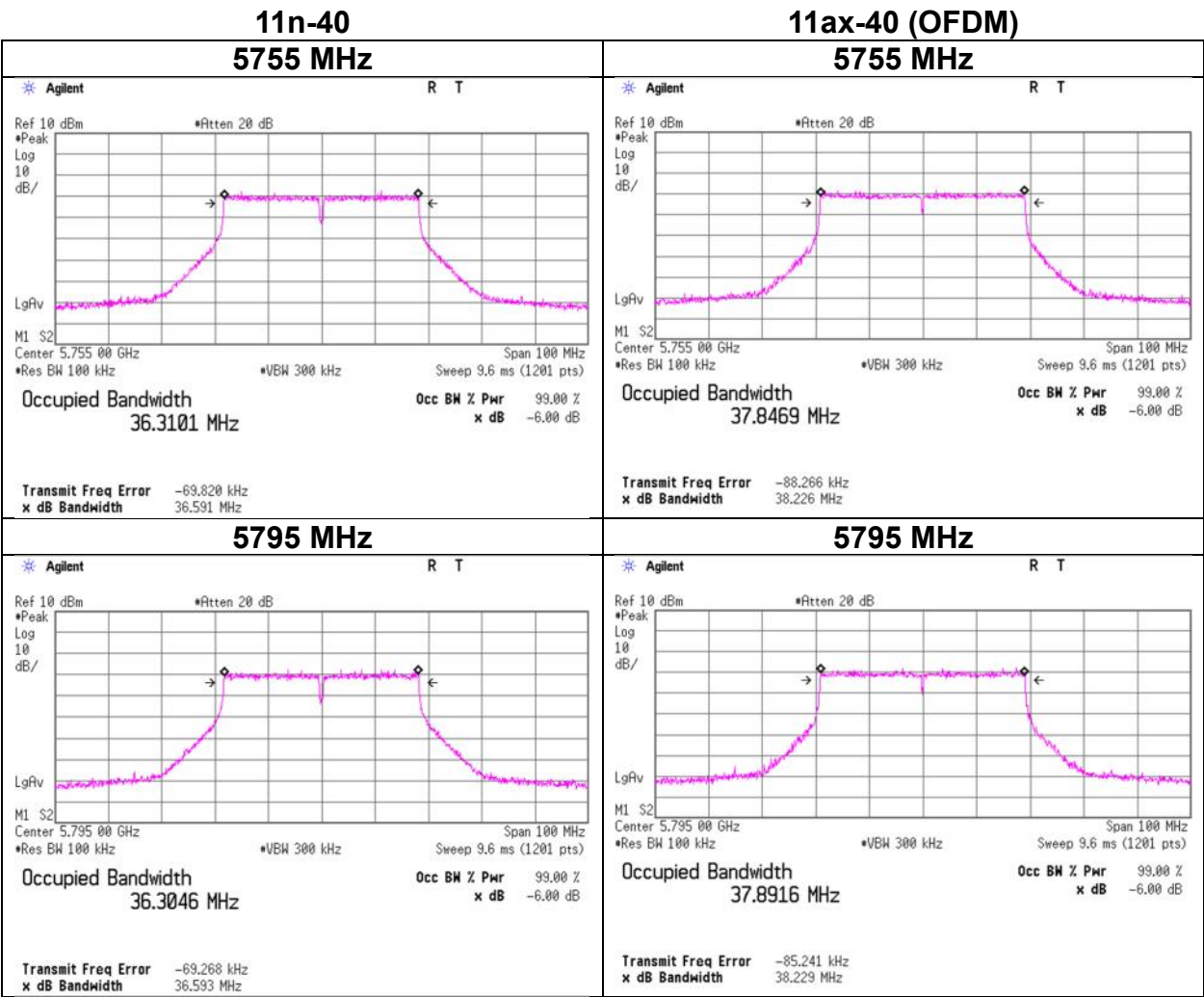


6 dB Bandwidth

11ax-20

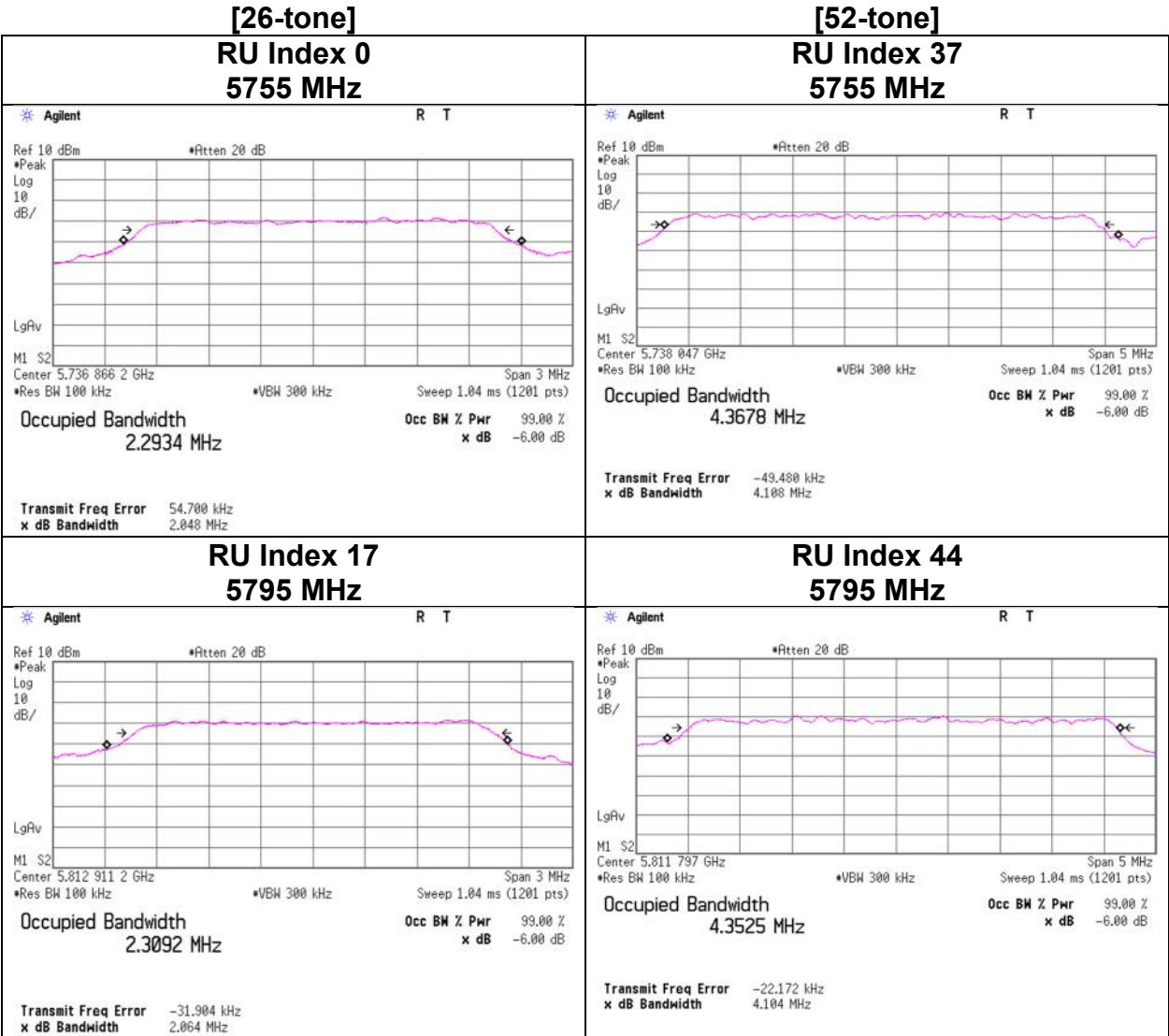


6 dB Bandwidth



6 dB Bandwidth

11ax-40

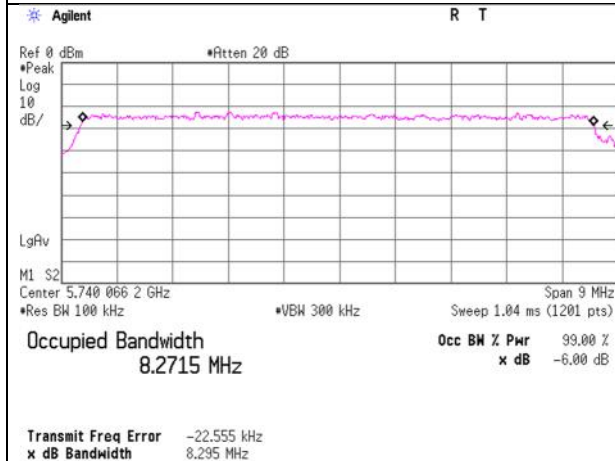


6 dB Bandwidth

11ax-40

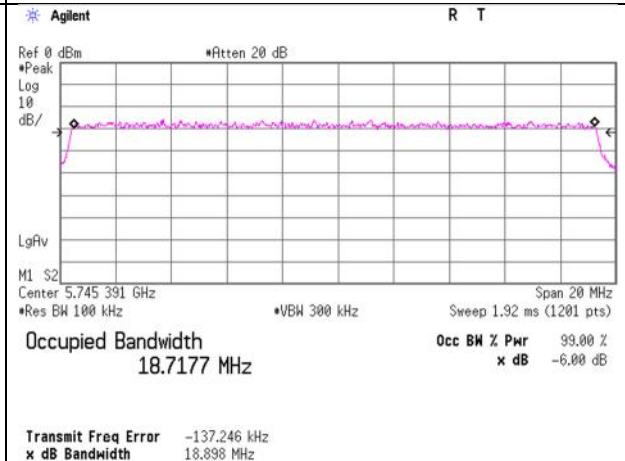
[106-tone]

RU Index 53
5755 MHz

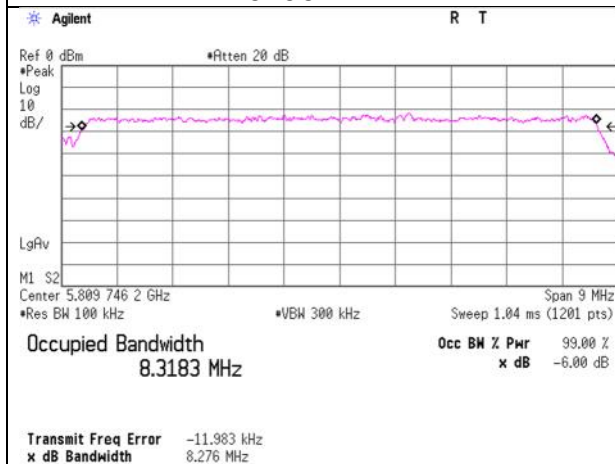


[242-tone]

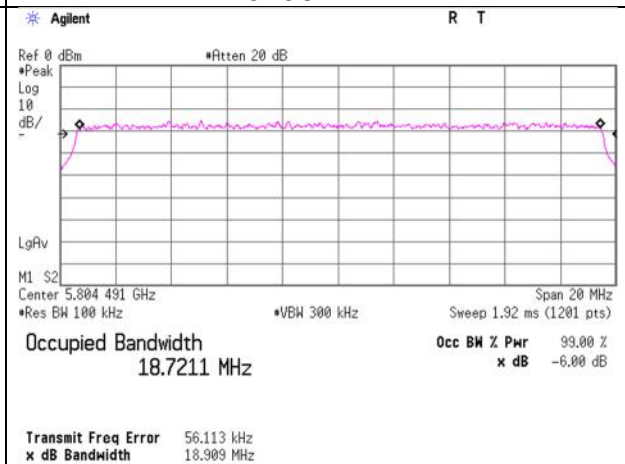
RU Index 61
5755 MHz



RU Index 56
5795 MHz



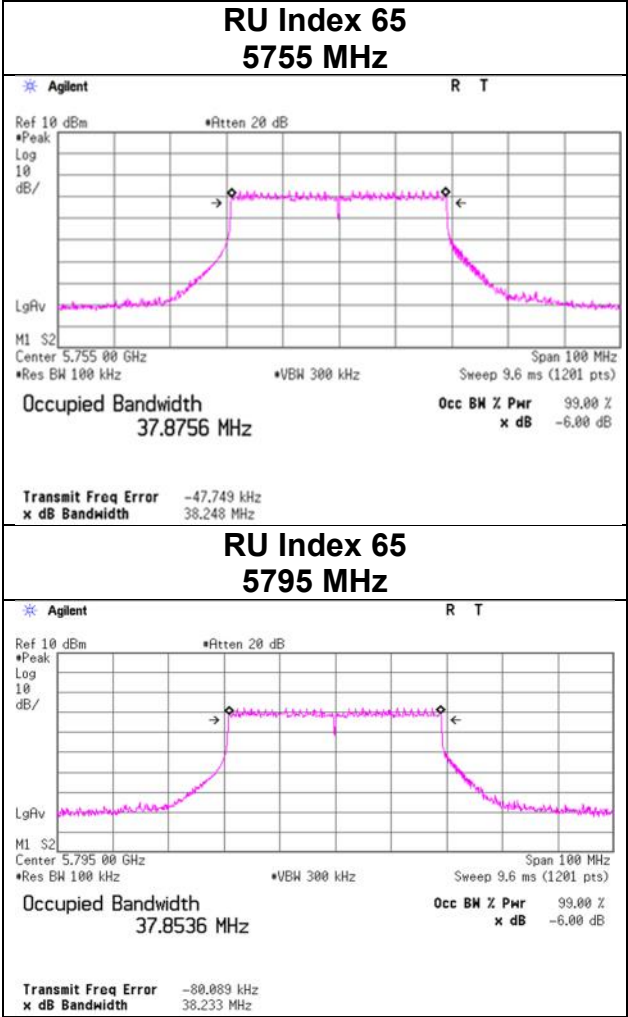
RU Index 62
5795 MHz



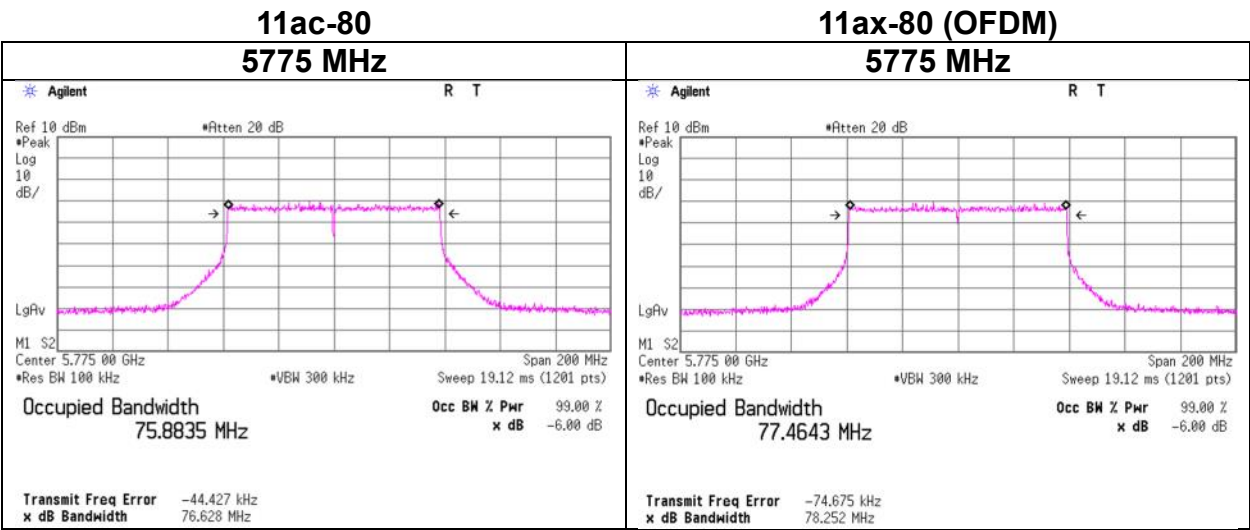
6 dB Bandwidth

11ax-40
[484-tone]

RU Index 65
5755 MHz

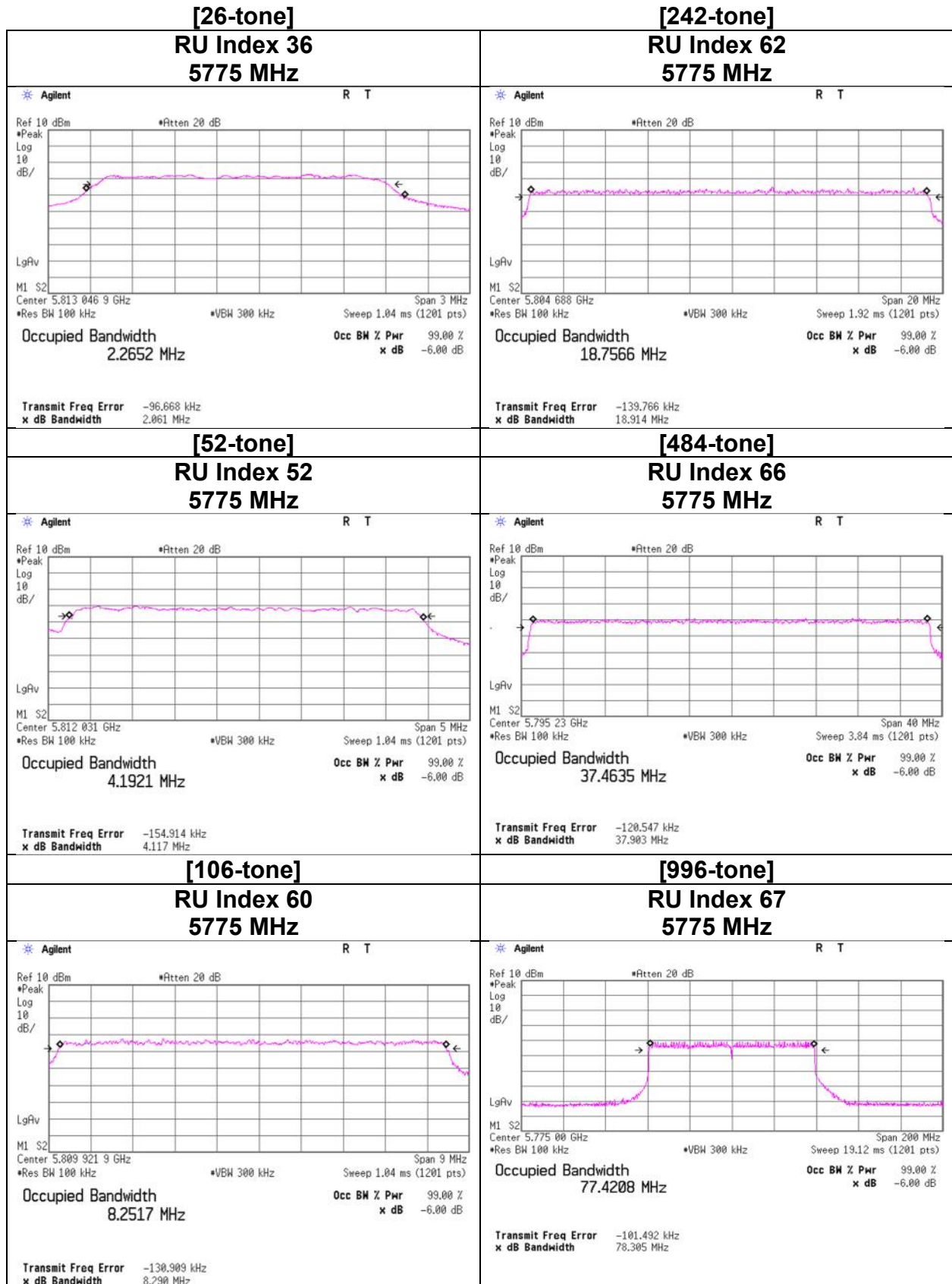


6 dB Bandwidth



6 dB Bandwidth

11ax-80



Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 24, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11a

[High Power mode]

11a (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	13.03	11.95	24.98	13.98	23.97	9.99	16.90	15.51	32.40	15.11	29.97	14.86
5220	12.41	11.24	23.64	13.74	23.97	10.23	16.10	14.58	30.67	14.87	29.97	15.10
5240	12.99	11.58	24.57	13.90	23.97	10.07	16.84	15.03	31.87	15.03	29.97	14.94
5260	12.63	11.64	24.27	13.85	23.97	10.12	16.38	15.10	31.48	14.98	29.97	14.99
5300	13.77	11.62	25.40	14.05	23.97	9.92	17.87	15.07	32.94	15.18	29.97	14.79
5320	13.58	12.20	25.78	14.11	23.97	9.86	17.62	15.83	33.44	15.24	29.97	14.73
5500	13.07	13.82	26.89	14.30	23.97	9.67	16.95	17.93	34.88	15.43	29.97	14.54
5580	12.06	13.19	25.25	14.02	23.97	9.95	15.64	17.11	32.76	15.15	29.97	14.82
5700	10.66	11.53	22.19	13.46	23.97	10.51	13.83	14.95	28.78	14.59	29.97	15.38
5720	11.60	12.32	23.92	13.79	23.97	10.18	15.05	15.98	31.03	14.92	29.97	15.05
5745	12.37	11.26	23.62	13.73	30.00	16.27	16.04	14.60	30.64	14.86	36.00	21.14
5785	13.63	12.44	26.08	14.16	30.00	15.84	17.69	16.14	33.83	15.29	36.00	20.71
5825	12.44	11.21	23.65	13.74	30.00	16.26	16.14	14.54	30.68	14.87	36.00	21.13

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-10.93	1.91	20.17	1.13	11.15	12.28	-11.35	1.95	20.18	1.13	10.77	11.90
5220	0.00	-11.14	1.91	20.17	1.13	10.94	12.07	-11.62	1.95	20.18	1.13	10.51	11.64
5240	0.00	-10.94	1.91	20.17	1.13	11.13	12.26	-11.49	1.95	20.18	1.13	10.64	11.77
5260	0.00	-11.07	1.91	20.17	1.13	11.01	12.14	-11.48	1.96	20.18	1.13	10.66	11.79
5300	0.00	-10.69	1.91	20.17	1.13	11.39	12.52	-11.49	1.96	20.18	1.13	10.65	11.78
5320	0.00	-10.75	1.91	20.17	1.13	11.33	12.46	-11.28	1.97	20.18	1.13	10.86	11.99
5500	0.00	-10.86	1.94	20.08	1.13	11.16	12.29	-10.73	2.03	20.11	1.13	11.41	12.54
5580	0.00	-10.92	1.93	19.80	1.13	10.81	11.94	-10.71	2.01	19.90	1.13	11.20	12.33
5700	0.00	-11.33	1.91	19.69	1.13	10.28	11.41	-11.28	1.99	19.91	1.13	10.62	11.75
5720	0.00	-11.43	1.91	20.17	1.13	10.65	11.78	-11.25	1.98	20.17	1.13	10.91	12.04
5745	0.00	-11.17	1.93	20.17	1.13	10.92	12.05	-11.66	2.00	20.17	1.13	10.51	11.64
5785	0.00	-10.74	1.92	20.17	1.13	11.35	12.48	-11.21	1.99	20.17	1.13	10.95	12.08
5825	0.00	-11.13	1.91	20.17	1.13	10.95	12.08	-11.65	1.97	20.17	1.13	10.50	11.63

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11n-20 (CDD)

[High Power mode]

11n-20 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	12.73	11.57	24.30	13.86	23.97	10.11	16.51	15.01	31.53	14.99	29.97	14.98
5220	12.13	11.21	23.34	13.68	23.97	10.29	15.73	14.54	30.27	14.81	29.97	15.16
5240	12.84	11.69	24.53	13.90	23.97	10.07	16.65	15.17	31.82	15.03	29.97	14.94
5260	12.43	11.56	23.99	13.80	23.97	10.17	16.12	15.00	31.12	14.93	29.97	15.04
5300	13.97	12.03	26.00	14.15	23.97	9.82	18.12	15.60	33.72	15.28	29.97	14.69
5320	13.61	11.36	24.97	13.97	23.97	10.00	17.66	14.74	32.39	15.10	29.97	14.87
5500	13.22	13.67	26.88	14.29	23.97	9.68	17.15	17.73	34.87	15.42	29.97	14.55
5580	12.26	13.25	25.51	14.07	23.97	9.90	15.90	17.19	33.09	15.20	29.97	14.77
5700	10.83	11.50	22.33	13.49	23.97	10.48	14.05	14.92	28.97	14.62	29.97	15.35
5720	11.74	11.95	23.69	13.75	23.97	10.22	15.23	15.51	30.73	14.88	29.97	15.09
5745	12.51	12.72	25.23	14.02	30.00	15.98	16.23	16.50	32.73	15.15	36.00	20.85
5785	13.32	14.03	27.35	14.37	30.00	15.63	17.28	18.20	35.48	15.50	36.00	20.50
5825	12.70	12.87	25.57	14.08	30.00	15.92	16.48	16.69	33.17	15.21	36.00	20.79

		5G_CH0						5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-11.03	1.91	20.17	1.13	11.05	12.18	-11.49	1.95	20.18	1.13	10.63	11.76
5220	0.00	-11.24	1.91	20.17	1.13	10.84	11.97	-11.63	1.95	20.18	1.13	10.50	11.63
5240	0.00	-10.99	1.91	20.17	1.13	11.08	12.21	-11.45	1.95	20.18	1.13	10.68	11.81
5260	0.00	-11.14	1.91	20.17	1.13	10.94	12.07	-11.51	1.96	20.18	1.13	10.63	11.76
5300	0.00	-10.63	1.91	20.17	1.13	11.45	12.58	-11.34	1.96	20.18	1.13	10.80	11.93
5320	0.00	-10.74	1.91	20.17	1.13	11.34	12.47	-11.59	1.97	20.18	1.13	10.55	11.68
5500	0.00	-10.81	1.94	20.08	1.13	11.21	12.34	-10.78	2.03	20.11	1.13	11.36	12.49
5580	0.00	-10.85	1.93	19.80	1.13	10.88	12.01	-10.69	2.01	19.90	1.13	11.22	12.35
5700	0.00	-11.26	1.91	19.69	1.13	10.35	11.48	-11.29	1.99	19.91	1.13	10.61	11.74
5720	0.00	-11.38	1.91	20.17	1.13	10.70	11.83	-11.38	1.98	20.17	1.13	10.78	11.91
5745	0.00	-11.12	1.93	20.17	1.13	10.97	12.10	-11.13	2.00	20.17	1.13	11.04	12.17
5785	0.00	-10.84	1.92	20.17	1.13	11.25	12.38	-10.69	1.99	20.17	1.13	11.47	12.60
5825	0.00	-11.04	1.91	20.17	1.13	11.04	12.17	-11.05	1.97	20.17	1.13	11.10	12.23

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11n-20 (SDM)

[High Power mode]

11n-20 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	12.56	11.28	23.84	13.77	23.97	10.20	14.12	14.64	28.76	14.59	29.97	15.38
5220	12.18	11.21	23.39	13.69	23.97	10.28	13.70	14.54	28.24	14.51	29.97	15.46
5240	12.90	11.91	24.80	13.95	23.97	10.02	14.50	15.45	29.95	14.76	29.97	15.21
5260	12.54	11.61	24.16	13.83	23.97	10.14	14.10	15.07	29.17	14.65	29.97	15.32
5300	13.87	11.73	25.60	14.08	23.97	9.89	15.60	15.21	30.81	14.89	29.97	15.08
5320	13.36	11.41	24.78	13.94	23.97	10.03	15.03	14.80	29.83	14.75	29.97	15.22
5500	13.10	13.48	26.58	14.24	23.97	9.73	14.73	17.48	32.21	15.08	29.97	14.89
5580	12.06	13.19	25.25	14.02	23.97	9.95	13.56	17.11	30.68	14.87	29.97	15.10
5700	10.69	11.39	22.08	13.44	23.97	10.53	12.02	14.78	26.80	14.28	29.97	15.69
5720	11.76	11.93	23.69	13.75	23.97	10.22	13.23	15.47	28.70	14.58	29.97	15.39
5745	11.05	11.15	22.20	13.46	30.00	16.54	12.43	14.47	26.89	14.30	36.00	21.70
5785	11.77	11.86	23.62	13.73	30.00	16.27	13.23	15.38	28.61	14.57	36.00	21.43
5825	11.09	10.70	21.79	13.38	30.00	16.62	12.47	13.89	26.36	14.21	36.00	21.79

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-11.09	1.91	20.17	0.51	10.99	11.50	-11.60	1.95	20.18	1.13	10.52	11.65
5220	0.00	-11.22	1.91	20.17	0.51	10.86	11.37	-11.63	1.95	20.18	1.13	10.50	11.63
5240	0.00	-10.97	1.91	20.17	0.51	11.10	11.61	-11.37	1.95	20.18	1.13	10.76	11.89
5260	0.00	-11.10	1.91	20.17	0.51	10.98	11.49	-11.49	1.96	20.18	1.13	10.65	11.78
5300	0.00	-10.66	1.91	20.17	0.51	11.42	11.93	-11.45	1.96	20.18	1.13	10.69	11.82
5320	0.00	-10.82	1.91	20.17	0.51	11.26	11.77	-11.57	1.97	20.18	1.13	10.57	11.70
5500	0.00	-10.85	1.94	20.08	0.51	11.17	11.68	-10.84	2.03	20.11	1.13	11.30	12.43
5580	0.00	-10.92	1.93	19.80	0.51	10.81	11.32	-10.71	2.01	19.90	1.13	11.20	12.33
5700	0.00	-11.32	1.91	19.69	0.51	10.29	10.80	-11.33	1.99	19.91	1.13	10.57	11.70
5720	0.00	-11.37	1.91	20.17	0.51	10.71	11.22	-11.39	1.98	20.17	1.13	10.77	11.90
5745	0.00	-11.66	1.93	20.17	0.51	10.43	10.94	-11.70	2.00	20.17	1.13	10.47	11.60
5785	0.00	-11.38	1.92	20.17	0.51	10.71	11.22	-11.42	1.99	20.17	1.13	10.74	11.87
5825	0.00	-11.63	1.91	20.17	0.51	10.45	10.96	-11.85	1.97	20.17	1.13	10.30	11.43

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ac-20 (CDD)

[High Power mode]

11ac-20 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	12.61	11.28	23.90	13.78	23.97	10.19	16.36	14.64	31.00	14.91	29.97	15.06
5220	12.29	11.06	23.35	13.68	23.97	10.29	15.95	14.34	30.29	14.81	29.97	15.16
5240	12.78	11.45	24.23	13.84	23.97	10.13	16.58	14.85	31.43	14.97	29.97	15.00
5260	12.40	11.43	23.83	13.77	23.97	10.20	16.08	14.82	30.91	14.90	29.97	15.07
5300	13.90	11.54	25.44	14.06	23.97	9.91	18.03	14.97	33.00	15.19	29.97	14.78
5320	13.80	11.41	25.21	14.02	23.97	9.95	17.90	14.80	32.71	15.15	29.97	14.82
5500	13.19	13.67	26.85	14.29	23.97	9.68	17.11	17.73	34.83	15.42	29.97	14.55
5580	12.03	13.25	25.29	14.03	23.97	9.94	15.61	17.19	32.80	15.16	29.97	14.81
5700	10.98	11.19	22.17	13.46	23.97	10.51	14.25	14.51	28.76	14.59	29.97	15.38
5720	11.79	11.71	23.50	13.71	23.97	10.26	15.30	15.19	30.48	14.84	29.97	15.13
5745	11.76	11.73	23.49	13.71	30.00	16.29	15.25	15.22	30.47	14.84	36.00	21.16
5785	12.46	12.50	24.96	13.97	30.00	16.03	16.17	16.22	32.38	15.10	36.00	20.90
5825	11.88	11.26	23.14	13.64	30.00	16.36	15.41	14.61	30.02	14.77	36.00	21.23

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-11.07	1.91	20.17	1.13	11.01	12.14	-11.60	1.95	20.18	1.13	10.52	11.65
5220	0.00	-11.18	1.91	20.17	1.13	10.90	12.03	-11.69	1.95	20.18	1.13	10.44	11.57
5240	0.00	-11.01	1.91	20.17	1.13	11.06	12.19	-11.54	1.95	20.18	1.13	10.59	11.72
5260	0.00	-11.15	1.91	20.17	1.13	10.93	12.06	-11.56	1.96	20.18	1.13	10.58	11.71
5300	0.00	-10.65	1.91	20.17	1.13	11.43	12.56	-11.52	1.96	20.18	1.13	10.62	11.75
5320	0.00	-10.68	1.91	20.17	1.13	11.40	12.53	-11.57	1.97	20.18	1.13	10.57	11.70
5500	0.00	-10.82	1.94	20.08	1.13	11.20	12.33	-10.78	2.03	20.11	1.13	11.36	12.49
5580	0.00	-10.93	1.93	19.80	1.13	10.80	11.93	-10.69	2.01	19.90	1.13	11.22	12.35
5700	0.00	-11.20	1.91	19.69	1.13	10.41	11.54	-11.41	1.99	19.91	1.13	10.49	11.62
5720	0.00	-11.36	1.91	20.17	1.13	10.72	11.85	-11.47	1.98	20.17	1.13	10.69	11.82
5745	0.00	-11.39	1.93	20.17	1.13	10.70	11.83	-11.48	2.00	20.17	1.13	10.69	11.82
5785	0.00	-11.13	1.92	20.17	1.13	10.96	12.09	-11.19	1.99	20.17	1.13	10.97	12.10
5825	0.00	-11.33	1.91	20.17	1.13	10.75	11.88	-11.63	1.97	20.17	1.13	10.52	11.65

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ac-20 (SDM)

[High Power mode]

11ac-20 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	12.64	11.49	24.14	13.83	23.97	10.14	14.22	14.91	29.13	14.64	29.97	15.33
5220	12.38	11.08	23.46	13.70	23.97	10.27	13.92	14.38	28.30	14.52	29.97	15.45
5240	12.84	11.66	24.50	13.89	23.97	10.08	14.44	15.13	29.57	14.71	29.97	15.26
5260	12.74	11.38	24.12	13.82	23.97	10.15	14.33	14.76	29.09	14.64	29.97	15.33
5300	13.97	11.84	25.80	14.12	23.97	9.85	15.71	15.35	31.06	14.92	29.97	15.05
5320	13.87	11.76	25.63	14.09	23.97	9.88	15.59	15.25	30.85	14.89	29.97	15.08
5500	13.37	13.70	27.07	14.32	23.97	9.65	15.04	17.77	32.81	15.16	29.97	14.81
5580	12.17	13.25	25.43	14.05	23.97	9.92	13.69	17.19	30.88	14.90	29.97	15.07
5700	10.66	11.26	21.92	13.41	23.97	10.56	11.99	14.61	26.60	14.25	29.97	15.72
5720	11.74	12.01	23.75	13.76	23.97	10.21	13.20	15.58	28.78	14.59	29.97	15.38
5745	11.62	11.65	23.27	13.67	30.00	16.33	13.07	15.11	28.19	14.50	36.00	21.50
5785	12.01	12.47	24.48	13.89	30.00	16.11	13.51	16.18	29.69	14.73	36.00	21.27
5825	11.59	11.39	22.98	13.61	30.00	16.39	13.03	14.78	27.80	14.44	36.00	21.56

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-11.06	1.91	20.17	0.51	11.02	11.53	-11.52	1.95	20.18	1.13	10.60	11.73
5220	0.00	-11.15	1.91	20.17	0.51	10.93	11.44	-11.68	1.95	20.18	1.13	10.45	11.58
5240	0.00	-10.99	1.91	20.17	0.51	11.08	11.59	-11.46	1.95	20.18	1.13	10.67	11.80
5260	0.00	-11.03	1.91	20.17	0.51	11.05	11.56	-11.58	1.96	20.18	1.13	10.56	11.69
5300	0.00	-10.63	1.91	20.17	0.51	11.45	11.96	-11.41	1.96	20.18	1.13	10.73	11.86
5320	0.00	-10.66	1.91	20.17	0.51	11.42	11.93	-11.44	1.97	20.18	1.13	10.70	11.83
5500	0.00	-10.76	1.94	20.08	0.51	11.26	11.77	-10.77	2.03	20.11	1.13	11.37	12.50
5580	0.00	-10.88	1.93	19.80	0.51	10.85	11.36	-10.69	2.01	19.90	1.13	11.22	12.35
5700	0.00	-11.33	1.91	19.69	0.51	10.28	10.79	-11.38	1.99	19.91	1.13	10.52	11.65
5720	0.00	-11.38	1.91	20.17	0.51	10.70	11.21	-11.36	1.98	20.17	1.13	10.80	11.93
5745	0.00	-11.44	1.93	20.17	0.51	10.65	11.16	-11.51	2.00	20.17	1.13	10.66	11.79
5785	0.00	-11.29	1.92	20.17	0.51	10.80	11.31	-11.20	1.99	20.17	1.13	10.96	12.09
5825	0.00	-11.44	1.91	20.17	0.51	10.64	11.15	-11.58	1.97	20.17	1.13	10.57	11.70

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 27, 2023
Temperature / Humidity 25 deg. C / 44 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDM) (CDD)

[High Power mode]

11ax-20 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	5G_CH0	Antenna	Sum	Result	Limit	Margin	5G_CH0	5G_CH1	Sum	Result	Limit	Margin
[MHz]	[mW]	5G_CH1 [mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	12.88	11.60	24.48	13.89	23.97	10.08	16.70	15.05	31.75	15.02	29.97	14.95
5220	12.55	11.44	24.00	13.80	23.97	10.17	16.28	14.85	31.13	14.93	29.97	15.04
5240	12.87	11.88	24.75	13.94	23.97	10.03	16.69	15.41	32.10	15.07	29.97	14.90
5260	12.66	11.48	24.14	13.83	23.97	10.14	16.42	14.89	31.31	14.96	29.97	15.01
5300	13.97	11.67	25.64	14.09	23.97	9.88	18.12	15.14	33.26	15.22	29.97	14.75
5320	13.83	11.73	25.57	14.08	23.97	9.89	17.95	15.22	33.16	15.21	29.97	14.76
5500	13.25	13.89	27.14	14.34	23.97	9.63	17.18	18.02	35.20	15.47	29.97	14.50
5580	12.12	13.25	25.37	14.04	23.97	9.93	15.72	17.19	32.91	15.17	29.97	14.80
5700	10.88	11.66	22.54	13.53	23.97	10.44	14.12	15.12	29.24	14.66	29.97	15.31
5720	11.85	12.04	23.88	13.78	23.97	10.19	15.37	15.61	30.98	14.91	29.97	15.06
5745	11.65	11.95	23.60	13.73	30.00	16.27	15.11	15.50	30.61	14.86	36.00	21.14
5785	12.38	12.62	24.99	13.98	30.00	16.02	16.05	16.37	32.42	15.11	36.00	20.89
5825	11.83	11.44	23.27	13.67	30.00	16.33	15.34	14.84	30.19	14.80	36.00	21.20

5G_CH0							5G_CH1						
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	0.00	-10.98	1.91	20.17	1.13	11.10	12.23	-11.48	1.95	20.18	1.13	10.64	11.77
5220	0.00	-11.09	1.91	20.17	1.13	10.99	12.12	-11.54	1.95	20.18	1.13	10.59	11.72
5240	0.00	-10.98	1.91	20.17	1.13	11.09	12.22	-11.38	1.95	20.18	1.13	10.75	11.88
5260	0.00	-11.06	1.91	20.17	1.13	11.02	12.15	-11.54	1.96	20.18	1.13	10.60	11.73
5300	0.00	-10.63	1.91	20.17	1.13	11.45	12.58	-11.47	1.96	20.18	1.13	10.67	11.80
5320	0.00	-10.67	1.91	20.17	1.13	11.41	12.54	-11.45	1.97	20.18	1.13	10.69	11.82
5500	0.00	-10.80	1.94	20.08	1.13	11.22	12.35	-10.71	2.03	20.11	1.13	11.43	12.56
5580	0.00	-10.90	1.93	19.80	1.13	10.83	11.96	-10.69	2.01	19.90	1.13	11.22	12.35
5700	0.00	-11.24	1.91	19.69	1.13	10.37	11.50	-11.23	1.99	19.91	1.13	10.67	11.80
5720	0.00	-11.34	1.91	20.17	1.13	10.74	11.87	-11.35	1.98	20.17	1.13	10.81	11.94
5745	0.00	-11.43	1.93	20.17	1.13	10.66	11.79	-11.40	2.00	20.17	1.13	10.77	11.90
5785	0.00	-11.16	1.92	20.17	1.13	10.93	12.06	-11.15	1.99	20.17	1.13	11.01	12.14
5825	0.00	-11.35	1.91	20.17	1.13	10.73	11.86	-11.56	1.97	20.17	1.13	10.59	11.72

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) <= 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (21.869 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 27, 2023
Temperature / Humidity 25 deg. C / 44 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDM) (SDM)

[High Power mode]

11ax-20 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna	Antenna	Sum	Result	Limit	Margin	Antenna	Antenna	Sum	Result	Limit	Margin
[MHz]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]
5180	12.88	11.26	24.14	13.83	23.97	10.14	14.48	14.60	29.09	14.64	29.97	15.33
5220	12.49	11.29	23.78	13.76	23.97	10.21	14.05	14.64	28.69	14.58	29.97	15.39
5240	12.99	11.83	24.81	13.95	23.97	10.02	14.60	15.34	29.94	14.76	29.97	15.21
5260	12.74	11.69	24.44	13.88	23.97	10.09	14.33	15.17	29.50	14.70	29.97	15.27
5300	14.06	11.62	25.68	14.10	23.97	9.87	15.82	15.07	30.89	14.90	29.97	15.07
5320	13.96	11.68	25.64	14.09	23.97	9.88	15.70	15.15	30.85	14.89	29.97	15.08
5500	13.40	13.79	27.19	14.34	23.97	9.63	15.07	17.89	32.96	15.18	29.97	14.79
5580	12.45	13.25	25.71	14.10	23.97	9.87	14.01	17.19	31.20	14.94	29.97	15.03
5700	10.96	11.55	22.51	13.52	23.97	10.45	12.32	14.99	27.31	14.36	29.97	15.61
5720	12.09	12.09	24.19	13.84	23.97	10.13	13.60	15.69	29.29	14.67	29.97	15.30
5745	11.70	11.90	23.60	13.73	30.00	16.27	13.16	15.43	28.59	14.56	36.00	21.44
5785	12.18	12.59	24.77	13.94	30.00	16.06	13.70	16.33	30.03	14.77	36.00	21.23
5825	11.51	11.55	23.05	13.63	30.00	16.37	12.94	14.98	27.92	14.46	36.00	21.54

5G_CH0							5G_CH1						
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]
5180	0.00	-10.98	1.91	20.17	0.51	11.10	11.61	-11.61	1.95	20.18	1.13	10.51	11.64
5220	0.00	-11.11	1.91	20.17	0.51	10.97	11.48	-11.60	1.95	20.18	1.13	10.53	11.66
5240	0.00	-10.94	1.91	20.17	0.51	11.13	11.64	-11.40	1.95	20.18	1.13	10.73	11.86
5260	0.00	-11.03	1.91	20.17	0.51	11.05	11.56	-11.46	1.96	20.18	1.13	10.68	11.81
5300	0.00	-10.60	1.91	20.17	0.51	11.48	11.99	-11.49	1.96	20.18	1.13	10.65	11.78
5320	0.00	-10.63	1.91	20.17	0.51	11.45	11.96	-11.47	1.97	20.18	1.13	10.67	11.80
5500	0.00	-10.75	1.94	20.08	0.51	11.27	11.78	-10.74	2.03	20.11	1.13	11.40	12.53
5580	0.00	-10.78	1.93	19.80	0.51	10.95	11.46	-10.69	2.01	19.90	1.13	11.22	12.35
5700	0.00	-11.21	1.91	19.69	0.51	10.40	10.91	-11.27	1.99	19.91	1.13	10.63	11.76
5720	0.00	-11.25	1.91	20.17	0.51	10.83	11.34	-11.33	1.98	20.17	1.13	10.83	11.96
5745	0.00	-11.41	1.93	20.17	0.51	10.68	11.19	-11.42	2.00	20.17	1.13	10.75	11.88
5785	0.00	-11.23	1.92	20.17	0.51	10.86	11.37	-11.16	1.99	20.17	1.13	11.00	12.13
5825	0.00	-11.47	1.91	20.17	0.51	10.61	11.12	-11.52	1.97	20.17	1.13	10.63	11.76

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (21.869 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (CDD)

[High Power mode]

11ax-20 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	0	2.77	2.47	5.25	7.20	23.97	16.77	3.60	3.21	6.81	8.33	29.97	21.64
	4	2.44	2.27	4.70	6.72	23.97	17.25	3.16	2.94	6.10	7.85	29.97	22.12
	8	2.66	2.50	5.16	7.12	23.97	16.85	3.44	3.24	6.69	8.25	29.97	21.72
5220	0	3.05	2.41	5.45	7.37	23.97	16.60	3.95	3.12	7.07	8.50	29.97	21.47
	4	2.68	2.18	4.86	6.87	23.97	17.10	3.48	2.83	6.30	8.00	29.97	21.97
	8	3.01	2.43	5.44	7.36	23.97	16.61	3.90	3.16	7.06	8.49	29.97	21.48
5240	0	3.07	2.75	5.81	7.65	23.97	16.32	3.98	3.56	7.54	8.78	29.97	21.19
	4	2.72	2.34	5.06	7.04	23.97	16.93	3.52	3.04	6.56	8.17	29.97	21.80
	8	2.87	2.35	5.22	7.18	23.97	16.79	3.72	3.05	6.78	8.31	29.97	21.66
5260	0	9.07	9.31	18.38	12.64	23.75	11.11	11.77	12.08	23.85	13.77	29.97	16.20
	4	8.13	8.61	16.73	12.24	23.75	11.51	10.54	11.17	21.71	13.37	29.97	16.60
	8	9.16	9.48	18.64	12.70	23.75	11.05	11.88	12.30	24.18	13.83	29.97	16.14
5300	0	10.41	9.15	19.56	12.91	23.75	10.84	13.51	11.87	25.38	14.04	29.97	15.93
	4	9.13	8.25	17.38	12.40	23.75	11.35	11.85	10.70	22.55	13.53	29.97	16.44
	8	10.34	9.09	19.43	12.88	23.75	10.87	13.42	11.79	25.20	14.01	29.97	15.96
5320	0	10.08	8.64	18.72	12.72	23.75	11.03	13.08	11.21	24.29	13.85	29.97	16.12
	4	8.84	7.88	16.72	12.23	23.75	11.52	11.47	10.22	21.69	13.36	29.97	16.61
	8	9.81	8.94	18.75	12.73	23.75	11.02	12.72	11.60	24.32	13.86	29.97	16.11

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.
							[dBm]	[dBm]	[dBm]				[dBm]	[dBm]
5180	0	0.00	-17.65	1.91	20.17	1.13	4.43	5.56	-18.20	1.96	20.18	1.13	3.93	5.06
	4	0.00	-18.21	1.91	20.17	1.13	3.87	5.00	-18.58	1.96	20.18	1.13	3.55	4.68
	8	0.00	-17.84	1.91	20.17	1.13	4.24	5.37	-18.15	1.96	20.18	1.13	3.98	5.11
5220	0	0.00	-17.24	1.91	20.17	1.13	4.84	5.97	-18.32	1.96	20.18	1.13	3.81	4.94
	4	0.00	-17.80	1.91	20.17	1.13	4.28	5.41	-18.75	1.96	20.18	1.13	3.38	4.51
	8	0.00	-17.30	1.91	20.17	1.13	4.78	5.91	-18.27	1.96	20.18	1.13	3.86	4.99
5240	0	0.00	-17.21	1.91	20.17	1.13	4.87	6.00	-17.75	1.96	20.18	1.13	4.39	5.52
	4	0.00	-17.74	1.91	20.17	1.13	4.34	5.47	-18.44	1.96	20.18	1.13	3.70	4.83
	8	0.00	-17.50	1.91	20.17	1.13	4.58	5.71	-18.42	1.96	20.18	1.13	3.72	4.85
5260	0	0.00	-12.51	1.92	20.17	1.13	9.58	10.71	-12.46	1.97	20.18	1.13	9.69	10.82
	4	0.00	-12.99	1.92	20.17	1.13	9.10	10.23	-12.80	1.97	20.18	1.13	9.35	10.48
	8	0.00	-12.47	1.92	20.17	1.13	9.62	10.75	-12.38	1.97	20.18	1.13	9.77	10.90
5300	0	0.00	-11.91	1.92	20.17	1.13	10.18	11.31	-12.54	1.98	20.18	1.13	9.61	10.74
	4	0.00	-12.48	1.92	20.17	1.13	9.61	10.74	-12.99	1.98	20.18	1.13	9.16	10.29
	8	0.00	-11.94	1.92	20.17	1.13	10.15	11.28	-12.57	1.98	20.18	1.13	9.58	10.71
5320	0	0.00	-12.05	1.92	20.17	1.13	10.04	11.17	-12.79	1.98	20.17	1.13	9.37	10.50
	4	0.00	-12.62	1.92	20.17	1.13	9.47	10.60	-13.19	1.98	20.17	1.13	8.97	10.10
	8	0.00	-12.17	1.92	20.17	1.13	9.92	11.05	-12.64	1.98	20.17	1.13	9.52	10.65

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (CDD)

[High Power mode]

11ax-20 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	0	10.06	9.45	19.51	12.90	23.75	10.85		13.06	12.26	25.31	14.03	29.97	15.94	
	4	8.47	8.68	17.14	12.34	23.75	11.41		10.98	11.25	22.24	13.47	29.97	16.50	
	8	9.35	9.98	19.33	12.86	23.75	10.89		12.13	12.95	25.08	13.99	29.97	15.98	
5580	0	9.09	9.70	18.80	12.74	23.75	11.01		11.80	12.59	24.38	13.87	29.97	16.10	
	4	7.99	8.89	16.88	12.27	23.75	11.48		10.37	11.53	21.90	13.40	29.97	16.57	
	8	9.16	10.09	19.25	12.84	23.75	10.91		11.88	13.09	24.97	13.97	29.97	16.00	
5700	0	8.50	8.69	17.18	12.35	23.75	11.40		11.02	11.27	22.29	13.48	29.97	16.49	
	4	7.38	7.98	15.36	11.86	23.75	11.89		9.58	10.35	19.92	12.99	29.97	16.98	
	8	8.50	8.97	17.47	12.42	23.75	11.33		11.02	11.64	22.66	13.55	29.97	16.42	
5720	0	8.13	8.36	16.49	12.17	23.75	11.58		10.54	10.85	21.39	13.30	29.97	16.67	
	4	7.38	8.02	15.40	11.88	23.75	11.87		9.57	10.41	19.98	13.01	29.97	16.96	
	8	8.28	8.84	17.12	12.33	23.75	11.42		10.74	11.47	22.21	13.46	29.97	16.51	
5745	0	9.12	8.94	18.06	12.57	30.00	17.43		11.82	11.60	23.42	13.70	36.00	22.30	
	4	8.16	8.27	16.43	12.16	30.00	17.84		10.59	10.72	21.31	13.29	36.00	22.71	
	8	8.79	9.28	18.06	12.57	30.00	17.43		11.40	12.03	23.43	13.70	36.00	22.30	
5785	0	9.80	9.36	19.15	12.82	30.00	17.18		12.71	12.14	24.85	13.95	36.00	22.05	
	4	8.83	8.73	17.57	12.45	30.00	17.55		11.46	11.33	22.79	13.58	36.00	22.42	
	8	9.93	10.07	20.01	13.01	30.00	16.99		12.89	13.07	25.95	14.14	36.00	21.86	
5825	0	9.11	8.51	17.62	12.46	30.00	17.54		11.82	11.04	22.85	13.59	36.00	22.41	
	4	7.95	7.83	15.78	11.98	30.00	18.02		10.32	10.16	20.48	13.11	36.00	22.89	
	8	9.03	8.91	17.94	12.54	30.00	17.46		11.71	11.56	23.27	13.67	36.00	22.33	

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	0	0.00	-12.08	1.94	20.17	1.13	10.03	11.16	-12.45	2.03	20.17	1.13	9.75	10.88	
	4	0.00	-12.83	1.94	20.17	1.13	9.28	10.41	-12.82	2.03	20.17	1.13	9.38	10.51	
	8	0.00	-12.40	1.94	20.17	1.13	9.71	10.84	-12.21	2.03	20.17	1.13	9.99	11.12	
5580	0	0.00	-12.51	1.93	20.16	1.13	9.59	10.72	-12.32	2.02	20.17	1.13	9.87	11.00	
	4	0.00	-13.07	1.93	20.16	1.13	9.03	10.16	-12.70	2.02	20.17	1.13	9.49	10.62	
	8	0.00	-12.48	1.93	20.16	1.13	9.62	10.75	-12.15	2.02	20.17	1.13	10.04	11.17	
5700	0	0.00	-12.79	1.92	20.16	1.13	9.29	10.42	-12.78	1.99	20.17	1.13	9.39	10.52	
	4	0.00	-13.40	1.92	20.16	1.13	8.68	9.81	-13.15	1.99	20.17	1.13	9.02	10.15	
	8	0.00	-12.79	1.92	20.16	1.13	9.29	10.42	-12.64	1.99	20.17	1.13	9.53	10.66	
5720	0	0.00	-12.98	1.92	20.16	1.13	9.10	10.23	-12.94	1.99	20.17	1.13	9.22	10.35	
	4	0.00	-13.40	1.92	20.16	1.13	8.68	9.81	-13.12	1.99	20.17	1.13	9.04	10.17	
	8	0.00	-12.90	1.92	20.16	1.13	9.18	10.31	-12.70	1.99	20.17	1.13	9.46	10.59	
5745	0	0.00	-12.50	1.94	20.16	1.13	9.60	10.73	-12.67	2.01	20.17	1.13	9.51	10.64	
	4	0.00	-12.98	1.94	20.16	1.13	9.12	10.25	-13.01	2.01	20.17	1.13	9.17	10.30	
	8	0.00	-12.66	1.94	20.16	1.13	9.44	10.57	-12.51	2.01	20.17	1.13	9.67	10.80	
5785	0	0.00	-12.18	1.93	20.16	1.13	9.91	11.04	-12.46	2.00	20.17	1.13	9.71	10.84	
	4	0.00	-12.63	1.93	20.16	1.13	9.46	10.59	-12.76	2.00	20.17	1.13	9.41	10.54	
	8	0.00	-12.12	1.93	20.16	1.13	9.97	11.10	-12.14	2.00	20.17	1.13	10.03	11.16	
5825	0	0.00	-12.49	1.93	20.16	1.13	9.60	10.73	-12.86	1.98	20.17	1.13	9.30	10.43	
	4	0.00	-13.08	1.93	20.16	1.13	9.01	10.14	-13.22	1.98	20.17	1.13	8.94	10.07	
	8	0.00	-12.53	1.93	20.16	1.13	9.56	10.69	-12.66	1.98	20.17	1.13	9.50	10.63	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (SDM)

[High Power mode]

11ax-20 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	0	2.83	2.54	5.37	7.30	23.97	16.67	3.19	3.29	6.48	8.11	29.97	21.86
	4	2.52	2.22	4.74	6.76	23.97	17.21	2.83	2.89	5.72	7.57	29.97	22.40
	8	2.80	2.51	5.31	7.25	23.97	16.72	3.15	3.25	6.40	8.06	29.97	21.91
5220	0	3.14	2.49	5.63	7.51	23.97	16.46	3.53	3.23	6.76	8.30	29.97	21.67
	4	2.83	2.21	5.04	7.02	23.97	16.95	3.18	2.87	6.05	7.82	29.97	22.15
	8	3.06	2.49	5.55	7.44	23.97	16.53	3.44	3.22	6.67	8.24	29.97	21.73
5240	0	3.02	2.67	5.68	7.55	23.97	16.42	3.40	3.46	6.85	8.36	29.97	21.61
	4	2.88	2.53	5.40	7.33	23.97	16.64	3.24	3.28	6.51	8.14	29.97	21.83
	8	3.11	2.78	5.90	7.71	23.97	16.26	3.50	3.61	7.11	8.52	29.97	21.45
5260	0	9.84	9.59	19.43	12.88	23.75	10.87	11.06	12.44	23.51	13.71	29.97	16.26
	4	8.71	8.20	16.91	12.28	23.75	11.47	9.79	10.64	20.43	13.10	29.97	16.87
	8	9.66	9.14	18.80	12.74	23.75	11.01	10.86	11.86	22.72	13.56	29.97	16.41
5300	0	10.86	8.90	19.75	12.96	23.75	10.79	12.21	11.54	23.75	13.76	29.97	16.21
	4	9.76	7.89	17.66	12.47	23.75	11.28	10.98	10.24	21.22	13.27	29.97	16.70
	8	10.51	9.23	19.74	12.95	23.75	10.80	11.82	11.98	23.80	13.77	29.97	16.20
5320	0	10.56	8.94	19.50	12.90	23.75	10.85	11.87	11.60	23.48	13.71	29.97	16.26
	4	9.47	8.14	17.61	12.46	23.75	11.29	10.66	10.56	21.21	13.27	29.97	16.70
	8	10.04	8.68	18.72	12.72	23.75	11.03	11.29	11.26	22.55	13.53	29.97	16.44

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.
							[dBm]	[dBm]	[dBm]				[dBm]	[dBm]
5180	0	0.00	-17.56	1.91	20.17	0.51	4.52	5.03	-18.09	1.96	20.18	1.13	4.04	5.17
	4	0.00	-18.07	1.91	20.17	0.51	4.01	4.52	-18.66	1.96	20.18	1.13	3.47	4.60
	8	0.00	-17.61	1.91	20.17	0.51	4.47	4.98	-18.14	1.96	20.18	1.13	3.99	5.12
5220	0	0.00	-17.11	1.91	20.17	0.51	4.97	5.48	-18.17	1.96	20.18	1.13	3.96	5.09
	4	0.00	-17.57	1.91	20.17	0.51	4.51	5.02	-18.68	1.96	20.18	1.13	3.45	4.58
	8	0.00	-17.22	1.91	20.17	0.51	4.86	5.37	-18.18	1.96	20.18	1.13	3.95	5.08
5240	0	0.00	-17.28	1.91	20.17	0.51	4.80	5.31	-17.88	1.96	20.18	1.13	4.26	5.39
	4	0.00	-17.49	1.91	20.17	0.51	4.59	5.10	-18.11	1.96	20.18	1.13	4.03	5.16
	8	0.00	-17.15	1.91	20.17	0.51	4.93	5.44	-17.69	1.96	20.18	1.13	4.45	5.58
5260	0	0.00	-12.16	1.92	20.17	0.51	9.93	10.44	-12.33	1.97	20.18	1.13	9.82	10.95
	4	0.00	-12.69	1.92	20.17	0.51	9.40	9.91	-13.01	1.97	20.18	1.13	9.14	10.27
	8	0.00	-12.24	1.92	20.17	0.51	9.85	10.36	-12.54	1.97	20.18	1.13	9.61	10.74
5300	0	0.00	-11.73	1.92	20.17	0.51	10.36	10.87	-12.66	1.98	20.18	1.13	9.49	10.62
	4	0.00	-12.19	1.92	20.17	0.51	9.90	10.41	-13.18	1.98	20.18	1.13	8.97	10.10
	8	0.00	-11.87	1.92	20.17	0.51	10.22	10.73	-12.50	1.98	20.18	1.13	9.65	10.78
5320	0	0.00	-11.85	1.92	20.17	0.51	10.24	10.75	-12.64	1.98	20.17	1.13	9.52	10.65
	4	0.00	-12.32	1.92	20.17	0.51	9.77	10.28	-13.05	1.98	20.17	1.13	9.11	10.24
	8	0.00	-12.07	1.92	20.17	0.51	10.02	10.53	-12.77	1.98	20.17	1.13	9.39	10.52

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (SDM)

[High Power mode]

11ax-20 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5500	0	9.59	10.22	19.81	12.97	23.75	10.78	10.78	13.25	24.04	13.81	29.97	16.16
	4	8.29	8.80	17.09	12.33	23.75	11.42	9.33	11.41	20.74	13.17	29.97	16.80
	8	9.35	9.92	19.27	12.85	23.75	10.90	10.51	12.86	23.38	13.69	29.97	16.28
5580	0	9.01	9.97	18.99	12.78	23.75	10.97	10.13	12.94	23.07	13.63	29.97	16.34
	4	8.16	9.01	17.18	12.35	23.75	11.40	9.18	11.69	20.87	13.20	29.97	16.77
	8	9.05	9.88	18.94	12.77	23.75	10.98	10.18	12.82	23.00	13.62	29.97	16.35
5700	0	8.13	8.93	17.06	12.32	23.75	11.43	9.15	11.58	20.73	13.17	29.97	16.80
	4	7.30	8.09	15.39	11.87	23.75	11.88	8.21	10.49	18.70	12.72	29.97	17.25
	8	8.28	9.03	17.32	12.38	23.75	11.37	9.32	11.72	21.03	13.23	29.97	16.74
5720	0	8.02	8.84	16.86	12.27	23.75	11.48	9.02	11.47	20.48	13.11	29.97	16.86
	4	7.26	7.82	15.08	11.79	23.75	11.96	8.17	10.15	18.31	12.63	29.97	17.34
	8	7.82	8.76	16.57	12.19	23.75	11.56	8.79	11.36	20.15	13.04	29.97	16.93
5745	0	8.79	9.38	18.17	12.59	30.00	17.41	9.88	12.17	22.05	13.43	36.00	22.57
	4	7.94	8.72	16.66	12.22	30.00	17.78	8.93	11.31	20.24	13.06	36.00	22.94
	8	8.81	9.45	18.25	12.61	30.00	17.39	9.90	12.26	22.16	13.46	36.00	22.54
5785	0	9.55	10.00	19.56	12.91	30.00	17.09	10.74	12.98	23.72	13.75	36.00	22.25
	4	8.77	9.08	17.85	12.52	30.00	17.48	9.87	11.78	21.65	13.35	36.00	22.65
	8	9.89	10.35	20.24	13.06	30.00	16.94	11.12	13.43	24.55	13.90	36.00	22.10
5825	0	8.90	8.85	17.75	12.49	30.00	17.51	10.01	11.48	21.49	13.32	36.00	22.68
	4	8.14	8.41	16.55	12.19	30.00	17.81	9.15	10.91	20.06	13.02	36.00	22.98
	8	9.09	9.31	18.40	12.65	30.00	17.35	10.22	12.07	22.30	13.48	36.00	22.52

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.
							[dBm]	[dBm]	[dBm]				[dBm]	[dBm]
5500	0	0.00	-12.29	1.94	20.17	0.51	9.82	10.33	-12.11	2.03	20.17	1.13	10.09	11.22
	4	0.00	-12.92	1.94	20.17	0.51	9.19	9.70	-12.76	2.03	20.17	1.13	9.44	10.57
	8	0.00	-12.40	1.94	20.17	0.51	9.71	10.22	-12.24	2.03	20.17	1.13	9.96	11.09
5580	0	0.00	-12.55	1.93	20.16	0.51	9.55	10.06	-12.20	2.02	20.17	1.13	9.99	11.12
	4	0.00	-12.98	1.93	20.16	0.51	9.12	9.63	-12.64	2.02	20.17	1.13	9.55	10.68
	8	0.00	-12.53	1.93	20.16	0.51	9.57	10.08	-12.24	2.02	20.17	1.13	9.95	11.08
5700	0	0.00	-12.98	1.92	20.16	0.51	9.10	9.61	-12.66	1.99	20.17	1.13	9.51	10.64
	4	0.00	-13.45	1.92	20.16	0.51	8.63	9.14	-13.09	1.99	20.17	1.13	9.08	10.21
	8	0.00	-12.90	1.92	20.16	0.51	9.18	9.69	-12.61	1.99	20.17	1.13	9.56	10.69
5720	0	0.00	-13.04	1.92	20.16	0.51	9.04	9.55	-12.70	1.99	20.17	1.13	9.46	10.59
	4	0.00	-13.47	1.92	20.16	0.51	8.61	9.12	-13.23	1.99	20.17	1.13	8.93	10.06
	8	0.00	-13.15	1.92	20.16	0.51	8.93	9.44	-12.74	1.99	20.17	1.13	9.42	10.55
5745	0	0.00	-12.66	1.94	20.16	0.51	9.44	9.95	-12.46	2.01	20.17	1.13	9.72	10.85
	4	0.00	-13.10	1.94	20.16	0.51	9.00	9.51	-12.78	2.01	20.17	1.13	9.40	10.53
	8	0.00	-12.65	1.94	20.16	0.51	9.45	9.96	-12.43	2.01	20.17	1.13	9.75	10.88
5785	0	0.00	-12.29	1.93	20.16	0.51	9.80	10.31	-12.17	2.00	20.17	1.13	10.00	11.13
	4	0.00	-12.66	1.93	20.16	0.51	9.43	9.94	-12.59	2.00	20.17	1.13	9.58	10.71
	8	0.00	-12.14	1.93	20.16	0.51	9.95	10.46	-12.02	2.00	20.17	1.13	10.15	11.28
5825	0	0.00	-12.59	1.93	20.16	0.51	9.50	10.01	-12.69	1.98	20.17	1.13	9.47	10.60
	4	0.00	-12.98	1.93	20.16	0.51	9.11	9.62	-12.91	1.98	20.17	1.13	9.25	10.38
	8	0.00	-12.50	1.93	20.16	0.51	9.59	10.10	-12.47	1.98	20.17	1.13	9.69	10.82

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) = 1 W

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (CDD)

[High Power mode]

11ax-20 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	37	6.04	5.74	11.79	10.71	23.97	13.26	7.84	7.45	15.29	11.84	29.97	18.13
	38	5.52	5.17	10.69	10.29	23.97	13.68	7.16	6.70	13.87	11.42	29.97	18.55
	40	5.82	5.50	11.32	10.54	23.97	13.43	7.55	7.13	14.68	11.67	29.97	18.30
5220	37	5.61	5.25	10.86	10.36	23.97	13.61	7.28	6.81	14.09	11.49	29.97	18.48
	38	5.48	5.10	10.58	10.25	23.97	13.72	7.11	6.61	13.73	11.38	29.97	18.59
	40	5.53	5.37	10.91	10.38	23.97	13.59	7.18	6.97	14.15	11.51	29.97	18.46
5240	37	6.29	5.97	12.26	10.89	23.97	13.08	8.16	7.74	15.90	12.02	29.97	17.95
	38	5.94	5.84	11.79	10.71	23.97	13.26	7.71	7.58	15.29	11.84	29.97	18.13
	40	6.07	5.82	11.88	10.75	23.97	13.22	7.87	7.55	15.42	11.88	29.97	18.09
5260	37	12.94	11.30	24.23	13.84	23.90	10.06	16.78	14.65	31.43	14.97	29.97	15.00
	38	12.07	10.84	22.91	13.60	23.90	10.30	15.66	14.06	29.72	14.73	29.97	15.24
	40	12.33	11.51	23.83	13.77	23.90	10.13	15.99	14.93	30.92	14.90	29.97	15.07
5300	37	13.67	11.49	25.16	14.01	23.90	9.89	17.73	14.91	32.63	15.14	29.97	14.83
	38	13.05	11.02	24.08	13.82	23.90	10.08	16.93	14.30	31.23	14.95	29.97	15.02
	40	13.89	11.73	25.62	14.09	23.90	9.81	18.02	15.22	33.23	15.22	29.97	14.75
5320	37	13.73	11.47	25.20	14.01	23.90	9.89	17.81	14.88	32.68	15.14	29.97	14.83
	38	12.99	10.70	23.69	13.75	23.90	10.15	16.85	13.88	30.73	14.88	29.97	15.09
	40	13.54	11.36	24.90	13.96	23.90	9.94	17.56	14.74	32.30	15.09	29.97	14.88

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.
							[dBm]	[dBm]					[dBm]	[dBm]
5180	37	0.00	-14.27	1.91	20.17	1.13	7.81	8.94	-14.54	1.96	20.18	1.13	7.59	8.72
	38	0.00	-14.66	1.91	20.17	1.13	7.42	8.55	-15.00	1.96	20.18	1.13	7.13	8.26
	40	0.00	-14.43	1.91	20.17	1.13	7.65	8.78	-14.73	1.96	20.18	1.13	7.40	8.53
5220	37	0.00	-14.59	1.91	20.17	1.13	7.49	8.62	-14.93	1.96	20.18	1.13	7.20	8.33
	38	0.00	-14.69	1.91	20.17	1.13	7.39	8.52	-15.06	1.96	20.18	1.13	7.07	8.20
	40	0.00	-14.65	1.91	20.17	1.13	7.43	8.56	-14.83	1.96	20.18	1.13	7.30	8.43
5240	37	0.00	-14.09	1.91	20.17	1.13	7.99	9.12	-14.38	1.96	20.18	1.13	7.76	8.89
	38	0.00	-14.34	1.91	20.17	1.13	7.74	8.87	-14.47	1.96	20.18	1.13	7.67	8.80
	40	0.00	-14.25	1.91	20.17	1.13	7.83	8.96	-14.49	1.96	20.18	1.13	7.65	8.78
5260	37	0.00	-10.97	1.92	20.17	1.13	11.12	12.25	-11.62	1.97	20.18	1.13	10.53	11.66
	38	0.00	-11.27	1.92	20.17	1.13	10.82	11.95	-11.80	1.97	20.18	1.13	10.35	11.48
	40	0.00	-11.18	1.92	20.17	1.13	10.91	12.04	-11.54	1.97	20.18	1.13	10.61	11.74
5300	37	0.00	-10.73	1.92	20.17	1.13	11.36	12.49	-11.55	1.98	20.18	1.13	10.60	11.73
	38	0.00	-10.93	1.92	20.17	1.13	11.16	12.29	-11.73	1.98	20.18	1.13	10.42	11.55
	40	0.00	-10.66	1.92	20.17	1.13	11.43	12.56	-11.46	1.98	20.18	1.13	10.69	11.82
5320	37	0.00	-10.71	1.92	20.17	1.13	11.38	12.51	-11.56	1.98	20.17	1.13	10.60	11.73
	38	0.00	-10.95	1.92	20.17	1.13	11.14	12.27	-11.86	1.98	20.17	1.13	10.30	11.43
	40	0.00	-10.77	1.92	20.17	1.13	11.32	12.45	-11.60	1.98	20.17	1.13	10.56	11.69

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (CDD)

[High Power mode]

11ax-20 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	37	12.13	12.12	24.24	13.85	23.90	10.05		15.73	15.72	31.45	14.98	29.97	14.99	
	38	11.16	11.87	23.03	13.62	23.90	10.28		14.48	15.39	29.87	14.75	29.97	15.22	
	40	11.69	12.20	23.89	13.78	23.90	10.12		15.16	15.82	30.99	14.91	29.97	15.06	
5580	37	11.34	12.67	24.02	13.81	23.90	10.09		14.72	16.44	31.16	14.94	29.97	15.03	
	38	11.53	12.67	24.20	13.84	23.90	10.06		14.95	16.44	31.39	14.97	29.97	15.00	
	40	11.55	13.15	24.70	13.93	23.90	9.97		14.99	17.06	32.05	15.06	29.97	14.91	
5700	37	10.48	10.30	20.78	13.18	23.90	10.72		13.59	13.36	26.95	14.31	29.97	15.66	
	38	9.85	9.99	19.84	12.98	23.90	10.92		12.77	12.97	25.74	14.11	29.97	15.86	
	40	10.53	10.39	20.92	13.21	23.90	10.69		13.65	13.48	27.14	14.34	29.97	15.63	
5720	37	10.33	9.87	20.20	13.05	23.90	10.85		13.40	12.81	26.20	14.18	29.97	15.79	
	38	9.40	9.56	18.96	12.78	23.90	11.12		12.19	12.40	24.59	13.91	29.97	16.06	
	40	10.38	10.46	20.83	13.19	23.90	10.71		13.46	13.56	27.02	14.32	29.97	15.65	
5745	37	11.64	11.60	23.23	13.66	30.00	16.34		15.09	15.04	30.14	14.79	36.00	21.21	
	38	11.09	11.20	22.29	13.48	30.00	16.52		14.38	14.53	28.91	14.61	36.00	21.39	
	40	11.53	11.92	23.45	13.70	30.00	16.30		14.95	15.47	30.42	14.83	36.00	21.17	
5785	37	12.17	11.94	24.11	13.82	30.00	16.18		15.78	15.49	31.27	14.95	36.00	21.05	
	38	11.65	11.86	23.51	13.71	30.00	16.29		15.11	15.39	30.49	14.84	36.00	21.16	
	40	12.28	12.65	24.93	13.97	30.00	16.03		15.93	16.41	32.34	15.10	36.00	20.90	
5825	37	11.47	10.99	22.46	13.51	30.00	16.49		14.88	14.25	29.13	14.64	36.00	21.36	
	38	10.78	10.71	21.49	13.32	30.00	16.68		13.98	13.90	27.88	14.45	36.00	21.55	
	40	11.57	11.37	22.95	13.61	30.00	16.39		15.01	14.75	29.77	14.74	36.00	21.26	

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	37	0.00	-11.27	1.94	20.17	1.13	10.84	11.97	-11.37	2.03	20.17	1.13	10.83	11.96	
	38	0.00	-11.63	1.94	20.17	1.13	10.48	11.61	-11.46	2.03	20.17	1.13	10.74	11.87	
	40	0.00	-11.43	1.94	20.17	1.13	10.68	11.81	-11.34	2.03	20.17	1.13	10.86	11.99	
5580	37	0.00	-11.55	1.93	20.16	1.13	10.55	11.68	-11.16	2.02	20.17	1.13	11.03	12.16	
	38	0.00	-11.48	1.93	20.16	1.13	10.62	11.75	-11.16	2.02	20.17	1.13	11.03	12.16	
	40	0.00	-11.47	1.93	20.16	1.13	10.63	11.76	-11.00	2.02	20.17	1.13	11.19	12.32	
5700	37	0.00	-11.88	1.92	20.16	1.13	10.20	11.33	-12.04	1.99	20.17	1.13	10.13	11.26	
	38	0.00	-12.15	1.92	20.16	1.13	9.93	11.06	-12.17	1.99	20.17	1.13	10.00	11.13	
	40	0.00	-11.86	1.92	20.16	1.13	10.22	11.35	-12.00	1.99	20.17	1.13	10.17	11.30	
5720	37	0.00	-11.94	1.92	20.16	1.13	10.14	11.27	-12.22	1.99	20.17	1.13	9.94	11.07	
	38	0.00	-12.35	1.92	20.16	1.13	9.73	10.86	-12.36	1.99	20.17	1.13	9.80	10.93	
	40	0.00	-11.92	1.92	20.16	1.13	10.16	11.29	-11.97	1.99	20.17	1.13	10.19	11.32	
5745	37	0.00	-11.44	1.94	20.16	1.13	10.66	11.79	-11.54	2.01	20.17	1.13	10.64	11.77	
	38	0.00	-11.65	1.94	20.16	1.13	10.45	11.58	-11.69	2.01	20.17	1.13	10.49	11.62	
	40	0.00	-11.48	1.94	20.16	1.13	10.62	11.75	-11.42	2.01	20.17	1.13	10.76	11.89	
5785	37	0.00	-11.24	1.93	20.16	1.13	10.85	11.98	-11.40	2.00	20.17	1.13	10.77	11.90	
	38	0.00	-11.43	1.93	20.16	1.13	10.66	11.79	-11.43	2.00	20.17	1.13	10.74	11.87	
	40	0.00	-11.20	1.93	20.16	1.13	10.89	12.02	-11.15	2.00	20.17	1.13	11.02	12.15	
5825	37	0.00	-11.49	1.93	20.16	1.13	10.60	11.73	-11.75	1.98	20.17	1.13	10.41	11.54	
	38	0.00	-11.76	1.93	20.16	1.13	10.33	11.46	-11.86	1.98	20.17	1.13	10.30	11.43	
	40	0.00	-11.45	1.93	20.16	1.13	10.64	11.77	-11.60	1.98	20.17	1.13	10.56	11.69	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) <= 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (SDM)

[High Power mode]

11ax-20 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	37	5.76	4.94	10.70	10.29	23.97	13.68	6.47	6.41	12.89	11.10	29.97	18.87
	38	5.18	4.66	9.84	9.93	23.97	14.04	5.82	6.04	11.86	10.74	29.97	19.23
	40	5.48	4.87	10.35	10.15	23.97	13.82	6.17	6.31	12.48	10.96	29.97	19.01
5220	37	5.38	4.88	10.26	10.11	23.97	13.86	6.05	6.33	12.38	10.93	29.97	19.04
	38	4.93	4.63	9.56	9.80	23.97	14.17	5.55	6.00	11.55	10.63	29.97	19.34
	40	5.19	4.71	9.90	9.96	23.97	14.01	5.84	6.11	11.95	10.77	29.97	19.20
5240	37	5.77	5.48	11.25	10.51	23.97	13.46	6.49	7.11	13.59	11.33	29.97	18.64
	38	5.48	5.17	10.65	10.28	23.97	13.69	6.16	6.71	12.88	11.10	29.97	18.87
	40	5.91	5.21	11.12	10.46	23.97	13.51	6.65	6.76	13.41	11.27	29.97	18.70
5260	37	12.97	11.80	24.77	13.94	23.90	9.96	14.58	15.31	29.89	14.76	29.97	15.21
	38	12.13	11.27	23.40	13.69	23.90	10.21	13.64	14.62	28.26	14.51	29.97	15.46
	40	12.88	11.64	24.52	13.89	23.90	10.01	14.48	15.10	29.58	14.71	29.97	15.26
5300	37	13.98	11.84	25.82	14.12	23.90	9.78	15.73	15.36	31.09	14.93	29.97	15.04
	38	13.17	11.31	24.48	13.89	23.90	10.01	14.81	14.67	29.48	14.70	29.97	15.27
	40	13.89	11.68	25.57	14.08	23.90	9.82	15.62	15.15	30.77	14.88	29.97	15.09
5320	37	13.89	11.39	25.28	14.03	23.90	9.87	15.62	14.78	30.39	14.83	29.97	15.14
	38	13.11	11.21	24.32	13.86	23.90	10.04	14.74	14.54	29.28	14.67	29.97	15.30
	40	13.70	11.52	25.22	14.02	23.90	9.88	15.40	14.95	30.35	14.82	29.97	15.15

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	37	0.00	-14.48	1.91	20.17	0.51	7.60	8.11	-15.19	1.96	20.18	1.13	6.94	8.07
	38	0.00	-14.94	1.91	20.17	0.51	7.14	7.65	-15.45	1.96	20.18	1.13	6.68	7.81
	40	0.00	-14.69	1.91	20.17	0.51	7.39	7.90	-15.26	1.96	20.18	1.13	6.87	8.00
5220	37	0.00	-14.77	1.91	20.17	0.51	7.31	7.82	-15.25	1.96	20.18	1.13	6.88	8.01
	38	0.00	-15.15	1.91	20.17	0.51	6.93	7.44	-15.48	1.96	20.18	1.13	6.65	7.78
	40	0.00	-14.93	1.91	20.17	0.51	7.15	7.66	-15.40	1.96	20.18	1.13	6.73	7.86
5240	37	0.00	-14.47	1.91	20.17	0.51	7.61	8.12	-14.75	1.96	20.18	1.13	7.39	8.52
	38	0.00	-14.69	1.91	20.17	0.51	7.39	7.90	-15.00	1.96	20.18	1.13	7.14	8.27
	40	0.00	-14.36	1.91	20.17	0.51	7.72	8.23	-14.97	1.96	20.18	1.13	7.17	8.30
5260	37	0.00	-10.96	1.92	20.17	0.51	11.13	11.64	-11.43	1.97	20.18	1.13	10.72	11.85
	38	0.00	-11.25	1.92	20.17	0.51	10.84	11.35	-11.63	1.97	20.18	1.13	10.52	11.65
	40	0.00	-10.99	1.92	20.17	0.51	11.10	11.61	-11.49	1.97	20.18	1.13	10.66	11.79
5300	37	0.00	-10.63	1.92	20.17	0.51	11.46	11.97	-11.42	1.98	20.18	1.13	10.73	11.86
	38	0.00	-10.89	1.92	20.17	0.51	11.20	11.71	-11.62	1.98	20.18	1.13	10.53	11.66
	40	0.00	-10.66	1.92	20.17	0.51	11.43	11.94	-11.48	1.98	20.18	1.13	10.67	11.80
5320	37	0.00	-10.66	1.92	20.17	0.51	11.43	11.94	-11.59	1.98	20.17	1.13	10.57	11.70
	38	0.00	-10.91	1.92	20.17	0.51	11.18	11.69	-11.66	1.98	20.17	1.13	10.50	11.63
	40	0.00	-10.72	1.92	20.17	0.51	11.37	11.88	-11.54	1.98	20.17	1.13	10.62	11.75

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) = 1 W

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (SDM)

[High Power mode]

11ax-20 (OFDMA)(SDM) 52-tone RU
5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	37	13.73	13.88	27.61	14.41	23.90	9.49		15.44	18.00	33.45	15.24	29.97	14.73	
	38	12.85	12.89	25.74	14.11	23.90	9.79		14.45	16.72	31.17	14.94	29.97	15.03	
	40	13.27	13.78	27.05	14.32	23.90	9.58		14.92	17.88	32.80	15.16	29.97	14.81	
5580	37	13.24	14.03	27.26	14.36	23.90	9.54		14.89	18.19	33.08	15.20	29.97	14.77	
	38	12.64	13.46	26.10	14.17	23.90	9.73		14.22	17.45	31.67	15.01	29.97	14.96	
	40	13.08	13.93	27.01	14.32	23.90	9.58		14.72	18.07	32.78	15.16	29.97	14.81	
5700	37	12.25	11.82	24.08	13.82	23.90	10.08		13.78	15.34	29.12	14.64	29.97	15.33	
	38	11.57	11.19	22.76	13.57	23.90	10.33		13.01	14.51	27.52	14.40	29.97	15.57	
	40	12.31	11.96	24.27	13.85	23.90	10.05		13.84	15.52	29.36	14.68	29.97	15.29	
5720	37	11.78	11.65	23.43	13.70	23.90	10.20		13.24	15.12	28.36	14.53	29.97	15.44	
	38	11.19	10.95	22.14	13.45	23.90	10.45		12.59	14.20	26.79	14.28	29.97	15.69	
	40	12.02	11.84	23.86	13.78	23.90	10.12		13.52	15.36	28.88	14.61	29.97	15.36	
5745	37	11.58	11.57	23.15	13.65	30.00	16.35		13.02	15.01	28.03	14.48	36.00	21.52	
	38	10.98	11.00	21.98	13.42	30.00	16.58		12.35	14.27	26.62	14.25	36.00	21.75	
	40	11.56	11.65	23.21	13.66	30.00	16.34		12.99	15.11	28.11	14.49	36.00	21.51	
5785	37	12.65	12.33	24.99	13.98	30.00	16.02		14.23	16.00	30.23	14.80	36.00	21.20	
	38	11.81	11.86	23.67	13.74	30.00	16.26		13.28	15.39	28.66	14.57	36.00	21.43	
	40	12.71	12.56	25.27	14.03	30.00	15.97		14.29	16.30	30.59	14.86	36.00	21.14	
5825	37	11.79	11.35	23.14	13.64	30.00	16.36		13.26	14.72	27.98	14.47	36.00	21.53	
	38	11.34	10.52	21.85	13.40	30.00	16.60		12.75	13.64	26.39	14.21	36.00	21.79	
	40	12.06	11.40	23.46	13.70	30.00	16.30		13.57	14.79	28.35	14.53	36.00	21.47	

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1 [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	37	0.00	-10.73	1.94	20.17	0.51	11.38	11.89	-10.78	2.03	20.17	1.13	11.42	12.55	
	38	0.00	-11.02	1.94	20.17	0.51	11.09	11.60	-11.10	2.03	20.17	1.13	11.10	12.23	
	40	0.00	-10.88	1.94	20.17	0.51	11.23	11.74	-10.81	2.03	20.17	1.13	11.39	12.52	
5580	37	0.00	-10.88	1.93	20.16	0.51	11.22	11.73	-10.72	2.02	20.17	1.13	11.47	12.60	
	38	0.00	-11.08	1.93	20.16	0.51	11.02	11.53	-10.90	2.02	20.17	1.13	11.29	12.42	
	40	0.00	-10.93	1.93	20.16	0.51	11.17	11.68	-10.75	2.02	20.17	1.13	11.44	12.57	
5700	37	0.00	-11.20	1.92	20.16	0.51	10.88	11.39	-11.44	1.99	20.17	1.13	10.73	11.86	
	38	0.00	-11.45	1.92	20.16	0.51	10.63	11.14	-11.68	1.99	20.17	1.13	10.49	11.62	
	40	0.00	-11.18	1.92	20.16	0.51	10.90	11.41	-11.39	1.99	20.17	1.13	10.78	11.91	
5720	37	0.00	-11.37	1.92	20.16	0.51	10.71	11.22	-11.50	1.99	20.17	1.13	10.66	11.79	
	38	0.00	-11.59	1.92	20.16	0.51	10.49	11.00	-11.77	1.99	20.17	1.13	10.39	11.52	
	40	0.00	-11.28	1.92	20.16	0.51	10.80	11.31	-11.43	1.99	20.17	1.13	10.73	11.86	
5745	37	0.00	-11.46	1.94	20.16	0.51	10.64	11.15	-11.55	2.01	20.17	1.13	10.63	11.76	
	38	0.00	-11.69	1.94	20.16	0.51	10.41	10.92	-11.77	2.01	20.17	1.13	10.41	11.54	
	40	0.00	-11.47	1.94	20.16	0.51	10.63	11.14	-11.52	2.01	20.17	1.13	10.66	11.79	
5785	37	0.00	-11.07	1.93	20.16	0.51	11.02	11.53	-11.26	2.00	20.17	1.13	10.91	12.04	
	38	0.00	-11.37	1.93	20.16	0.51	10.72	11.23	-11.43	2.00	20.17	1.13	10.74	11.87	
	40	0.00	-11.05	1.93	20.16	0.51	11.04	11.55	-11.18	2.00	20.17	1.13	10.99	12.12	
5825	37	0.00	-11.37	1.93	20.16	0.51	10.72	11.23	-11.61	1.98	20.17	1.13	10.55	11.68	
	38	0.00	-11.54	1.93	20.16	0.51	10.55	11.06	-11.94	1.98	20.17	1.13	10.22	11.35	
	40	0.00	-11.27	1.93	20.16	0.51	10.82	11.33	-11.59	1.98	20.17	1.13	10.57	11.70	

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) = 1 W

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date August 1, 2023
Temperature / Humidity 24 deg. C / 55 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDMA) 106-tone RU (CDD)

[High Power mode]

11ax-20 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	53	12.95	11.33	24.28	13.85	23.97	10.12	16.79	14.69	31.49	14.98	29.97	14.99
	54	13.07	11.86	24.93	13.97	23.97	10.00	16.95	15.39	32.34	15.10	29.97	14.87
5220	53	12.48	11.41	23.89	13.78	23.97	10.19	16.18	14.80	30.99	14.91	29.97	15.06
	54	12.97	11.39	24.36	13.87	23.97	10.10	16.83	14.77	31.60	15.00	29.97	14.97
5240	53	12.76	11.69	24.45	13.88	23.97	10.09	16.55	15.16	31.72	15.01	29.97	14.96
	54	13.12	12.32	25.44	14.06	23.97	9.91	17.02	15.99	33.00	15.19	29.97	14.78
5260	53	11.88	10.64	22.52	13.53	23.97	10.44	15.41	13.80	29.21	14.66	29.97	15.31
	54	11.77	10.94	22.71	13.56	23.97	10.41	15.27	14.19	29.46	14.69	29.97	15.28
5300	53	12.67	10.48	23.15	13.64	23.97	10.33	16.43	13.59	30.02	14.77	29.97	15.20
	54	12.75	10.41	23.16	13.65	23.97	10.32	16.54	13.50	30.04	14.78	29.97	15.19
5320	53	12.49	10.22	22.71	13.56	23.97	10.41	16.20	13.26	29.46	14.69	29.97	15.28
	54	12.40	10.27	22.67	13.56	23.97	10.41	16.09	13.32	29.41	14.69	29.97	15.28

			5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result			
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.		
							[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dB]	[dBm]	[dBm]		
5180	53	0.00	-10.96	1.91	20.17	1.13	11.12	12.25	-11.59	1.96	20.18	1.13	10.54	11.67		
	54	0.00	-10.92	1.91	20.17	1.13	11.16	12.29	-11.39	1.96	20.18	1.13	10.74	11.87		
5220	53	0.00	-11.12	1.91	20.17	1.13	10.96	12.09	-11.56	1.96	20.18	1.13	10.57	11.70		
	54	0.00	-10.95	1.91	20.17	1.13	11.13	12.26	-11.57	1.96	20.18	1.13	10.56	11.69		
5240	53	0.00	-11.02	1.91	20.17	1.13	11.06	12.19	-11.46	1.96	20.18	1.13	10.68	11.81		
	54	0.00	-10.90	1.91	20.17	1.13	11.18	12.31	-11.23	1.96	20.18	1.13	10.91	12.04		
5260	53	0.00	-11.34	1.92	20.17	1.13	10.75	11.88	-11.88	1.97	20.18	1.13	10.27	11.40		
	54	0.00	-11.38	1.92	20.17	1.13	10.71	11.84	-11.76	1.97	20.18	1.13	10.39	11.52		
5300	53	0.00	-11.06	1.92	20.17	1.13	11.03	12.16	-11.95	1.98	20.18	1.13	10.20	11.33		
	54	0.00	-11.03	1.92	20.17	1.13	11.06	12.19	-11.98	1.98	20.18	1.13	10.17	11.30		
5320	53	0.00	-11.12	1.92	20.17	1.13	10.97	12.10	-12.06	1.98	20.17	1.13	10.10	11.23		
	54	0.00	-11.15	1.92	20.17	1.13	10.94	12.07	-12.04	1.98	20.17	1.13	10.12	11.25		

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date August 1, 2023
Temperature / Humidity 24 deg. C / 55 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDMA) 106-tone RU (CDD)

[High Power mode]

11ax-20 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	53	12.02	12.06	24.08	13.82	23.97	10.15	15.59	15.64	31.23	14.95	29.97	15.02		
	54	11.93	12.28	24.22	13.84	23.97	10.13	15.48	15.93	31.41	14.97	29.97	15.00		
5580	53	11.58	12.73	24.31	13.86	23.97	10.11	15.02	16.52	31.54	14.99	29.97	14.98		
	54	11.91	12.94	24.85	13.95	23.97	10.02	15.44	16.78	32.23	15.08	29.97	14.89		
5700	53	10.70	10.54	21.24	13.27	23.97	10.70	13.88	13.67	27.55	14.40	29.97	15.57		
	54	10.53	10.47	20.99	13.22	23.97	10.75	13.65	13.58	27.23	14.35	29.97	15.62		
5720	53	10.45	10.20	20.64	13.15	23.97	10.82	13.55	13.23	26.78	14.28	29.97	15.69		
	54	10.38	10.20	20.57	13.13	23.97	10.84	13.46	13.23	26.68	14.26	29.97	15.71		
5745	53	11.82	11.84	23.66	13.74	30.00	16.26	15.34	15.36	30.70	14.87	36.00	21.13		
	54	11.80	11.81	23.61	13.73	30.00	16.27	15.30	15.32	30.63	14.86	36.00	21.14		
5785	53	12.56	12.22	24.79	13.94	30.00	16.06	16.30	15.85	32.15	15.07	36.00	20.93		
	54	12.74	12.65	25.39	14.05	30.00	15.95	16.53	16.41	32.94	15.18	36.00	20.82		
5825	53	12.12	11.29	23.42	13.69	30.00	16.31	15.72	14.65	30.37	14.82	36.00	21.18		
	54	12.09	11.53	23.62	13.73	30.00	16.27	15.69	14.96	30.64	14.86	36.00	21.14		

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5500	53	0.00	-11.31	1.94	20.17	1.13	10.80	11.93	-11.39	2.03	20.17	1.13	10.81	11.94
	54	0.00	-11.34	1.94	20.17	1.13	10.77	11.90	-11.31	2.03	20.17	1.13	10.89	12.02
5580	53	0.00	-11.46	1.93	20.16	1.13	10.64	11.77	-11.14	2.02	20.17	1.13	11.05	12.18
	54	0.00	-11.34	1.93	20.16	1.13	10.76	11.89	-11.07	2.02	20.17	1.13	11.12	12.25
5700	53	0.00	-11.79	1.92	20.16	1.13	10.29	11.42	-11.94	1.99	20.17	1.13	10.23	11.36
	54	0.00	-11.86	1.92	20.16	1.13	10.22	11.35	-11.97	1.99	20.17	1.13	10.20	11.33
5720	53	0.00	-11.89	1.92	20.16	1.13	10.19	11.32	-12.08	1.99	20.17	1.13	10.08	11.21
	54	0.00	-11.92	1.92	20.16	1.13	10.16	11.29	-12.08	1.99	20.17	1.13	10.08	11.21
5745	53	0.00	-11.37	1.94	20.16	1.13	10.73	11.86	-11.45	2.01	20.17	1.13	10.73	11.86
	54	0.00	-11.38	1.94	20.16	1.13	10.72	11.85	-11.46	2.01	20.17	1.13	10.72	11.85
5785	53	0.00	-11.10	1.93	20.16	1.13	10.99	12.12	-11.30	2.00	20.17	1.13	10.87	12.00
	54	0.00	-11.04	1.93	20.16	1.13	11.05	12.18	-11.15	2.00	20.17	1.13	11.02	12.15
5825	53	0.00	-11.25	1.93	20.16	1.13	10.84	11.97	-11.63	1.98	20.17	1.13	10.53	11.66
	54	0.00	-11.26	1.93	20.16	1.13	10.83	11.96	-11.54	1.98	20.17	1.13	10.62	11.75

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 106-tone RU (SDM)

[High Power mode]

11ax-20 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	53	13.16	11.70	24.86	13.95	23.97	10.02		14.80	15.18	29.97	14.77	29.97	15.20
	54	13.01	11.83	24.84	13.95	23.97	10.02		14.63	15.35	29.98	14.77	29.97	15.20
5220	53	12.65	11.52	24.17	13.83	23.97	10.14		14.23	14.94	29.17	14.65	29.97	15.32
	54	12.56	11.39	23.95	13.79	23.97	10.18		14.13	14.77	28.90	14.61	29.97	15.36
5240	53	13.52	12.44	25.96	14.14	23.97	9.83		15.20	16.13	31.34	14.96	29.97	15.01
	54	13.61	12.38	25.99	14.15	23.97	9.82		15.31	16.06	31.37	14.96	29.97	15.01
5260	53	11.50	10.79	22.29	13.48	23.97	10.49		12.94	13.99	26.93	14.30	29.97	15.67
	54	11.83	11.24	23.07	13.63	23.97	10.34		13.30	14.59	27.89	14.45	29.97	15.52
5300	53	12.93	10.92	23.85	13.78	23.97	10.19		14.54	14.17	28.71	14.58	29.97	15.39
	54	12.78	11.10	23.88	13.78	23.97	10.19		14.38	14.40	28.78	14.59	29.97	15.38
5320	53	12.69	10.65	23.35	13.68	23.97	10.29		14.27	13.82	28.10	14.49	29.97	15.48
	54	12.49	10.88	23.37	13.69	23.97	10.28		14.05	14.11	28.16	14.50	29.97	15.47

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	53	0.00	-10.89	1.91	20.17	0.51	11.19	11.70	-11.45	1.96	20.18	1.13	10.68	11.81
	54	0.00	-10.94	1.91	20.17	0.51	11.14	11.65	-11.40	1.96	20.18	1.13	10.73	11.86
5220	53	0.00	-11.06	1.91	20.17	0.51	11.02	11.53	-11.52	1.96	20.18	1.13	10.61	11.74
	54	0.00	-11.09	1.91	20.17	0.51	10.99	11.50	-11.57	1.96	20.18	1.13	10.56	11.69
5240	53	0.00	-10.77	1.91	20.17	0.51	11.31	11.82	-11.19	1.96	20.18	1.13	10.95	12.08
	54	0.00	-10.74	1.91	20.17	0.51	11.34	11.85	-11.21	1.96	20.18	1.13	10.93	12.06
5260	53	0.00	-11.48	1.92	20.17	0.51	10.61	11.12	-11.82	1.97	20.18	1.13	10.33	11.46
	54	0.00	-11.36	1.92	20.17	0.51	10.73	11.24	-11.64	1.97	20.18	1.13	10.51	11.64
5300	53	0.00	-10.97	1.92	20.17	0.51	11.12	11.63	-11.77	1.98	20.18	1.13	10.38	11.51
	54	0.00	-11.02	1.92	20.17	0.51	11.07	11.58	-11.70	1.98	20.18	1.13	10.45	11.58
5320	53	0.00	-11.05	1.92	20.17	0.51	11.04	11.55	-11.88	1.98	20.17	1.13	10.28	11.41
	54	0.00	-11.12	1.92	20.17	0.51	10.97	11.48	-11.79	1.98	20.17	1.13	10.37	11.50

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 106-tone RU (SDM)

[High Power mode]

11ax-20 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5500	53	12.97	13.19	26.16	14.18	23.97	9.79		14.58	17.11	31.69	15.01	29.97	14.96
	54	12.94	13.56	26.50	14.23	23.97	9.74		14.55	17.59	32.14	15.07	29.97	14.90
5580	53	12.61	13.64	26.25	14.19	23.97	9.78		14.18	17.70	31.88	15.04	29.97	14.93
	54	12.73	13.83	26.56	14.24	23.97	9.73		14.31	17.94	32.26	15.09	29.97	14.88
5700	53	11.51	11.48	22.99	13.62	23.97	10.35		12.95	14.89	27.84	14.45	29.97	15.52
	54	11.28	11.66	22.94	13.61	23.97	10.36		12.68	15.13	27.81	14.44	29.97	15.53
5720	53	10.86	11.21	22.07	13.44	23.97	10.53		12.22	14.54	26.75	14.27	29.97	15.70
	54	11.14	11.33	22.48	13.52	23.97	10.45		12.53	14.70	27.23	14.35	29.97	15.62
5745	53	10.88	11.08	21.96	13.42	30.00	16.58		12.24	14.37	26.61	14.25	36.00	21.75
	54	10.73	11.13	21.86	13.40	30.00	16.60		12.07	14.43	26.51	14.23	36.00	21.77
5785	53	11.94	12.42	24.36	13.87	30.00	16.13		13.43	16.11	29.54	14.70	36.00	21.30
	54	11.97	12.56	24.54	13.90	30.00	16.10		13.46	16.30	29.76	14.74	36.00	21.26
5825	53	10.88	10.99	21.86	13.40	30.00	16.60		12.23	14.25	26.48	14.23	36.00	21.77
	54	11.05	11.19	22.25	13.47	30.00	16.53		12.43	14.52	26.95	14.31	36.00	21.69

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		e.i.r.p.
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	53	0.00	-10.98	1.94	20.17	0.51	11.13	11.64	-11.00	2.03	20.17	1.13	11.20	12.33	
	54	0.00	-10.99	1.94	20.17	0.51	11.12	11.63	-10.88	2.03	20.17	1.13	11.32	12.45	
5580	53	0.00	-11.09	1.93	20.16	0.51	11.01	11.52	-10.84	2.02	20.17	1.13	11.35	12.48	
	54	0.00	-11.05	1.93	20.16	0.51	11.05	11.56	-10.78	2.02	20.17	1.13	11.41	12.54	
5700	53	0.00	-11.47	1.92	20.16	0.51	10.61	11.12	-11.57	1.99	20.17	1.13	10.60	11.73	
	54	0.00	-11.56	1.92	20.16	0.51	10.52	11.03	-11.50	1.99	20.17	1.13	10.67	11.80	
5720	53	0.00	-11.72	1.92	20.16	0.51	10.36	10.87	-11.67	1.99	20.17	1.13	10.49	11.62	
	54	0.00	-11.61	1.92	20.16	0.51	10.47	10.98	-11.62	1.99	20.17	1.13	10.54	11.67	
5745	53	0.00	-11.73	1.94	20.16	0.51	10.37	10.88	-11.74	2.01	20.17	1.13	10.44	11.57	
	54	0.00	-11.79	1.94	20.16	0.51	10.31	10.82	-11.72	2.01	20.17	1.13	10.46	11.59	
5785	53	0.00	-11.32	1.93	20.16	0.51	10.77	11.28	-11.23	2.00	20.17	1.13	10.94	12.07	
	54	0.00	-11.31	1.93	20.16	0.51	10.78	11.29	-11.18	2.00	20.17	1.13	10.99	12.12	
5825	53	0.00	-11.72	1.93	20.16	0.51	10.37	10.88	-11.75	1.98	20.17	1.13	10.41	11.54	
	54	0.00	-11.65	1.93	20.16	0.51	10.44	10.95	-11.67	1.98	20.17	1.13	10.49	11.62	

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) = 1 W

For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 30, 2024
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 242-tone RU (CDD)

[High Power mode]

11ax-20 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU	Conducted power						e.i.r.p.					
Frequency	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
[MHz]		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]
5180	61	12.89	11.73	24.61	13.91	23.97	10.06	16.72	15.21	31.93	15.04	29.97	14.93
5220	61	12.45	11.36	23.81	13.77	23.97	10.20	16.15	14.73	30.88	14.90	29.97	15.07
5240	61	13.09	11.74	24.83	13.95	23.97	10.02	16.98	15.23	32.21	15.08	29.97	14.89
5260	61	13.09	11.72	24.81	13.95	23.97	10.02	16.98	15.20	32.18	15.08	29.97	14.89
5300	61	13.86	12.17	26.03	14.15	23.97	9.82	17.97	15.79	33.76	15.28	29.97	14.69
5320	61	13.48	12.15	25.63	14.09	23.97	9.88	17.48	15.76	33.24	15.22	29.97	14.75
5500	61	12.85	13.25	26.10	14.17	23.97	9.80	16.66	17.19	33.86	15.30	29.97	14.67
5580	61	12.41	13.27	25.68	14.10	23.97	9.87	16.10	17.21	33.31	15.23	29.97	14.74
5700	61	11.15	11.45	22.60	13.54	23.97	10.43	14.46	14.85	29.31	14.67	29.97	15.30
5720	61	10.96	11.10	22.07	13.44	23.97	10.53	14.22	14.40	28.63	14.57	29.97	15.40
5745	61	10.59	10.97	21.56	13.34	30.00	16.66	13.73	14.24	27.97	14.47	36.00	21.53
5785	61	11.92	12.36	24.28	13.85	30.00	16.15	15.46	16.04	31.49	14.98	36.00	21.02
5825	61	10.78	10.86	21.64	13.35	30.00	16.65	13.98	14.09	28.07	14.48	36.00	21.52

			5G_CH0							5G_CH1						
Tested	RU	Duty	Power	Cable	Atten.	Directional	Result		Power	Cable	Atten.	Directional	Result			
Frequency	Index	Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.		
		*1)	Reading				Power		Reading				Power			
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]		
5180	61	0.00	-10.98	1.91	20.17	1.13	11.10	12.23	-11.44	1.96	20.18	1.13	10.69	11.82		
5220	61	0.00	-11.13	1.91	20.17	1.13	10.95	12.08	-11.58	1.96	20.18	1.13	10.55	11.68		
5240	61	0.00	-10.91	1.91	20.17	1.13	11.17	12.30	-11.44	1.96	20.18	1.13	10.70	11.83		
5260	61	0.00	-10.92	1.92	20.17	1.13	11.17	12.30	-11.46	1.97	20.18	1.13	10.69	11.82		
5300	61	0.00	-10.67	1.92	20.17	1.13	11.42	12.55	-11.30	1.98	20.18	1.13	10.85	11.98		
5320	61	0.00	-10.79	1.92	20.17	1.13	11.30	12.43	-11.31	1.98	20.17	1.13	10.85	11.98		
5500	61	0.00	-11.02	1.94	20.17	1.13	11.09	12.22	-10.98	2.03	20.17	1.13	11.22	12.35		
5580	61	0.00	-11.16	1.93	20.16	1.13	10.94	12.07	-10.96	2.02	20.17	1.13	11.23	12.36		
5700	61	0.00	-11.61	1.92	20.16	1.13	10.47	11.60	-11.58	1.99	20.17	1.13	10.59	11.72		
5720	61	0.00	-11.68	1.92	20.16	1.13	10.40	11.53	-11.71	1.99	20.17	1.13	10.45	11.58		
5745	61	0.00	-11.85	1.94	20.16	1.13	10.25	11.38	-11.78	2.01	20.17	1.13	10.40	11.53		
5785	61	0.00	-11.33	1.93	20.16	1.13	10.76	11.89	-11.25	2.00	20.17	1.13	10.92	12.05		
5825	61	0.00	-11.76	1.93	20.16	1.13	10.33	11.46	-11.80	1.98	20.17	1.13	10.36	11.49		

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) = < 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (21.580 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 242-tone RU (SDM)

[High Power mode]

11ax-20 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	61	12.92	11.94	24.86	13.96	23.97	10.01	14.53	15.49	30.02	14.77	29.97	15.20	
5220	61	12.53	11.62	24.16	13.83	23.97	10.14	14.10	15.08	29.17	14.65	29.97	15.32	
5240	61	13.33	12.32	25.66	14.09	23.97	9.88	14.99	15.99	30.98	14.91	29.97	15.06	
5260	61	13.03	12.08	25.10	14.00	23.97	9.97	14.65	15.67	30.32	14.82	29.97	15.15	
5300	61	13.70	12.34	26.04	14.16	23.97	9.81	15.40	16.01	31.41	14.97	29.97	15.00	
5320	61	13.32	11.68	25.00	13.98	23.97	9.99	14.98	15.15	30.14	14.79	29.97	15.18	
5500	61	12.70	13.41	26.11	14.17	23.97	9.80	14.28	17.39	31.67	15.01	29.97	14.96	
5580	61	12.32	13.42	25.75	14.11	23.97	9.86	13.86	17.41	31.27	14.95	29.97	15.02	
5700	61	10.90	11.58	22.48	13.52	23.97	10.45	12.25	15.02	27.28	14.36	29.97	15.61	
5720	61	10.86	11.36	22.23	13.47	23.97	10.50	12.22	14.74	26.96	14.31	29.97	15.66	
5745	61	10.73	11.15	21.89	13.40	30.00	16.60	12.07	14.47	26.54	14.24	36.00	21.76	
5785	61	11.62	12.83	24.45	13.88	30.00	16.12	13.07	16.64	29.71	14.73	36.00	21.27	
5825	61	11.16	11.06	22.22	13.47	30.00	16.53	12.55	14.35	26.90	14.30	36.00	21.70	

Tested Frequency [MHz]	RU Index	Duty Factor *1) [dB]	5G_CH0					5G_CH1							
			Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		e.i.r.p. [dBm]
							Cond. [dBm]	e.i.r.p. [dBm]					Cond. [dBm]	e.i.r.p. [dBm]	
5180	61	0.00	-10.97	1.91	20.17	0.51	11.11	11.62	-11.36	1.96	20.18	1.13	10.77	11.90	
5220	61	0.00	-11.10	1.91	20.17	0.51	10.98	11.49	-11.48	1.96	20.18	1.13	10.65	11.78	
5240	61	0.00	-10.83	1.91	20.17	0.51	11.25	11.76	-11.23	1.96	20.18	1.13	10.91	12.04	
5260	61	0.00	-10.94	1.92	20.17	0.51	11.15	11.66	-11.33	1.97	20.18	1.13	10.82	11.95	
5300	61	0.00	-10.72	1.92	20.17	0.51	11.37	11.88	-11.24	1.98	20.18	1.13	10.91	12.04	
5320	61	0.00	-10.84	1.92	20.17	0.51	11.25	11.76	-11.48	1.98	20.17	1.13	10.68	11.81	
5500	61	0.00	-11.07	1.94	20.17	0.51	11.04	11.55	-10.93	2.03	20.17	1.13	11.27	12.40	
5580	61	0.00	-11.19	1.93	20.16	0.51	10.91	11.42	-10.91	2.02	20.17	1.13	11.28	12.41	
5700	61	0.00	-11.71	1.92	20.16	0.51	10.37	10.88	-11.53	1.99	20.17	1.13	10.64	11.77	
5720	61	0.00	-11.72	1.92	20.16	0.51	10.36	10.87	-11.61	1.99	20.17	1.13	10.55	11.68	
5745	61	0.00	-11.79	1.94	20.16	0.51	10.31	10.82	-11.71	2.01	20.17	1.13	10.47	11.60	
5785	61	0.00	-11.44	1.93	20.16	0.51	10.65	11.16	-11.09	2.00	20.17	1.13	11.08	12.21	
5825	61	0.00	-11.61	1.93	20.16	0.51	10.48	10.99	-11.72	1.98	20.17	1.13	10.44	11.57	

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (21.580 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11n-40 (CDD)

[High Power mode]

11n-40 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power							e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]		5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	12.67	11.18	23.85	13.78	23.97	10.19		16.44	14.51	30.94	14.91	29.97	15.06
5230	11.74	10.91	22.65	13.55	23.97	10.42		15.22	14.15	29.38	14.68	29.97	15.29
5270	12.09	11.40	23.49	13.71	23.97	10.26		15.68	14.79	30.47	14.84	29.97	15.13
5310	12.85	13.50	26.35	14.21	23.97	9.76		16.67	17.51	34.18	15.34	29.97	14.63
5510	13.23	13.43	26.66	14.26	23.97	9.71		17.16	17.42	34.59	15.39	29.97	14.58
5550	12.14	12.68	24.82	13.95	23.97	10.02		15.74	16.45	32.19	15.08	29.97	14.89
5670	11.73	12.58	24.31	13.86	23.97	10.11		15.22	16.32	31.53	14.99	29.97	14.98
5710	11.58	11.58	23.16	13.65	23.97	10.32		15.02	15.02	30.04	14.78	29.97	15.19
5755	12.95	13.27	26.22	14.19	30.00	15.81		16.79	17.22	34.01	15.32	36.00	20.68
5795	13.10	13.89	26.99	14.31	30.00	15.69		17.00	18.01	35.01	15.44	36.00	20.56

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-11.05	1.91	20.17	1.13	11.03	12.16	-11.64	1.95	20.18	1.13	10.49	11.62
5230	0.00	-11.38	1.91	20.17	1.13	10.70	11.83	-11.75	1.95	20.18	1.13	10.38	11.51
5270	0.00	-11.26	1.91	20.17	1.13	10.82	11.95	-11.57	1.96	20.18	1.13	10.57	11.70
5310	0.00	-10.99	1.91	20.17	1.13	11.09	12.22	-10.84	1.97	20.18	1.13	11.30	12.43
5510	0.00	-10.91	1.96	20.17	1.13	11.22	12.35	-10.94	2.05	20.17	1.13	11.28	12.41
5550	0.00	-11.28	1.95	20.17	1.13	10.84	11.97	-11.18	2.04	20.17	1.13	11.03	12.16
5670	0.00	-11.41	1.94	20.17	1.13	10.69	11.82	-11.19	2.01	20.17	1.13	11.00	12.13
5710	0.00	-11.46	1.93	20.17	1.13	10.64	11.77	-11.54	2.00	20.17	1.13	10.64	11.77
5755	0.00	-11.01	1.97	20.17	1.13	11.12	12.25	-10.98	2.04	20.17	1.13	11.23	12.36
5795	0.00	-10.95	1.96	20.17	1.13	11.17	12.30	-10.77	2.02	20.17	1.13	11.43	12.56

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11n-40 (SDM)

[High Power mode]

11n-40 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	14.05	10.85	24.91	13.96	23.97	10.01	15.80	14.08	29.88	14.75	29.97	15.22
5230	12.20	11.53	23.73	13.75	23.97	10.22	13.73	14.96	28.68	14.58	29.97	15.39
5270	11.89	10.77	22.66	13.55	23.97	10.42	13.37	13.97	27.34	14.37	29.97	15.60
5310	12.22	11.02	23.24	13.66	23.97	10.31	13.74	14.30	28.04	14.48	29.97	15.49
5510	13.11	13.06	26.18	14.18	23.97	9.79	14.74	16.95	31.69	15.01	29.97	14.96
5550	11.94	12.31	24.25	13.85	23.97	10.12	13.43	15.97	29.40	14.68	29.97	15.29
5670	12.17	11.87	24.05	13.81	23.97	10.16	13.69	15.40	29.09	14.64	29.97	15.33
5710	11.50	11.37	22.87	13.59	23.97	10.38	12.93	14.75	27.68	14.42	29.97	15.55
5755	11.30	11.38	22.68	13.56	30.00	16.44	12.71	14.76	27.47	14.39	36.00	21.61
5795	12.23	12.35	24.58	13.91	30.00	16.09	13.75	16.02	29.77	14.74	36.00	21.26

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-10.60	1.91	20.17	0.51	11.48	11.99	-11.77	1.95	20.18	1.13	10.36	11.49
5230	0.00	-11.21	1.91	20.17	0.51	10.87	11.38	-11.51	1.95	20.18	1.13	10.62	11.75
5270	0.00	-11.33	1.91	20.17	0.51	10.75	11.26	-11.82	1.96	20.18	1.13	10.32	11.45
5310	0.00	-11.21	1.91	20.17	0.51	10.87	11.38	-11.72	1.97	20.18	1.13	10.42	11.55
5510	0.00	-10.95	1.96	20.17	0.51	11.18	11.69	-11.06	2.05	20.17	1.13	11.16	12.29
5550	0.00	-11.35	1.95	20.17	0.51	10.77	11.28	-11.31	2.04	20.17	1.13	10.90	12.03
5670	0.00	-11.25	1.94	20.17	0.51	10.85	11.36	-11.44	2.01	20.17	1.13	10.75	11.88
5710	0.00	-11.49	1.93	20.17	0.51	10.61	11.12	-11.62	2.00	20.17	1.13	10.56	11.69
5755	0.00	-11.60	1.97	20.17	0.51	10.53	11.04	-11.65	2.04	20.17	1.13	10.56	11.69
5795	0.00	-11.25	1.96	20.17	0.51	10.87	11.38	-11.28	2.02	20.17	1.13	10.92	12.05

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

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-40 (CDD)

[High Power mode]

11ac-40 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	12.64	12.40	25.04	13.99	23.97	9.98	16.40	16.09	32.49	15.12	29.97	14.85
5230	11.87	10.69	22.56	13.53	23.97	10.44	15.40	13.86	29.26	14.66	29.97	15.31
5270	12.11	11.48	23.60	13.73	23.97	10.24	15.71	14.90	30.61	14.86	29.97	15.11
5310	13.15	11.49	24.64	13.92	23.97	10.05	17.06	14.90	31.97	15.05	29.97	14.92
5510	13.02	13.03	26.06	14.16	23.97	9.81	16.89	16.91	33.80	15.29	29.97	14.68
5550	12.08	12.57	24.65	13.92	23.97	10.05	15.67	16.30	31.97	15.05	29.97	14.92
5670	11.13	12.07	23.19	13.65	23.97	10.32	14.43	15.65	30.09	14.78	29.97	15.19
5710	11.47	11.40	22.87	13.59	23.97	10.38	14.88	14.78	29.67	14.72	29.97	15.25
5755	11.67	11.80	23.48	13.71	30.00	16.29	15.14	15.31	30.45	14.84	36.00	21.16
5795	11.92	12.10	24.02	13.81	30.00	16.19	15.47	15.69	31.16	14.94	36.00	21.06

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-11.06	1.91	20.17	1.13	11.02	12.15	-11.19	1.95	20.18	1.13	10.94	12.07
5230	0.00	-11.33	1.91	20.17	1.13	10.75	11.88	-11.84	1.95	20.18	1.13	10.29	11.42
5270	0.00	-11.25	1.91	20.17	1.13	10.83	11.96	-11.54	1.96	20.18	1.13	10.60	11.73
5310	0.00	-10.89	1.91	20.17	1.13	11.19	12.32	-11.54	1.97	20.18	1.13	10.60	11.73
5510	0.00	-10.98	1.96	20.17	1.13	11.15	12.28	-11.07	2.05	20.17	1.13	11.15	12.28
5550	0.00	-11.30	1.95	20.17	1.13	10.82	11.95	-11.22	2.04	20.17	1.13	10.99	12.12
5670	0.00	-11.64	1.94	20.17	1.13	10.46	11.59	-11.37	2.01	20.17	1.13	10.82	11.95
5710	0.00	-11.50	1.93	20.17	1.13	10.60	11.73	-11.61	2.00	20.17	1.13	10.57	11.70
5755	0.00	-11.46	1.97	20.17	1.13	10.67	11.80	-11.49	2.04	20.17	1.13	10.72	11.85
5795	0.00	-11.36	1.96	20.17	1.13	10.76	11.89	-11.37	2.02	20.17	1.13	10.83	11.96

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-40 (SDM)

[High Power mode]

11ac-40 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	12.52	10.70	23.23	13.66	23.97	10.31	14.09	13.89	27.97	14.47	29.97	15.50
5230	11.82	10.69	22.50	13.52	23.97	10.45	13.29	13.86	27.15	14.34	29.97	15.63
5270	12.14	10.97	23.11	13.64	23.97	10.33	13.65	14.22	27.88	14.45	29.97	15.52
5310	13.62	11.05	24.66	13.92	23.97	10.05	15.31	14.33	29.64	14.72	29.97	15.25
5510	13.02	12.68	25.70	14.10	23.97	9.87	14.64	16.45	31.09	14.93	29.97	15.04
5550	12.08	11.97	24.05	13.81	23.97	10.16	13.58	15.53	29.12	14.64	29.97	15.33
5670	11.38	11.96	23.34	13.68	23.97	10.29	12.80	15.51	28.31	14.52	29.97	15.45
5710	11.55	11.29	22.85	13.59	23.97	10.38	12.99	14.65	27.64	14.42	29.97	15.55
5755	11.56	12.08	23.64	13.74	30.00	16.26	13.01	15.67	28.67	14.57	36.00	21.43
5795	11.95	12.43	24.39	13.87	30.00	16.13	13.44	16.13	29.57	14.71	36.00	21.29

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-11.10	1.91	20.17	0.51	10.98	11.49	-11.83	1.95	20.18	1.13	10.30	11.43
5230	0.00	-11.35	1.91	20.17	0.51	10.73	11.24	-11.84	1.95	20.18	1.13	10.29	11.42
5270	0.00	-11.24	1.91	20.17	0.51	10.84	11.35	-11.74	1.96	20.18	1.13	10.40	11.53
5310	0.00	-10.74	1.91	20.17	0.51	11.34	11.85	-11.71	1.97	20.18	1.13	10.43	11.56
5510	0.00	-10.98	1.96	20.17	0.51	11.15	11.66	-11.19	2.05	20.17	1.13	11.03	12.16
5550	0.00	-11.30	1.95	20.17	0.51	10.82	11.33	-11.43	2.04	20.17	1.13	10.78	11.91
5670	0.00	-11.54	1.94	20.17	0.51	10.56	11.07	-11.41	2.01	20.17	1.13	10.78	11.91
5710	0.00	-11.47	1.93	20.17	0.51	10.63	11.14	-11.65	2.00	20.17	1.13	10.53	11.66
5755	0.00	-11.50	1.97	20.17	0.51	10.63	11.14	-11.39	2.04	20.17	1.13	10.82	11.95
5795	0.00	-11.35	1.96	20.17	0.51	10.77	11.28	-11.25	2.02	20.17	1.13	10.95	12.08

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-40 (OFDM) (CDD)

[High Power mode]

11ax-40 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	12.61	11.11	23.72	13.75	23.97	10.22	16.36	14.41	30.77	14.88	29.97	15.09
5230	11.82	10.93	22.75	13.57	23.97	10.40	15.33	14.18	29.51	14.70	29.97	15.27
5270	12.28	11.25	23.53	13.72	23.97	10.25	15.93	14.59	30.52	14.85	29.97	15.12
5310	13.58	11.46	25.05	13.99	23.97	9.98	17.62	14.87	32.49	15.12	29.97	14.85
5510	13.20	13.31	26.51	14.23	23.97	9.74	17.13	17.26	34.39	15.36	29.97	14.61
5550	12.28	12.57	24.84	13.95	23.97	10.02	15.92	16.30	32.23	15.08	29.97	14.89
5670	11.68	12.81	24.49	13.89	23.97	10.08	15.15	16.62	31.77	15.02	29.97	14.95
5710	11.90	11.66	23.57	13.72	23.97	10.25	15.44	15.13	30.57	14.85	29.97	15.12
5755	11.81	11.59	23.40	13.69	30.00	16.31	15.32	15.03	30.35	14.82	36.00	21.18
5795	12.29	12.32	24.61	13.91	30.00	16.09	15.94	15.98	31.92	15.04	36.00	20.96

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	0.00	-11.07	1.91	20.17	1.13	11.01	12.14	-11.67	1.95	20.18	1.13	10.46	11.59
5230	0.00	-11.35	1.91	20.17	1.13	10.73	11.86	-11.74	1.95	20.18	1.13	10.39	11.52
5270	0.00	-11.19	1.91	20.17	1.13	10.89	12.02	-11.63	1.96	20.18	1.13	10.51	11.64
5310	0.00	-10.75	1.91	20.17	1.13	11.33	12.46	-11.55	1.97	20.18	1.13	10.59	11.72
5510	0.00	-10.92	1.96	20.17	1.13	11.21	12.34	-10.98	2.05	20.17	1.13	11.24	12.37
5550	0.00	-11.23	1.95	20.17	1.13	10.89	12.02	-11.22	2.04	20.17	1.13	10.99	12.12
5670	0.00	-11.43	1.94	20.17	1.13	10.67	11.80	-11.11	2.01	20.17	1.13	11.08	12.21
5710	0.00	-11.34	1.93	20.17	1.13	10.76	11.89	-11.51	2.00	20.17	1.13	10.67	11.80
5755	0.00	-11.41	1.97	20.17	1.13	10.72	11.85	-11.57	2.04	20.17	1.13	10.64	11.77
5795	0.00	-11.23	1.96	20.17	1.13	10.89	12.02	-11.29	2.02	20.17	1.13	10.91	12.04

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (43.281 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-40 (OFDM) (SDM)

[High Power mode]

11ax-40 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	12.73	11.36	24.09	13.82	23.97	10.15	14.31	14.74	29.06	14.63	29.97	15.34
5230	12.29	10.93	23.22	13.66	23.97	10.31	13.82	14.18	28.00	14.47	29.97	15.50
5270	12.34	11.48	23.82	13.77	23.97	10.20	13.88	14.90	28.77	14.59	29.97	15.38
5310	13.65	11.28	24.93	13.97	23.97	10.00	15.35	14.63	29.98	14.77	29.97	15.20
5510	13.23	13.46	26.69	14.26	23.97	9.71	14.88	17.46	32.34	15.10	29.97	14.87
5550	12.42	12.63	25.04	13.99	23.97	9.98	13.97	16.38	30.34	14.82	29.97	15.15
5670	11.70	12.64	24.34	13.86	23.97	10.11	13.16	16.39	29.55	14.71	29.97	15.26
5710	11.93	11.71	23.65	13.74	23.97	10.23	13.42	15.20	28.62	14.57	29.97	15.40
5755	11.86	11.91	23.77	13.76	30.00	16.24	13.34	15.45	28.79	14.59	36.00	21.41
5795	12.15	12.29	24.44	13.88	30.00	16.12	13.66	15.94	29.60	14.71	36.00	21.29

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-11.03	1.91	20.17	0.51	11.05	11.56	-11.57	1.95	20.18	1.13	10.56	11.69
5230	0.00	-11.18	1.91	20.17	0.51	10.90	11.41	-11.74	1.95	20.18	1.13	10.39	11.52
5270	0.00	-11.17	1.91	20.17	0.51	10.91	11.42	-11.54	1.96	20.18	1.13	10.60	11.73
5310	0.00	-10.73	1.91	20.17	0.51	11.35	11.86	-11.62	1.97	20.18	1.13	10.52	11.65
5510	0.00	-10.91	1.96	20.17	0.51	11.22	11.73	-10.93	2.05	20.17	1.13	11.29	12.42
5550	0.00	-11.18	1.95	20.17	0.51	10.94	11.45	-11.20	2.04	20.17	1.13	11.01	12.14
5670	0.00	-11.42	1.94	20.17	0.51	10.68	11.19	-11.17	2.01	20.17	1.13	11.02	12.15
5710	0.00	-11.33	1.93	20.17	0.51	10.77	11.28	-11.49	2.00	20.17	1.13	10.69	11.82
5755	0.00	-11.39	1.97	20.17	0.51	10.74	11.25	-11.45	2.04	20.17	1.13	10.76	11.89
5795	0.00	-11.28	1.96	20.17	0.51	10.84	11.35	-11.30	2.02	20.17	1.13	10.90	12.03

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (43.281 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 26-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	0	2.70	2.40	5.10	7.07	23.97	16.90	3.50	3.11	6.61	8.20	29.97	21.77
	8	2.50	2.31	4.81	6.83	23.97	17.14	3.24	3.00	6.25	7.96	29.97	22.01
	17	2.59	2.40	4.99	6.98	23.97	16.99	3.36	3.11	6.48	8.11	29.97	21.86
5230	0	2.60	2.40	5.00	6.99	23.97	16.98	3.37	3.11	6.48	8.12	29.97	21.85
	8	2.53	2.39	4.91	6.92	23.97	17.05	3.28	3.09	6.38	8.05	29.97	21.92
	17	2.61	2.47	5.08	7.05	23.97	16.92	3.38	3.20	6.58	8.18	29.97	21.79
5270	0	8.91	8.89	17.80	12.50	23.97	11.47	11.56	11.54	23.09	13.63	29.97	16.34
	8	8.87	8.34	17.20	12.36	23.97	11.61	11.50	10.82	22.32	13.49	29.97	16.48
	17	9.05	8.98	18.03	12.56	23.97	11.41	11.74	11.64	23.39	13.69	29.97	16.28
5310	0	10.27	8.74	19.01	12.79	23.97	11.18	13.32	11.34	24.66	13.92	29.97	16.05
	8	9.56	7.95	17.51	12.43	23.97	11.54	12.41	10.31	22.72	13.56	29.97	16.41
	17	9.83	8.86	18.69	12.72	23.97	11.25	12.75	11.49	24.25	13.85	29.97	16.12

			5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result			
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.		
							[dBm]	[dBm]					[dBm]	[dBm]		
5190	0	0.00	-17.77	1.91	20.17	1.13	4.31	5.44	-18.33	1.96	20.18	1.13	3.80	4.93		
	8	0.00	-18.10	1.91	20.17	1.13	3.98	5.11	-18.49	1.96	20.18	1.13	3.64	4.77		
	17	0.00	-17.94	1.91	20.17	1.13	4.14	5.27	-18.33	1.96	20.18	1.13	3.80	4.93		
5230	0	0.00	-17.93	1.91	20.17	1.13	4.15	5.28	-18.34	1.96	20.18	1.13	3.80	4.93		
	8	0.00	-18.05	1.91	20.17	1.13	4.03	5.16	-18.36	1.96	20.18	1.13	3.78	4.91		
	17	0.00	-17.92	1.91	20.17	1.13	4.16	5.29	-18.21	1.96	20.18	1.13	3.93	5.06		
5270	0	0.00	-12.59	1.92	20.17	1.13	9.50	10.63	-12.66	1.98	20.18	1.13	9.49	10.62		
	8	0.00	-12.61	1.92	20.17	1.13	9.48	10.61	-12.94	1.98	20.18	1.13	9.21	10.34		
	17	0.00	-12.52	1.92	20.17	1.13	9.57	10.70	-12.62	1.98	20.18	1.13	9.53	10.66		
5310	0	0.00	-11.97	1.92	20.17	1.13	10.12	11.25	-12.74	1.98	20.18	1.13	9.41	10.54		
	8	0.00	-12.28	1.92	20.17	1.13	9.81	10.94	-13.15	1.98	20.18	1.13	9.00	10.13		
	17	0.00	-12.16	1.92	20.17	1.13	9.93	11.06	-12.68	1.98	20.18	1.13	9.47	10.60		

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 26-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	0	10.81	10.62	21.43	13.31	23.97	10.66	14.02	13.78	27.79	14.44	29.97	15.53
	8	10.18	10.21	20.39	13.09	23.97	10.88	13.20	13.25	26.45	14.22	29.97	15.75
	17	10.51	10.82	21.33	13.29	23.97	10.68	13.64	14.03	27.67	14.42	29.97	15.55
5550	0	9.93	10.53	20.46	13.11	23.97	10.86	12.89	13.66	26.55	14.24	29.97	15.73
	8	9.38	9.69	19.07	12.80	23.97	11.17	12.17	12.57	24.74	13.93	29.97	16.04
	17	9.89	10.46	20.35	13.08	23.97	10.89	12.83	13.57	26.39	14.21	29.97	15.76
5670	0	9.32	9.40	18.73	12.73	23.97	11.24	12.10	12.20	24.29	13.86	29.97	16.11
	8	8.99	9.34	18.33	12.63	23.97	11.34	11.66	12.11	23.77	13.76	29.97	16.21
	17	9.18	9.80	18.98	12.78	23.97	11.19	11.90	12.71	24.62	13.91	29.97	16.06
5710	0	9.00	8.84	17.84	12.51	23.97	11.46	11.67	11.47	23.14	13.64	29.97	16.33
	8	8.79	8.80	17.60	12.45	23.97	11.52	11.41	11.42	22.82	13.58	29.97	16.39
	17	8.77	9.26	18.03	12.56	23.97	11.41	11.38	12.01	23.39	13.69	29.97	16.28
5755	0	9.05	9.33	18.38	12.64	30.00	17.36	11.74	12.11	23.85	13.77	36.00	22.23
	8	8.68	8.83	17.51	12.43	30.00	17.57	11.26	11.46	22.72	13.56	36.00	22.44
	17	9.28	10.07	19.35	12.87	30.00	17.13	12.04	13.06	25.10	14.00	36.00	22.00
5795	0	9.64	9.46	19.10	12.81	30.00	17.19	12.50	12.27	24.77	13.94	36.00	22.06
	8	9.08	8.95	18.03	12.56	30.00	17.44	11.78	11.61	23.39	13.69	36.00	22.31
	17	9.51	10.04	19.55	12.91	30.00	17.09	12.33	13.03	25.36	14.04	36.00	21.96

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result Cond. Power [dBm] e.i.r.p. [dBm]		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result Cond. Power [dBm] e.i.r.p. [dBm]	
[MHz]														
5510	0	0.00	-11.79	1.96	20.17	1.13	10.34	11.47	-11.96	2.05	20.17	1.13	10.26	11.39
	8	0.00	-12.05	1.96	20.17	1.13	10.08	11.21	-12.13	2.05	20.17	1.13	10.09	11.22
	17	0.00	-11.91	1.96	20.17	1.13	10.22	11.35	-11.88	2.05	20.17	1.13	10.34	11.47
5550	0	0.00	-12.15	1.96	20.16	1.13	9.97	11.10	-11.99	2.04	20.17	1.13	10.22	11.35
	8	0.00	-12.40	1.96	20.16	1.13	9.72	10.85	-12.35	2.04	20.17	1.13	9.86	10.99
	17	0.00	-12.17	1.96	20.16	1.13	9.95	11.08	-12.02	2.04	20.17	1.13	10.19	11.32
5670	0	0.00	-12.41	1.94	20.16	1.13	9.70	10.83	-12.46	2.02	20.17	1.13	9.73	10.86
	8	0.00	-12.57	1.94	20.16	1.13	9.54	10.67	-12.49	2.02	20.17	1.13	9.70	10.83
	17	0.00	-12.48	1.94	20.16	1.13	9.63	10.76	-12.28	2.02	20.17	1.13	9.91	11.04
5710	0	0.00	-12.56	1.94	20.16	1.13	9.54	10.67	-12.72	2.01	20.17	1.13	9.47	10.60
	8	0.00	-12.66	1.94	20.16	1.13	9.44	10.57	-12.74	2.01	20.17	1.13	9.45	10.58
	17	0.00	-12.67	1.94	20.16	1.13	9.43	10.56	-12.52	2.01	20.17	1.13	9.67	10.80
5755	0	0.00	-12.57	1.98	20.16	1.13	9.57	10.70	-12.52	2.05	20.17	1.13	9.70	10.83
	8	0.00	-12.75	1.98	20.16	1.13	9.39	10.52	-12.76	2.05	20.17	1.13	9.46	10.59
	17	0.00	-12.46	1.98	20.16	1.13	9.68	10.81	-12.19	2.05	20.17	1.13	10.03	11.16
5795	0	0.00	-12.29	1.97	20.16	1.13	9.84	10.97	-12.45	2.03	20.17	1.13	9.76	10.89
	8	0.00	-12.55	1.97	20.16	1.13	9.58	10.71	-12.69	2.03	20.17	1.13	9.52	10.65
	17	0.00	-12.35	1.97	20.16	1.13	9.78	10.91	-12.19	2.03	20.17	1.13	10.02	11.15

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) <= 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 26-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.				
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	0	2.64	2.42	5.06	7.04	23.97	16.93	2.97	3.14	6.11	7.86	29.97	22.11
	8	2.47	2.34	4.81	6.82	23.97	17.15	2.77	3.04	5.81	7.64	29.97	22.33
	17	2.58	2.42	5.00	6.99	23.97	16.98	2.90	3.14	6.04	7.81	29.97	22.16
5230	0	2.55	2.39	4.94	6.94	23.97	17.03	2.86	3.10	5.97	7.76	29.97	22.21
	8	2.41	2.27	4.68	6.70	23.97	17.27	2.71	2.94	5.65	7.52	29.97	22.45
	17	2.48	2.37	4.85	6.86	23.97	17.11	2.79	3.07	5.87	7.68	29.97	22.29
5270	0	8.81	9.46	18.27	12.62	23.97	11.35	9.90	12.28	22.18	13.46	29.97	16.51
	8	8.57	8.22	16.79	12.25	23.97	11.72	9.63	10.67	20.30	13.08	29.97	16.89
	17	8.91	8.95	17.86	12.52	23.97	11.45	10.02	11.62	21.63	13.35	29.97	16.62
5310	0	10.25	8.56	18.81	12.74	23.97	11.23	11.52	11.10	22.63	13.55	29.97	16.42
	8	9.48	8.14	17.61	12.46	23.97	11.51	10.66	10.55	21.21	13.27	29.97	16.70
	17	10.22	8.58	18.80	12.74	23.97	11.23	11.50	11.13	22.63	13.55	29.97	16.42

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0	0.00	-17.86	1.91	20.17	0.51	4.22	4.73	-18.30	1.96	20.18	1.13	3.83	4.96
	8	0.00	-18.16	1.91	20.17	0.51	3.92	4.43	-18.44	1.96	20.18	1.13	3.69	4.82
	17	0.00	-17.97	1.91	20.17	0.51	4.11	4.62	-18.29	1.96	20.18	1.13	3.84	4.97
5230	0	0.00	-18.02	1.91	20.17	0.51	4.06	4.57	-18.35	1.96	20.18	1.13	3.79	4.92
	8	0.00	-18.26	1.91	20.17	0.51	3.82	4.33	-18.58	1.96	20.18	1.13	3.56	4.69
	17	0.00	-18.13	1.91	20.17	0.51	3.95	4.46	-18.39	1.96	20.18	1.13	3.75	4.88
5270	0	0.00	-12.64	1.92	20.17	0.51	9.45	9.96	-12.39	1.98	20.18	1.13	9.76	10.89
	8	0.00	-12.76	1.92	20.17	0.51	9.33	9.84	-13.00	1.98	20.18	1.13	9.15	10.28
	17	0.00	-12.59	1.92	20.17	0.51	9.50	10.01	-12.63	1.98	20.18	1.13	9.52	10.65
5310	0	0.00	-11.98	1.92	20.17	0.51	10.11	10.62	-12.83	1.98	20.18	1.13	9.32	10.45
	8	0.00	-12.32	1.92	20.17	0.51	9.77	10.28	-13.05	1.98	20.18	1.13	9.10	10.23
	17	0.00	-11.99	1.92	20.17	0.51	10.10	10.61	-12.82	1.98	20.18	1.13	9.33	10.46

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 26-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	0	10.73	10.55	21.28	13.28	23.97	10.69	12.07	13.68	25.75	14.11	29.97	15.86
	8	10.27	10.14	20.41	13.10	23.97	10.87	11.55	13.16	24.71	13.93	29.97	16.04
	17	10.32	10.84	21.16	13.26	23.97	10.71	11.61	14.07	25.67	14.09	29.97	15.88
5550	0	10.03	10.70	20.73	13.17	23.97	10.80	11.28	13.88	25.16	14.01	29.97	15.96
	8	9.51	10.10	19.61	12.93	23.97	11.04	10.69	13.10	23.80	13.77	29.97	16.20
	17	9.91	10.51	20.42	13.10	23.97	10.87	11.15	13.63	24.77	13.94	29.97	16.03
5670	0	9.45	9.82	19.28	12.85	23.97	11.12	10.63	12.74	23.38	13.69	29.97	16.28
	8	8.99	9.65	18.63	12.70	23.97	11.27	10.11	12.51	22.62	13.54	29.97	16.43
	17	9.41	9.65	19.06	12.80	23.97	11.17	10.58	12.51	23.09	13.64	29.97	16.33
5710	0	9.02	9.11	18.13	12.58	23.97	11.39	10.14	11.82	21.96	13.42	29.97	16.55
	8	8.75	9.20	17.95	12.54	23.97	11.43	9.84	11.93	21.77	13.38	29.97	16.59
	17	9.19	9.65	18.84	12.75	23.97	11.22	10.33	12.52	22.85	13.59	29.97	16.38
5755	0	9.28	9.31	18.59	12.69	30.00	17.31	10.44	12.08	22.52	13.53	36.00	22.47
	8	9.28	9.31	18.59	12.69	30.00	17.31	10.44	12.08	22.52	13.53	36.00	22.47
	17	9.03	9.82	18.85	12.75	30.00	17.25	10.15	12.74	22.89	13.60	36.00	22.40
5795	0	9.55	9.52	19.07	12.80	30.00	17.20	10.74	12.35	23.09	13.63	36.00	22.37
	8	9.25	9.55	18.79	12.74	30.00	17.26	10.40	12.38	22.78	13.58	36.00	22.42
	17	9.93	10.16	20.09	13.03	30.00	16.97	11.17	13.18	24.35	13.86	36.00	22.14

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		e.i.r.p.
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5510	0	0.00	-11.82	1.96	20.17	0.51	10.31	10.82	-11.99	2.05	20.17	1.13	10.23	11.36	
	8	0.00	-12.01	1.96	20.17	0.51	10.12	10.63	-12.16	2.05	20.17	1.13	10.06	11.19	
	17	0.00	-11.99	1.96	20.17	0.51	10.14	10.65	-11.87	2.05	20.17	1.13	10.35	11.48	
5550	0	0.00	-12.11	1.96	20.16	0.51	10.01	10.52	-11.92	2.04	20.17	1.13	10.29	11.42	
	8	0.00	-12.34	1.96	20.16	0.51	9.78	10.29	-12.17	2.04	20.17	1.13	10.04	11.17	
	17	0.00	-12.16	1.96	20.16	0.51	9.96	10.47	-12.00	2.04	20.17	1.13	10.21	11.34	
5670	0	0.00	-12.35	1.94	20.16	0.51	9.76	10.27	-12.27	2.02	20.17	1.13	9.92	11.05	
	8	0.00	-12.57	1.94	20.16	0.51	9.54	10.05	-12.35	2.02	20.17	1.13	9.84	10.97	
	17	0.00	-12.37	1.94	20.16	0.51	9.74	10.25	-12.35	2.02	20.17	1.13	9.84	10.97	
5710	0	0.00	-12.55	1.94	20.16	0.51	9.55	10.06	-12.59	2.01	20.17	1.13	9.60	10.73	
	8	0.00	-12.68	1.94	20.16	0.51	9.42	9.93	-12.55	2.01	20.17	1.13	9.64	10.77	
	17	0.00	-12.47	1.94	20.16	0.51	9.63	10.14	-12.34	2.01	20.17	1.13	9.85	10.98	
5755	0	0.00	-12.46	1.98	20.16	0.51	9.68	10.19	-12.53	2.05	20.17	1.13	9.69	10.82	
	8	0.00	-12.46	1.98	20.16	0.51	9.68	10.19	-12.53	2.05	20.17	1.13	9.69	10.82	
	17	0.00	-12.58	1.98	20.16	0.51	9.56	10.07	-12.30	2.05	20.17	1.13	9.92	11.05	
5795	0	0.00	-12.33	1.97	20.16	0.51	9.80	10.31	-12.42	2.03	20.17	1.13	9.79	10.92	
	8	0.00	-12.47	1.97	20.16	0.51	9.66	10.17	-12.41	2.03	20.17	1.13	9.80	10.93	
	17	0.00	-12.16	1.97	20.16	0.51	9.97	10.48	-12.14	2.03	20.17	1.13	10.07	11.20	

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) = 1 W

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	37	5.99	5.77	11.76	10.70	23.97	13.27	7.76	7.49	15.25	11.83	29.97	18.14
	40	6.01	5.40	11.41	10.57	23.97	13.40	7.80	7.00	14.80	11.70	29.97	18.27
	44	5.97	5.58	11.55	10.62	23.97	13.35	7.75	7.23	14.98	11.75	29.97	18.22
5230	37	5.64	5.29	10.93	10.39	23.97	13.58	7.31	6.87	14.18	11.52	29.97	18.45
	40	5.73	5.35	11.08	10.45	23.97	13.52	7.43	6.94	14.37	11.58	29.97	18.39
	44	5.97	5.70	11.67	10.67	23.97	13.30	7.74	7.39	15.13	11.80	29.97	18.17
5270	37	13.33	11.64	24.97	13.97	23.97	10.00	17.29	15.10	32.39	15.10	29.97	14.87
	40	12.30	11.51	23.81	13.77	23.97	10.20	15.95	14.93	30.88	14.90	29.97	15.07
	44	12.82	11.89	24.70	13.93	23.97	10.04	16.63	15.42	32.04	15.06	29.97	14.91
5310	37	14.02	11.71	25.72	14.10	23.97	9.87	18.18	15.19	33.37	15.23	29.97	14.74
	40	14.02	11.63	25.64	14.09	23.97	9.88	18.18	15.08	33.26	15.22	29.97	14.75
	44	14.02	12.06	26.08	14.16	23.97	9.81	18.18	15.65	33.83	15.29	29.97	14.68

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	
							[dBm]	[dBm]					[dBm]	[dBm]	
5190	37	0.00	-14.31	1.91	20.17	1.13	7.77	8.90	-14.52	1.96	20.18	1.13	7.61	8.74	
	40	0.00	-14.29	1.91	20.17	1.13	7.79	8.92	-14.81	1.96	20.18	1.13	7.32	8.45	
	44	0.00	-14.32	1.91	20.17	1.13	7.76	8.89	-14.67	1.96	20.18	1.13	7.46	8.59	
5230	37	0.00	-14.57	1.91	20.17	1.13	7.51	8.64	-14.90	1.96	20.18	1.13	7.24	8.37	
	40	0.00	-14.50	1.91	20.17	1.13	7.58	8.71	-14.85	1.96	20.18	1.13	7.29	8.42	
	44	0.00	-14.32	1.91	20.17	1.13	7.76	8.89	-14.58	1.96	20.18	1.13	7.56	8.69	
5270	37	0.00	-10.84	1.92	20.17	1.13	11.25	12.38	-11.49	1.98	20.18	1.13	10.66	11.79	
	40	0.00	-11.19	1.92	20.17	1.13	10.90	12.03	-11.54	1.98	20.18	1.13	10.61	11.74	
	44	0.00	-11.01	1.92	20.17	1.13	11.08	12.21	-11.40	1.98	20.18	1.13	10.75	11.88	
5310	37	0.00	-10.62	1.92	20.17	1.13	11.47	12.60	-11.47	1.98	20.18	1.13	10.68	11.81	
	40	0.00	-10.62	1.92	20.17	1.13	11.47	12.60	-11.50	1.98	20.18	1.13	10.65	11.78	
	44	0.00	-10.62	1.92	20.17	1.13	11.47	12.60	-11.34	1.98	20.18	1.13	10.81	11.94	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	37	13.95	13.75	27.70	14.42	23.97	9.55	18.10	17.83	35.93	15.55	29.97	14.42
	40	13.17	13.43	26.60	14.25	23.97	9.72	17.09	17.42	34.51	15.38	29.97	14.59
	44	13.73	14.10	27.83	14.44	23.97	9.53	17.81	18.29	36.10	15.57	29.97	14.40
5550	37	13.01	13.26	26.26	14.19	23.97	9.78	16.87	17.20	34.07	15.32	29.97	14.65
	40	12.25	12.66	24.91	13.96	23.97	10.01	15.89	16.42	32.31	15.09	29.97	14.88
	44	13.16	13.57	26.72	14.27	23.97	9.70	17.07	17.60	34.66	15.40	29.97	14.57
5670	37	12.26	12.95	25.22	14.02	23.97	9.95	15.91	16.80	32.71	15.15	29.97	14.82
	40	11.45	12.63	24.07	13.82	23.97	10.15	14.85	16.38	31.23	14.95	29.97	15.02
	44	11.93	12.98	24.91	13.96	23.97	10.01	15.48	16.84	32.31	15.09	29.97	14.88
5710	37	12.22	11.74	23.96	13.79	23.97	10.18	15.85	15.23	31.08	14.92	29.97	15.05
	40	11.78	11.77	23.54	13.72	23.97	10.25	15.28	15.26	30.54	14.85	29.97	15.12
	44	12.28	12.64	24.91	13.96	23.97	10.01	15.93	16.39	32.32	15.09	29.97	14.88
5755	37	12.26	12.05	24.32	13.86	30.00	16.14	15.91	15.63	31.54	14.99	36.00	21.01
	40	11.98	11.97	23.95	13.79	30.00	16.21	15.55	15.53	31.07	14.92	36.00	21.08
	44	12.75	12.80	25.55	14.07	30.00	15.93	16.54	16.60	33.14	15.20	36.00	20.80
5795	37	12.85	12.61	25.47	14.06	30.00	15.94	16.67	16.36	33.03	15.19	36.00	20.81
	40	11.97	12.70	24.67	13.92	30.00	16.08	15.52	16.47	32.00	15.05	36.00	20.95
	44	12.94	13.58	26.52	14.24	30.00	15.76	16.79	17.61	34.40	15.37	36.00	20.63

			5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result			
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]		
5510	37	0.00	-10.68	1.96	20.17	1.13	11.45	12.58	-10.84	2.05	20.17	1.13	11.38	12.51		
	40	0.00	-10.93	1.96	20.17	1.13	11.20	12.33	-10.94	2.05	20.17	1.13	11.28	12.41		
	44	0.00	-10.75	1.96	20.17	1.13	11.38	12.51	-10.73	2.05	20.17	1.13	11.49	12.62		
5550	37	0.00	-10.98	1.96	20.16	1.13	11.14	12.27	-10.99	2.04	20.17	1.13	11.22	12.35		
	40	0.00	-11.24	1.96	20.16	1.13	10.88	12.01	-11.19	2.04	20.17	1.13	11.02	12.15		
	44	0.00	-10.93	1.96	20.16	1.13	11.19	12.32	-10.89	2.04	20.17	1.13	11.32	12.45		
5670	37	0.00	-11.22	1.94	20.16	1.13	10.89	12.02	-11.07	2.02	20.17	1.13	11.12	12.25		
	40	0.00	-11.52	1.94	20.16	1.13	10.59	11.72	-11.18	2.02	20.17	1.13	11.01	12.14		
	44	0.00	-11.34	1.94	20.16	1.13	10.77	11.90	-11.06	2.02	20.17	1.13	11.13	12.26		
5710	37	0.00	-11.23	1.94	20.16	1.13	10.87	12.00	-11.49	2.01	20.17	1.13	10.70	11.83		
	40	0.00	-11.39	1.94	20.16	1.13	10.71	11.84	-11.48	2.01	20.17	1.13	10.71	11.84		
	44	0.00	-11.21	1.94	20.16	1.13	10.89	12.02	-11.17	2.01	20.17	1.13	11.02	12.15		
5755	37	0.00	-11.25	1.98	20.16	1.13	10.89	12.02	-11.41	2.05	20.17	1.13	10.81	11.94		
	40	0.00	-11.35	1.98	20.16	1.13	10.79	11.92	-11.44	2.05	20.17	1.13	10.78	11.91		
	44	0.00	-11.08	1.98	20.16	1.13	11.06	12.19	-11.15	2.05	20.17	1.13	11.07	12.20		
5795	37	0.00	-11.04	1.97	20.16	1.13	11.09	12.22	-11.20	2.03	20.17	1.13	11.01	12.14		
	40	0.00	-11.35	1.97	20.16	1.13	10.78	11.91	-11.17	2.03	20.17	1.13	11.04	12.17		
	44	0.00	-11.01	1.97	20.16	1.13	11.12	12.25	-10.88	2.03	20.17	1.13	11.33	12.46		

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT))= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5190	37	5.74	5.41	11.15	10.47	23.97	13.50		6.46	7.02	13.48	11.30	29.97	18.67	
	40	5.25	4.78	10.03	10.01	23.97	13.96		5.90	6.20	12.10	10.83	29.97	19.14	
	44	5.42	5.00	10.42	10.18	23.97	13.79		6.10	6.49	12.59	11.00	29.97	18.97	
5230	37	5.43	5.07	10.50	10.21	23.97	13.76		6.11	6.57	12.68	11.03	29.97	18.94	
	40	5.08	4.80	9.89	9.95	23.97	14.02		5.71	6.23	11.95	10.77	29.97	19.20	
	44	5.49	5.12	10.62	10.26	23.97	13.71		6.18	6.65	12.83	11.08	29.97	18.89	
5270	37	11.77	10.28	22.05	13.43	23.97	10.54		13.24	13.34	26.57	14.24	29.97	15.73	
	40	11.34	9.84	21.19	13.26	23.97	10.71		12.76	12.77	25.52	14.07	29.97	15.90	
	44	11.91	10.94	22.85	13.59	23.97	10.38		13.39	14.19	27.58	14.41	29.97	15.56	
5310	37	12.78	10.46	23.24	13.66	23.97	10.31		14.38	13.57	27.94	14.46	29.97	15.51	
	40	12.38	10.03	22.41	13.50	23.97	10.47		13.92	13.01	26.93	14.30	29.97	15.67	
	44	12.55	10.22	22.77	13.57	23.97	10.40		14.11	13.26	27.37	14.37	29.97	15.60	

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		e.i.r.p.
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5190	37	0.00	-14.49	1.91	20.17	0.51	7.59	8.10	-14.80	1.96	20.18	1.13	7.33	8.46	
	40	0.00	-14.88	1.91	20.17	0.51	7.20	7.71	-15.34	1.96	20.18	1.13	6.79	7.92	
	44	0.00	-14.74	1.91	20.17	0.51	7.34	7.85	-15.14	1.96	20.18	1.13	6.99	8.12	
5230	37	0.00	-14.73	1.91	20.17	0.51	7.35	7.86	-15.09	1.96	20.18	1.13	7.05	8.18	
	40	0.00	-15.02	1.91	20.17	0.51	7.06	7.57	-15.32	1.96	20.18	1.13	6.82	7.95	
	44	0.00	-14.68	1.91	20.17	0.51	7.40	7.91	-15.04	1.96	20.18	1.13	7.10	8.23	
5270	37	0.00	-11.38	1.92	20.17	0.51	10.71	11.22	-12.03	1.98	20.18	1.13	10.12	11.25	
	40	0.00	-11.54	1.92	20.17	0.51	10.55	11.06	-12.22	1.98	20.18	1.13	9.93	11.06	
	44	0.00	-11.33	1.92	20.17	0.51	10.76	11.27	-11.76	1.98	20.18	1.13	10.39	11.52	
5310	37	0.00	-11.02	1.92	20.17	0.51	11.07	11.58	-11.96	1.98	20.18	1.13	10.19	11.32	
	40	0.00	-11.16	1.92	20.17	0.51	10.93	11.44	-12.14	1.98	20.18	1.13	10.01	11.14	
	44	0.00	-11.10	1.92	20.17	0.51	10.99	11.50	-12.06	1.98	20.18	1.13	10.09	11.22	

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.				
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	37	12.24	12.51	24.74	13.93	23.97	10.04	13.76	16.22	29.98	14.77	29.97	15.20
	40	11.58	12.36	23.94	13.79	23.97	10.18	13.02	16.04	29.06	14.63	29.97	15.34
	44	11.93	12.71	24.64	13.92	23.97	10.05	13.42	16.49	29.90	14.76	29.97	15.21
5550	37	11.51	12.17	23.69	13.74	23.97	10.23	12.95	15.79	28.74	14.58	29.97	15.39
	40	10.92	11.79	22.71	13.56	23.97	10.41	12.28	15.29	27.57	14.40	29.97	15.57
	44	11.65	12.23	23.88	13.78	23.97	10.19	13.10	15.86	28.96	14.62	29.97	15.35
5670	37	11.87	11.84	23.71	13.75	23.97	10.22	13.35	15.36	28.71	14.58	29.97	15.39
	40	11.55	11.84	23.39	13.69	23.97	10.28	12.99	15.36	28.35	14.53	29.97	15.44
	44	12.21	12.74	24.95	13.97	23.97	10.00	13.73	16.53	30.26	14.81	29.97	15.16
5710	37	11.97	10.88	22.85	13.59	23.97	10.38	13.46	14.11	27.57	14.41	29.97	15.56
	40	11.81	10.37	22.17	13.46	23.97	10.51	13.28	13.45	26.72	14.27	29.97	15.70
	44	12.08	10.83	22.91	13.60	23.97	10.37	13.59	14.05	27.63	14.41	29.97	15.56
5755	37	12.18	12.45	24.63	13.91	30.00	16.09	13.70	16.15	29.84	14.75	36.00	21.25
	40	11.45	11.64	23.09	13.63	30.00	16.37	12.87	15.10	27.97	14.47	36.00	21.53
	44	12.64	13.21	25.85	14.12	30.00	15.88	14.21	17.14	31.35	14.96	36.00	21.04
5795	37	12.16	12.64	24.80	13.95	30.00	16.05	13.68	16.40	30.08	14.78	36.00	21.22
	40	11.99	12.21	24.21	13.84	30.00	16.16	13.49	15.84	29.33	14.67	36.00	21.33
	44	12.65	12.97	25.61	14.08	30.00	15.92	14.22	16.82	31.04	14.92	36.00	21.08

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		e.i.r.p.
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5510	37	0.00	-11.25	1.96	20.17	0.51	10.88	11.39	-11.25	2.05	20.17	1.13	10.97	12.10	
	40	0.00	-11.49	1.96	20.17	0.51	10.64	11.15	-11.30	2.05	20.17	1.13	10.92	12.05	
	44	0.00	-11.36	1.96	20.17	0.51	10.77	11.28	-11.18	2.05	20.17	1.13	11.04	12.17	
5550	37	0.00	-11.51	1.96	20.16	0.51	10.61	11.12	-11.36	2.04	20.17	1.13	10.85	11.98	
	40	0.00	-11.74	1.96	20.16	0.51	10.38	10.89	-11.50	2.04	20.17	1.13	10.71	11.84	
	44	0.00	-11.46	1.96	20.16	0.51	10.66	11.17	-11.34	2.04	20.17	1.13	10.87	12.00	
5670	37	0.00	-11.36	1.94	20.16	0.51	10.75	11.26	-11.46	2.02	20.17	1.13	10.73	11.86	
	40	0.00	-11.48	1.94	20.16	0.51	10.63	11.14	-11.46	2.02	20.17	1.13	10.73	11.86	
	44	0.00	-11.24	1.94	20.16	0.51	10.87	11.38	-11.14	2.02	20.17	1.13	11.05	12.18	
5710	37	0.00	-11.32	1.94	20.16	0.51	10.78	11.29	-11.82	2.01	20.17	1.13	10.37	11.50	
	40	0.00	-11.38	1.94	20.16	0.51	10.72	11.23	-12.03	2.01	20.17	1.13	10.16	11.29	
	44	0.00	-11.28	1.94	20.16	0.51	10.82	11.33	-11.84	2.01	20.17	1.13	10.35	11.48	
5755	37	0.00	-11.28	1.98	20.16	0.51	10.86	11.37	-11.27	2.05	20.17	1.13	10.95	12.08	
	40	0.00	-11.55	1.98	20.16	0.51	10.59	11.10	-11.56	2.05	20.17	1.13	10.66	11.79	
	44	0.00	-11.12	1.98	20.16	0.51	11.02	11.53	-11.01	2.05	20.17	1.13	11.21	12.34	
5795	37	0.00	-11.28	1.97	20.16	0.51	10.85	11.36	-11.19	2.03	20.17	1.13	11.02	12.15	
	40	0.00	-11.34	1.97	20.16	0.51	10.79	11.30	-11.34	2.03	20.17	1.13	10.87	12.00	
	44	0.00	-11.11	1.97	20.16	0.51	11.02	11.53	-11.08	2.03	20.17	1.13	11.13	12.26	

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) = 1 W

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	53	13.13	11.78	24.91	13.96	23.97	10.01		17.03	15.28	32.31	15.09	29.97	14.88
	54	12.56	11.51	24.08	13.82	23.97	10.15		16.30	14.94	31.23	14.95	29.97	15.02
	56	13.16	11.84	24.99	13.98	23.97	9.99		17.07	15.35	32.42	15.11	29.97	14.86
5230	53	12.47	11.50	23.97	13.80	23.97	10.17		16.18	14.92	31.09	14.93	29.97	15.04
	54	12.33	11.11	23.44	13.70	23.97	10.27		15.99	14.41	30.40	14.83	29.97	15.14
	56	12.91	11.79	24.70	13.93	23.97	10.04		16.75	15.30	32.05	15.06	29.97	14.91
5270	53	11.37	10.52	21.89	13.40	23.97	10.57		14.75	13.65	28.40	14.53	29.97	15.44
	54	11.29	10.62	21.91	13.41	23.97	10.56		14.65	13.77	28.42	14.54	29.97	15.43
	56	11.93	11.09	23.03	13.62	23.97	10.35		15.48	14.39	29.87	14.75	29.97	15.22
5310	53	12.43	10.55	22.99	13.62	23.97	10.35		16.13	13.69	29.82	14.75	29.97	15.22
	54	12.35	10.36	22.71	13.56	23.97	10.41		16.02	13.44	29.46	14.69	29.97	15.28
	56	12.69	10.83	23.52	13.71	23.97	10.26		16.47	14.04	30.51	14.84	29.97	15.13

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.
							[dBm]	[dBm]					[dBm]	[dBm]
5190	53	0.00	-10.90	1.91	20.17	1.13	11.18	12.31	-11.42	1.96	20.18	1.13	10.71	11.84
	54	0.00	-11.09	1.91	20.17	1.13	10.99	12.12	-11.52	1.96	20.18	1.13	10.61	11.74
	56	0.00	-10.89	1.91	20.17	1.13	11.19	12.32	-11.40	1.96	20.18	1.13	10.73	11.86
5230	53	0.00	-11.12	1.91	20.17	1.13	10.96	12.09	-11.53	1.96	20.18	1.13	10.61	11.74
	54	0.00	-11.17	1.91	20.17	1.13	10.91	12.04	-11.68	1.96	20.18	1.13	10.46	11.59
	56	0.00	-10.97	1.91	20.17	1.13	11.11	12.24	-11.42	1.96	20.18	1.13	10.72	11.85
5270	53	0.00	-11.53	1.92	20.17	1.13	10.56	11.69	-11.93	1.98	20.18	1.13	10.22	11.35
	54	0.00	-11.56	1.92	20.17	1.13	10.53	11.66	-11.89	1.98	20.18	1.13	10.26	11.39
	56	0.00	-11.32	1.92	20.17	1.13	10.77	11.90	-11.70	1.98	20.18	1.13	10.45	11.58
5310	53	0.00	-11.14	1.92	20.17	1.13	10.95	12.08	-11.92	1.98	20.18	1.13	10.23	11.36
	54	0.00	-11.17	1.92	20.17	1.13	10.92	12.05	-12.00	1.98	20.18	1.13	10.15	11.28
	56	0.00	-11.05	1.92	20.17	1.13	11.04	12.17	-11.81	1.98	20.18	1.13	10.34	11.47

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5510	53	12.87	13.10	25.97	14.14	23.97	9.83	16.70	16.99	33.69	15.27	29.97	14.70		
	54	12.41	12.65	25.06	13.99	23.97	9.98	16.09	16.41	32.51	15.12	29.97	14.85		
	56	12.96	13.28	26.24	14.19	23.97	9.78	16.81	17.22	34.04	15.32	29.97	14.65		
5550	53	12.25	12.17	24.42	13.88	23.97	10.09	15.89	15.79	31.68	15.01	29.97	14.96		
	54	11.89	11.87	23.76	13.76	23.97	10.21	15.42	15.40	30.82	14.89	29.97	15.08		
	56	12.34	12.57	24.91	13.96	23.97	10.01	16.00	16.31	32.31	15.09	29.97	14.88		
5670	53	11.55	11.68	23.23	13.66	23.97	10.31	14.98	15.15	30.13	14.79	29.97	15.18		
	54	11.24	11.46	22.70	13.56	23.97	10.41	14.58	14.87	29.45	14.69	29.97	15.28		
	56	11.79	11.95	23.74	13.76	23.97	10.21	15.30	15.50	30.80	14.89	29.97	15.08		
5710	53	11.12	11.08	22.20	13.46	23.97	10.51	14.43	14.37	28.80	14.59	29.97	15.38		
	54	10.87	10.75	21.62	13.35	23.97	10.62	14.10	13.95	28.05	14.48	29.97	15.49		
	56	11.25	11.39	22.64	13.55	23.97	10.42	14.59	14.78	29.37	14.68	29.97	15.29		
5755	53	11.37	11.33	22.69	13.56	30.00	16.44	14.74	14.69	29.44	14.69	36.00	21.31		
	54	10.98	11.14	22.12	13.45	30.00	16.55	14.24	14.46	28.70	14.58	36.00	21.42		
	56	11.68	11.75	23.44	13.70	30.00	16.30	15.16	15.24	30.40	14.83	36.00	21.17		
5795	53	11.75	11.96	23.71	13.75	30.00	16.25	15.24	15.52	30.76	14.88	36.00	21.12		
	54	11.61	11.99	23.60	13.73	30.00	16.27	15.07	15.55	30.62	14.86	36.00	21.14		
	56	12.16	12.61	24.77	13.94	30.00	16.06	15.78	16.36	32.14	15.07	36.00	20.93		

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		e.i.r.p.
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5510	53	0.00	-11.03	1.96	20.17	1.13	11.10	12.23	-11.05	2.05	20.17	1.13	11.17	12.30	
	54	0.00	-11.19	1.96	20.17	1.13	10.94	12.07	-11.20	2.05	20.17	1.13	11.02	12.15	
	56	0.00	-11.00	1.96	20.17	1.13	11.13	12.26	-10.99	2.05	20.17	1.13	11.23	12.36	
5550	53	0.00	-11.24	1.96	20.16	1.13	10.88	12.01	-11.36	2.04	20.17	1.13	10.85	11.98	
	54	0.00	-11.37	1.96	20.16	1.13	10.75	11.88	-11.47	2.04	20.17	1.13	10.74	11.87	
	56	0.00	-11.21	1.96	20.16	1.13	10.91	12.04	-11.22	2.04	20.17	1.13	10.99	12.12	
5670	53	0.00	-11.48	1.94	20.16	1.13	10.63	11.76	-11.52	2.02	20.17	1.13	10.67	11.80	
	54	0.00	-11.60	1.94	20.16	1.13	10.51	11.64	-11.60	2.02	20.17	1.13	10.59	11.72	
	56	0.00	-11.39	1.94	20.16	1.13	10.72	11.85	-11.42	2.02	20.17	1.13	10.77	11.90	
5710	53	0.00	-11.64	1.94	20.16	1.13	10.46	11.59	-11.74	2.01	20.17	1.13	10.45	11.58	
	54	0.00	-11.74	1.94	20.16	1.13	10.36	11.49	-11.87	2.01	20.17	1.13	10.32	11.45	
	56	0.00	-11.59	1.94	20.16	1.13	10.51	11.64	-11.62	2.01	20.17	1.13	10.57	11.70	
5755	53	0.00	-11.58	1.98	20.16	1.13	10.56	11.69	-11.68	2.05	20.17	1.13	10.54	11.67	
	54	0.00	-11.73	1.98	20.16	1.13	10.41	11.54	-11.75	2.05	20.17	1.13	10.47	11.60	
	56	0.00	-11.46	1.98	20.16	1.13	10.68	11.81	-11.52	2.05	20.17	1.13	10.70	11.83	
5795	53	0.00	-11.43	1.97	20.16	1.13	10.70	11.83	-11.43	2.03	20.17	1.13	10.78	11.91	
	54	0.00	-11.48	1.97	20.16	1.13	10.65	11.78	-11.42	2.03	20.17	1.13	10.79	11.92	
	56	0.00	-11.28	1.97	20.16	1.13	10.85	11.98	-11.20	2.03	20.17	1.13	11.01	12.14	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	53	13.10	11.89	24.99	13.98	23.97	9.99		14.73	15.43	30.15	14.79	29.97	15.18
	54	12.68	11.30	23.98	13.80	23.97	10.17		14.26	14.66	28.92	14.61	29.97	15.36
	56	13.37	12.03	25.40	14.05	23.97	9.92		15.04	15.60	30.64	14.86	29.97	15.11
5230	53	12.68	11.63	24.31	13.86	23.97	10.11		14.25	15.09	29.34	14.68	29.97	15.29
	54	12.10	11.34	23.45	13.70	23.97	10.27		13.61	14.71	28.32	14.52	29.97	15.45
	56	12.97	11.82	24.79	13.94	23.97	10.03		14.59	15.33	29.92	14.76	29.97	15.21
5270	53	11.50	10.87	22.37	13.50	23.97	10.47		12.94	14.09	27.03	14.32	29.97	15.65
	54	11.32	10.84	22.16	13.46	23.97	10.51		12.73	14.06	26.79	14.28	29.97	15.69
	56	11.64	11.07	22.70	13.56	23.97	10.41		13.09	14.36	27.44	14.38	29.97	15.59
5310	53	12.58	10.93	23.50	13.71	23.97	10.26		14.15	14.17	28.32	14.52	29.97	15.45
	54	12.10	10.51	22.60	13.54	23.97	10.43		13.60	13.63	27.23	14.35	29.97	15.62
	56	12.99	10.98	23.97	13.80	23.97	10.17		14.61	14.24	28.85	14.60	29.97	15.37

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5190	53	0.00	-10.91	1.91	20.17	0.51	11.17	11.68	-11.38	1.96	20.18	1.13	10.75	11.88	
	54	0.00	-11.05	1.91	20.17	0.51	11.03	11.54	-11.60	1.96	20.18	1.13	10.53	11.66	
	56	0.00	-10.82	1.91	20.17	0.51	11.26	11.77	-11.33	1.96	20.18	1.13	10.80	11.93	
5230	53	0.00	-11.05	1.91	20.17	0.51	11.03	11.54	-11.48	1.96	20.18	1.13	10.66	11.79	
	54	0.00	-11.25	1.91	20.17	0.51	10.83	11.34	-11.59	1.96	20.18	1.13	10.55	11.68	
	56	0.00	-10.95	1.91	20.17	0.51	11.13	11.64	-11.41	1.96	20.18	1.13	10.73	11.86	
5270	53	0.00	-11.48	1.92	20.17	0.51	10.61	11.12	-11.79	1.98	20.18	1.13	10.36	11.49	
	54	0.00	-11.55	1.92	20.17	0.51	10.54	11.05	-11.80	1.98	20.18	1.13	10.35	11.48	
	56	0.00	-11.43	1.92	20.17	0.51	10.66	11.17	-11.71	1.98	20.18	1.13	10.44	11.57	
5310	53	0.00	-11.09	1.92	20.17	0.51	11.00	11.51	-11.77	1.98	20.18	1.13	10.38	11.51	
	54	0.00	-11.26	1.92	20.17	0.51	10.83	11.34	-11.94	1.98	20.18	1.13	10.21	11.34	
	56	0.00	-10.95	1.92	20.17	0.51	11.14	11.65	-11.75	1.98	20.18	1.13	10.40	11.53	

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) = 1 W

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.				
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	53	13.05	13.40	26.45	14.22	23.97	9.75	14.68	17.38	32.06	15.06	29.97	14.91
	54	12.96	13.04	26.00	14.15	23.97	9.82	14.58	16.91	31.49	14.98	29.97	14.99
	56	13.26	13.75	27.01	14.32	23.97	9.65	14.92	17.83	32.75	15.15	29.97	14.82
5550	53	12.62	12.43	25.05	13.99	23.97	9.98	14.20	16.12	30.32	14.82	29.97	15.15
	54	12.17	12.26	24.42	13.88	23.97	10.09	13.68	15.90	29.58	14.71	29.97	15.26
	56	12.42	12.69	25.11	14.00	23.97	9.97	13.97	16.46	30.43	14.83	29.97	15.14
5670	53	11.87	11.68	23.55	13.72	23.97	10.25	13.35	15.15	28.50	14.55	29.97	15.42
	54	11.50	11.46	22.96	13.61	23.97	10.36	12.93	14.87	27.80	14.44	29.97	15.53
	56	11.96	11.95	23.91	13.78	23.97	10.19	13.45	15.50	28.95	14.62	29.97	15.35
5710	53	11.51	11.55	23.06	13.63	23.97	10.34	12.95	14.98	27.93	14.46	29.97	15.51
	54	10.84	11.06	21.90	13.40	23.97	10.57	12.19	14.34	26.53	14.24	29.97	15.73
	56	11.56	11.82	23.38	13.69	23.97	10.28	13.01	15.33	28.34	14.52	29.97	15.45
5755	53	11.47	11.62	23.09	13.63	30.00	16.37	12.90	15.07	27.97	14.47	36.00	21.53
	54	11.34	11.30	22.64	13.55	30.00	16.45	12.75	14.66	27.41	14.38	36.00	21.62
	56	11.74	11.70	23.44	13.70	30.00	16.30	13.20	15.17	28.37	14.53	36.00	21.47
5795	53	12.05	12.41	24.46	13.88	30.00	16.12	13.55	16.10	29.65	14.72	36.00	21.28
	54	11.53	11.99	23.52	13.72	30.00	16.28	12.97	15.55	28.52	14.55	36.00	21.45
	56	12.30	12.97	25.27	14.03	30.00	15.97	13.84	16.82	30.65	14.86	36.00	21.14

			5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result			
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]		
5510	53	0.00	-10.97	1.96	20.17	0.51	11.16	11.67	-10.95	2.05	20.17	1.13	11.27	12.40		
	54	0.00	-11.00	1.96	20.17	0.51	11.13	11.64	-11.07	2.05	20.17	1.13	11.15	12.28		
	56	0.00	-10.90	1.96	20.17	0.51	11.23	11.74	-10.84	2.05	20.17	1.13	11.38	12.51		
5550	53	0.00	-11.11	1.96	20.16	0.51	11.01	11.52	-11.27	2.04	20.17	1.13	10.94	12.07		
	54	0.00	-11.27	1.96	20.16	0.51	10.85	11.36	-11.33	2.04	20.17	1.13	10.88	12.01		
	56	0.00	-11.18	1.96	20.16	0.51	10.94	11.45	-11.18	2.04	20.17	1.13	11.03	12.16		
5670	53	0.00	-11.36	1.94	20.16	0.51	10.75	11.26	-11.52	2.02	20.17	1.13	10.67	11.80		
	54	0.00	-11.50	1.94	20.16	0.51	10.61	11.12	-11.60	2.02	20.17	1.13	10.59	11.72		
	56	0.00	-11.33	1.94	20.16	0.51	10.78	11.29	-11.42	2.02	20.17	1.13	10.77	11.90		
5710	53	0.00	-11.49	1.94	20.16	0.51	10.61	11.12	-11.56	2.01	20.17	1.13	10.63	11.76		
	54	0.00	-11.75	1.94	20.16	0.51	10.35	10.86	-11.75	2.01	20.17	1.13	10.44	11.57		
	56	0.00	-11.47	1.94	20.16	0.51	10.63	11.14	-11.46	2.01	20.17	1.13	10.73	11.86		
5755	53	0.00	-11.54	1.98	20.16	0.51	10.60	11.11	-11.57	2.05	20.17	1.13	10.65	11.78		
	54	0.00	-11.59	1.98	20.16	0.51	10.55	11.06	-11.69	2.05	20.17	1.13	10.53	11.66		
	56	0.00	-11.44	1.98	20.16	0.51	10.70	11.21	-11.54	2.05	20.17	1.13	10.68	11.81		
5795	53	0.00	-11.32	1.97	20.16	0.51	10.81	11.32	-11.27	2.03	20.17	1.13	10.94	12.07		
	54	0.00	-11.51	1.97	20.16	0.51	10.62	11.13	-11.42	2.03	20.17	1.13	10.79	11.92		
	56	0.00	-11.23	1.97	20.16	0.51	10.90	11.41	-11.08	2.03	20.17	1.13	11.13	12.26		

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) = 1 W

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	61	12.51	11.28	23.78	13.76	23.97	10.21	16.22	14.63	30.85	14.89	29.97	15.08
	62	12.59	11.33	23.92	13.79	23.97	10.18	16.34	14.70	31.03	14.92	29.97	15.05
5230	61	12.24	10.96	23.20	13.66	23.97	10.31	15.88	14.21	30.10	14.79	29.97	15.18
	62	12.36	11.19	23.54	13.72	23.97	10.25	16.03	14.51	30.54	14.85	29.97	15.12
5270	61	12.88	11.64	24.52	13.89	23.97	10.08	16.70	15.10	31.80	15.02	29.97	14.95
	62	13.18	11.86	25.03	13.99	23.97	9.98	17.09	15.38	32.47	15.12	29.97	14.85
5310	61	13.70	11.84	25.54	14.07	23.97	9.90	17.77	15.36	33.13	15.20	29.97	14.77
	62	13.60	11.84	25.44	14.06	23.97	9.91	17.64	15.36	33.01	15.19	29.97	14.78

			5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result			
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]		
5190	61	0.00	-11.11	1.91	20.17	1.13	10.97	12.10	-11.61	1.96	20.18	1.13	10.52	11.65		
	62	0.00	-11.08	1.91	20.17	1.13	11.00	12.13	-11.59	1.96	20.18	1.13	10.54	11.67		
5230	61	0.00	-11.20	1.91	20.17	1.13	10.88	12.01	-11.74	1.96	20.18	1.13	10.40	11.53		
	62	0.00	-11.16	1.91	20.17	1.13	10.92	12.05	-11.65	1.96	20.18	1.13	10.49	11.62		
5270	61	0.00	-10.99	1.92	20.17	1.13	11.10	12.23	-11.49	1.98	20.18	1.13	10.66	11.79		
	62	0.00	-10.89	1.92	20.17	1.13	11.20	12.33	-11.41	1.98	20.18	1.13	10.74	11.87		
5310	61	0.00	-10.72	1.92	20.17	1.13	11.37	12.50	-11.42	1.98	20.18	1.13	10.73	11.86		
	62	0.00	-10.75	1.92	20.17	1.13	11.34	12.47	-11.42	1.98	20.18	1.13	10.73	11.86		

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU	Conducted power							e.i.r.p.					
Frequency	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin	
[MHz]		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	
5510	61	12.72	12.68	25.41	14.05	23.97	9.92	16.51	16.45	32.96	15.18	29.97	14.79	
	62	12.70	12.92	25.61	14.08	23.97	9.89	16.47	16.76	33.22	15.21	29.97	14.76	
5550	61	12.08	12.20	24.28	13.85	23.97	10.12	15.67	15.83	31.50	14.98	29.97	14.99	
	62	12.05	12.34	24.40	13.87	23.97	10.10	15.64	16.01	31.65	15.00	29.97	14.97	
5670	61	11.45	11.31	22.75	13.57	23.97	10.40	14.85	14.67	29.51	14.70	29.97	15.27	
	62	11.55	11.62	23.17	13.65	23.97	10.32	14.98	15.08	30.06	14.78	29.97	15.19	
5710	61	11.07	11.11	22.18	13.46	23.97	10.51	14.36	14.41	28.77	14.59	29.97	15.38	
	62	11.33	11.31	22.64	13.55	23.97	10.42	14.69	14.68	29.37	14.68	29.97	15.29	
5755	61	12.12	12.65	24.77	13.94	30.00	16.06	15.73	16.41	32.13	15.07	36.00	20.93	
	62	12.21	12.85	25.06	13.99	30.00	16.01	15.83	16.67	32.51	15.12	36.00	20.88	
5795	61	12.44	13.55	25.99	14.15	30.00	15.85	16.14	17.57	33.71	15.28	36.00	20.72	
	62	12.79	13.61	26.40	14.22	30.00	15.78	16.60	17.65	34.25	15.35	36.00	20.65	

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5510	61	0.00	-11.08	1.96	20.17	1.13	11.05	12.18	-11.19	2.05	20.17	1.13	11.03	12.16
	62	0.00	-11.09	1.96	20.17	1.13	11.04	12.17	-11.11	2.05	20.17	1.13	11.11	12.24
5550	61	0.00	-11.30	1.96	20.16	1.13	10.82	11.95	-11.35	2.04	20.17	1.13	10.86	11.99
	62	0.00	-11.31	1.96	20.16	1.13	10.81	11.94	-11.30	2.04	20.17	1.13	10.91	12.04
5670	61	0.00	-11.52	1.94	20.16	1.13	10.59	11.72	-11.66	2.02	20.17	1.13	10.53	11.66
	62	0.00	-11.48	1.94	20.16	1.13	10.63	11.76	-11.54	2.02	20.17	1.13	10.65	11.78
5710	61	0.00	-11.66	1.94	20.16	1.13	10.44	11.57	-11.73	2.01	20.17	1.13	10.46	11.59
	62	0.00	-11.56	1.94	20.16	1.13	10.54	11.67	-11.65	2.01	20.17	1.13	10.54	11.67
5755	61	0.00	-11.30	1.98	20.16	1.13	10.84	11.97	-11.20	2.05	20.17	1.13	11.02	12.15
	62	0.00	-11.27	1.98	20.16	1.13	10.87	12.00	-11.13	2.05	20.17	1.13	11.09	12.22
5795	61	0.00	-11.18	1.97	20.16	1.13	10.95	12.08	-10.89	2.03	20.17	1.13	11.32	12.45
	62	0.00	-11.06	1.97	20.16	1.13	11.07	12.20	-10.87	2.03	20.17	1.13	11.34	12.47

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.				
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	61	13.19	11.84	25.02	13.98	23.97	9.99	14.83	15.35	30.18	14.80	29.97	15.17
	62	12.86	11.97	24.83	13.95	23.97	10.02	14.46	15.53	29.99	14.77	29.97	15.20
5230	61	12.33	11.37	23.70	13.75	23.97	10.22	13.87	14.75	28.61	14.57	29.97	15.40
	62	12.44	11.47	23.92	13.79	23.97	10.18	13.99	14.88	28.88	14.61	29.97	15.36
5270	61	11.58	10.79	22.37	13.50	23.97	10.47	13.03	14.00	27.02	14.32	29.97	15.65
	62	11.72	10.82	22.53	13.53	23.97	10.44	13.18	14.03	27.21	14.35	29.97	15.62
5310	61	12.64	10.83	23.46	13.70	23.97	10.27	14.21	14.04	28.25	14.51	29.97	15.46
	62	12.49	10.60	23.09	13.64	23.97	10.33	14.05	13.75	27.80	14.44	29.97	15.53

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5190	61	0.00	-10.88	1.91	20.17	0.51	11.20	11.71	-11.40	1.96	20.18	1.13	10.73	11.86
	62	0.00	-10.99	1.91	20.17	0.51	11.09	11.60	-11.35	1.96	20.18	1.13	10.78	11.91
5230	61	0.00	-11.17	1.91	20.17	0.51	10.91	11.42	-11.58	1.96	20.18	1.13	10.56	11.69
	62	0.00	-11.13	1.91	20.17	0.51	10.95	11.46	-11.54	1.96	20.18	1.13	10.60	11.73
5270	61	0.00	-11.45	1.92	20.17	0.51	10.64	11.15	-11.82	1.98	20.18	1.13	10.33	11.46
	62	0.00	-11.40	1.92	20.17	0.51	10.69	11.20	-11.81	1.98	20.18	1.13	10.34	11.47
5310	61	0.00	-11.07	1.92	20.17	0.51	11.02	11.53	-11.81	1.98	20.18	1.13	10.34	11.47
	62	0.00	-11.12	1.92	20.17	0.51	10.97	11.48	-11.90	1.98	20.18	1.13	10.25	11.38

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 + [dBi] 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.				
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	61	12.67	13.01	25.67	14.09	23.97	9.88	14.24	16.87	31.12	14.93	29.97	15.04
	62	12.93	13.07	26.00	14.15	23.97	9.82	14.54	16.95	31.49	14.98	29.97	14.99
5550	61	12.17	12.32	24.48	13.89	23.97	10.08	13.68	15.97	29.66	14.72	29.97	15.25
	62	12.05	12.57	24.63	13.91	23.97	10.06	13.56	16.31	29.87	14.75	29.97	15.22
5670	61	11.58	11.65	23.23	13.66	23.97	10.31	13.02	15.11	28.13	14.49	29.97	15.48
	62	11.66	11.87	23.52	13.72	23.97	10.25	13.11	15.39	28.50	14.55	29.97	15.42
5710	61	11.12	11.29	22.41	13.50	23.97	10.47	12.51	14.64	27.15	14.34	29.97	15.63
	62	11.17	11.52	22.70	13.56	23.97	10.41	12.56	14.95	27.51	14.40	29.97	15.57
5755	61	11.11	11.35	22.46	13.51	30.00	16.49	12.49	14.73	27.22	14.35	36.00	21.65
	62	11.47	11.59	23.06	13.63	30.00	16.37	12.90	15.03	27.93	14.46	36.00	21.54
5795	61	11.94	12.38	24.32	13.86	30.00	16.14	13.43	16.06	29.49	14.70	36.00	21.30
	62	11.91	12.58	24.50	13.89	30.00	16.11	13.40	16.32	29.72	14.73	36.00	21.27

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5510	61	0.00	-11.10	1.96	20.17	0.51	11.03	11.54	-11.08	2.05	20.17	1.13	11.14	12.27
	62	0.00	-11.01	1.96	20.17	0.51	11.12	11.63	-11.06	2.05	20.17	1.13	11.16	12.29
5550	61	0.00	-11.27	1.96	20.16	0.51	10.85	11.36	-11.31	2.04	20.17	1.13	10.90	12.03
	62	0.00	-11.31	1.96	20.16	0.51	10.81	11.32	-11.22	2.04	20.17	1.13	10.99	12.12
5670	61	0.00	-11.47	1.94	20.16	0.51	10.64	11.15	-11.53	2.02	20.17	1.13	10.66	11.79
	62	0.00	-11.44	1.94	20.16	0.51	10.67	11.18	-11.45	2.02	20.17	1.13	10.74	11.87
5710	61	0.00	-11.64	1.94	20.16	0.51	10.46	10.97	-11.66	2.01	20.17	1.13	10.53	11.66
	62	0.00	-11.62	1.94	20.16	0.51	10.48	10.99	-11.57	2.01	20.17	1.13	10.62	11.75
5755	61	0.00	-11.68	1.98	20.16	0.51	10.46	10.97	-11.67	2.05	20.17	1.13	10.55	11.68
	62	0.00	-11.54	1.98	20.16	0.51	10.60	11.11	-11.58	2.05	20.17	1.13	10.64	11.77
5795	61	0.00	-11.36	1.97	20.16	0.51	10.77	11.28	-11.28	2.03	20.17	1.13	10.93	12.06
	62	0.00	-11.37	1.97	20.16	0.51	10.76	11.27	-11.21	2.03	20.17	1.13	11.00	12.13

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) = 1 W

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 484-tone RU (CDD)

[High Power mode]

11ax-40 (OFDMA)(CDD) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	65	13.37	11.73	25.10	14.00	23.97	9.97		17.34	15.21	32.56	15.13	29.97	14.84
5230	65	12.59	11.37	23.96	13.79	23.97	10.18		16.33	14.75	31.07	14.92	29.97	15.05
5270	65	11.45	10.62	22.07	13.44	23.97	10.53		14.85	13.77	28.63	14.57	29.97	15.40
5310	65	12.52	10.78	23.30	13.67	23.97	10.30		16.24	13.98	30.22	14.80	29.97	15.17
5510	65	12.44	13.07	25.50	14.07	23.97	9.90		16.13	16.95	33.08	15.20	29.97	14.77
5550	65	12.28	12.54	24.82	13.95	23.97	10.02		15.93	16.27	32.20	15.08	29.97	14.89
5670	65	11.66	11.76	23.42	13.70	23.97	10.27		15.12	15.25	30.37	14.83	29.97	15.14
5710	65	11.25	11.37	22.61	13.54	23.97	10.43		14.59	14.74	29.34	14.67	29.97	15.30
5755	65	11.71	11.62	23.33	13.68	30.00	16.32		15.19	15.07	30.26	14.81	36.00	21.19
5795	65	12.08	12.38	24.46	13.88	30.00	16.12		15.67	16.06	31.73	15.01	36.00	20.99

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
			[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	65	0.00	-10.82	1.91	20.17	1.13	11.26	12.39	-11.44	1.96	20.18	1.13	10.69	11.82
5230	65	0.00	-11.08	1.91	20.17	1.13	11.00	12.13	-11.58	1.96	20.18	1.13	10.56	11.69
5270	65	0.00	-11.50	1.92	20.17	1.13	10.59	11.72	-11.89	1.98	20.18	1.13	10.26	11.39
5310	65	0.00	-11.11	1.92	20.17	1.13	10.98	12.11	-11.83	1.98	20.18	1.13	10.32	11.45
5510	65	0.00	-11.18	1.96	20.17	1.13	10.95	12.08	-11.06	2.05	20.17	1.13	11.16	12.29
5550	65	0.00	-11.23	1.96	20.16	1.13	10.89	12.02	-11.23	2.04	20.17	1.13	10.98	12.11
5670	65	0.00	-11.44	1.94	20.16	1.13	10.67	11.80	-11.49	2.02	20.17	1.13	10.70	11.83
5710	65	0.00	-11.59	1.94	20.16	1.13	10.51	11.64	-11.63	2.01	20.17	1.13	10.56	11.69
5755	65	0.00	-11.45	1.98	20.16	1.13	10.69	11.82	-11.57	2.05	20.17	1.13	10.65	11.78
5795	65	0.00	-11.31	1.97	20.16	1.13	10.82	11.95	-11.28	2.03	20.17	1.13	10.93	12.06

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (43.267 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 484-tone RU (SDM)

[High Power mode]

11ax-40 (OFDMA)(SDM) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	65	13.16	11.86	25.02	13.98	23.97	9.99		14.80	15.39	30.19	14.80	29.97	15.17
5230	65	12.88	11.88	24.76	13.94	23.97	10.03		14.49	15.40	29.89	14.76	29.97	15.21
5270	65	11.64	11.04	22.68	13.56	23.97	10.41		13.09	14.32	27.41	14.38	29.97	15.59
5310	65	12.81	10.68	23.49	13.71	23.97	10.26		14.41	13.85	28.26	14.51	29.97	15.46
5510	65	13.08	13.16	26.24	14.19	23.97	9.78		14.71	17.07	31.78	15.02	29.97	14.95
5550	65	12.54	12.63	25.17	14.01	23.97	9.96		14.10	16.38	30.48	14.84	29.97	15.13
5670	65	11.74	11.92	23.66	13.74	23.97	10.23		13.20	15.46	28.67	14.57	29.97	15.40
5710	65	11.25	11.39	22.64	13.55	23.97	10.42		12.65	14.78	27.43	14.38	29.97	15.59
5755	65	11.55	11.78	23.33	13.68	30.00	16.32		12.99	15.28	28.27	14.51	36.00	21.49
5795	65	12.22	12.64	24.86	13.95	30.00	16.05		13.74	16.40	30.14	14.79	36.00	21.21

			5G_CH0						5G_CH1					
Tested	RU	Duty	Power	Cable	Atten.	Antenna	Result		Power	Cable	Atten.	Antenna	Result	
Frequency	Index	Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.
		*1)	Reading				Power		Reading				Power	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	65	0.00	-10.89	1.91	20.17	0.51	11.19	11.70	-11.39	1.96	20.18	1.13	10.74	11.87
5230	65	0.00	-10.98	1.91	20.17	0.51	11.10	11.61	-11.39	1.96	20.18	1.13	10.75	11.88
5270	65	0.00	-11.43	1.92	20.17	0.51	10.66	11.17	-11.72	1.98	20.18	1.13	10.43	11.56
5310	65	0.00	-11.01	1.92	20.17	0.51	11.08	11.59	-11.87	1.98	20.18	1.13	10.28	11.41
5510	65	0.00	-10.96	1.96	20.17	0.51	11.17	11.68	-11.03	2.05	20.17	1.13	11.19	12.32
5550	65	0.00	-11.14	1.96	20.16	0.51	10.98	11.49	-11.20	2.04	20.17	1.13	11.01	12.14
5670	65	0.00	-11.41	1.94	20.16	0.51	10.70	11.21	-11.43	2.02	20.17	1.13	10.76	11.89
5710	65	0.00	-11.59	1.94	20.16	0.51	10.51	11.02	-11.62	2.01	20.17	1.13	10.57	11.70
5755	65	0.00	-11.51	1.98	20.16	0.51	10.63	11.14	-11.51	2.05	20.17	1.13	10.71	11.84
5795	65	0.00	-11.26	1.97	20.16	0.51	10.87	11.38	-11.19	2.03	20.17	1.13	11.02	12.15

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (43.267 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-80 (CDD)

[High Power mode]

11ac-80 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	13.98	13.20	27.19	14.34	23.97	9.63	18.14	17.13	35.27	15.47	29.97	14.50
5290	13.68	13.87	27.56	14.40	23.97	9.57	17.75	18.00	35.74	15.53	29.97	14.44
5530	12.43	12.84	25.27	14.03	23.97	9.94	16.12	16.66	32.78	15.16	29.97	14.81
5610	12.77	13.49	26.26	14.19	23.97	9.78	16.56	17.50	34.06	15.32	29.97	14.65
5690	12.59	11.75	24.34	13.86	23.97	10.11	16.33	15.25	31.58	14.99	29.97	14.98
5775	12.38	12.12	24.50	13.89	30.00	16.11	16.06	15.72	31.78	15.02	36.00	20.98

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	0.00	-10.62	1.91	20.17	1.13	11.46	12.59	-10.92	1.95	20.18	1.13	11.21	12.34
5290	0.00	-10.72	1.91	20.17	1.13	11.36	12.49	-10.72	1.96	20.18	1.13	11.42	12.55
5530	0.00	-11.18	1.96	20.17	1.13	10.94	12.07	-11.13	2.04	20.17	1.13	11.09	12.22
5610	0.00	-11.05	1.95	20.17	1.13	11.06	12.19	-10.90	2.03	20.17	1.13	11.30	12.43
5690	0.00	-11.10	1.93	20.17	1.13	11.00	12.13	-11.48	2.01	20.17	1.13	10.70	11.83
5775	0.00	-11.20	1.96	20.17	1.13	10.93	12.06	-11.37	2.03	20.17	1.13	10.83	11.96

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (88.351 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-80 (SDM)

[High Power mode]

11ac-80 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5210	14.08	13.20	27.28	14.36	23.97	9.61	15.84	17.13	32.96	15.18	29.97	14.79
5290	13.90	14.10	28.00	14.47	23.97	9.50	15.64	18.29	33.93	15.31	29.97	14.66
5530	12.40	12.70	25.09	14.00	23.97	9.97	13.94	16.47	30.41	14.83	29.97	15.14
5610	12.62	13.27	25.90	14.13	23.97	9.84	14.20	17.22	31.41	14.97	29.97	15.00
5690	12.13	11.75	23.89	13.78	23.97	10.19	13.65	15.25	28.89	14.61	29.97	15.36
5775	12.13	12.23	24.35	13.87	30.00	16.13	13.64	15.86	29.50	14.70	36.00	21.30

5G_CH0								5G_CH1					
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	Result e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	Result e.i.r.p. [dBm]
5210	0.00	-10.59	1.91	20.17	0.51	11.49	12.00	-10.92	1.95	20.18	1.13	11.21	12.34
5290	0.00	-10.65	1.91	20.17	0.51	11.43	11.94	-10.65	1.96	20.18	1.13	11.49	12.62
5530	0.00	-11.19	1.96	20.17	0.51	10.93	11.44	-11.18	2.04	20.17	1.13	11.04	12.17
5610	0.00	-11.10	1.95	20.17	0.51	11.01	11.52	-10.97	2.03	20.17	1.13	11.23	12.36
5690	0.00	-11.26	1.93	20.17	0.51	10.84	11.35	-11.48	2.01	20.17	1.13	10.70	11.83
5775	0.00	-11.29	1.96	20.17	0.51	10.84	11.35	-11.33	2.03	20.17	1.13	10.87	12.00

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (88.351 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-80 (OFDM) (CDD)

[High Power mode]

11ax-80 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	5G_CH0	Antenna	Sum	Result	Limit	Margin	5G_CH0	Antenna	Sum	Result	Limit	Margin
[MHz]	[mW]	5G_CH1	[mW]	[dBm]	[dBm]	[dB]	[mW]	5G_CH1	[mW]	[dBm]	[dBm]	[dB]
5210	12.61	10.86	23.46	13.70	23.97	10.27	16.35	14.08	30.44	14.83	29.97	15.14
5290	12.11	10.99	23.10	13.64	23.97	10.33	15.71	14.26	29.97	14.77	29.97	15.20
5530	12.69	12.90	25.59	14.08	23.97	9.89	16.46	16.74	33.19	15.21	29.97	14.76
5610	13.37	13.77	27.14	14.34	23.97	9.63	17.35	17.86	35.21	15.47	29.97	14.50
5690	12.97	12.17	25.14	14.00	23.97	9.97	16.83	15.78	32.61	15.13	29.97	14.84
5775	12.38	12.45	24.84	13.95	30.00	16.05	16.06	16.16	32.22	15.08	36.00	20.92

5G_CH0							5G_CH1						
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]
5210	0.00	-11.07	1.91	20.17	1.13	11.01	12.14	-11.77	1.95	20.18	1.13	10.36	11.49
5290	0.00	-11.25	1.91	20.17	1.13	10.83	11.96	-11.73	1.96	20.18	1.13	10.41	11.54
5530	0.00	-11.09	1.96	20.17	1.13	11.03	12.16	-11.11	2.04	20.17	1.13	11.11	12.24
5610	0.00	-10.85	1.95	20.17	1.13	11.26	12.39	-10.81	2.03	20.17	1.13	11.39	12.52
5690	0.00	-10.97	1.93	20.17	1.13	11.13	12.26	-11.33	2.01	20.17	1.13	10.85	11.98
5775	0.00	-11.20	1.96	20.17	1.13	10.93	12.06	-11.25	2.03	20.17	1.13	10.95	12.08

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (85.949 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-80 (OFDM) (SDM)

[High Power mode]

11ax-80 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5210	12.32	11.24	23.56	13.72	23.97	10.25	13.86	14.58	28.43	14.54	29.97	15.43
5290	12.36	11.30	23.67	13.74	23.97	10.23	13.90	14.66	28.57	14.56	29.97	15.41
5530	12.75	13.33	26.07	14.16	23.97	9.81	14.33	17.29	31.62	15.00	29.97	14.97
5610	12.92	14.06	26.98	14.31	23.97	9.66	14.53	18.24	32.76	15.15	29.97	14.82
5690	12.79	12.34	25.13	14.00	23.97	9.97	14.39	16.00	30.39	14.83	29.97	15.14
5775	12.47	12.57	25.04	13.99	30.00	16.01	14.02	16.31	30.33	14.82	36.00	21.18

		5G_CH0						5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5210	0.00	-11.17	1.91	20.17	0.51	10.91	11.42	-11.62	1.95	20.18	1.13	10.51	11.64
5290	0.00	-11.16	1.91	20.17	0.51	10.92	11.43	-11.61	1.96	20.18	1.13	10.53	11.66
5530	0.00	-11.07	1.96	20.17	0.51	11.05	11.56	-10.97	2.04	20.17	1.13	11.25	12.38
5610	0.00	-11.00	1.95	20.17	0.51	11.11	11.62	-10.72	2.03	20.17	1.13	11.48	12.61
5690	0.00	-11.03	1.93	20.17	0.51	11.07	11.58	-11.27	2.01	20.17	1.13	10.91	12.04
5775	0.00	-11.17	1.96	20.17	0.51	10.96	11.47	-11.21	2.03	20.17	1.13	10.99	12.12

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (85.949 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 26-tone RU (CDD)

[High Power mode]

11ax-80 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	0	2.65	2.40	5.05	7.03	23.97	16.94	3.44	3.11	6.55	8.16	29.97	21.81
	18	2.47	2.33	4.80	6.81	23.97	17.16	3.21	3.02	6.23	7.94	29.97	22.03
	36	2.51	2.42	4.93	6.93	23.97	17.04	3.26	3.14	6.40	8.06	29.97	21.91
5290	0	10.27	9.87	20.14	13.04	23.97	10.93	13.33	12.80	26.13	14.17	29.97	15.80
	18	9.74	9.38	19.12	12.82	23.97	11.15	12.64	12.17	24.81	13.95	29.97	16.02
	36	9.99	9.96	19.95	13.00	23.97	10.97	12.96	12.92	25.88	14.13	29.97	15.84
5530	0	10.82	10.83	21.66	13.36	23.97	10.61	14.04	14.05	28.09	14.49	29.97	15.48
	18	10.10	10.54	20.64	13.15	23.97	10.82	13.10	13.67	26.77	14.28	29.97	15.69
	36	10.22	11.21	21.43	13.31	23.97	10.66	13.26	14.55	27.80	14.44	29.97	15.53
5610	0	10.22	10.27	20.48	13.11	23.97	10.86	13.26	13.32	26.57	14.24	29.97	15.73
	18	9.69	10.29	19.98	13.01	23.97	10.96	12.57	13.35	25.92	14.14	29.97	15.83
	36	10.12	11.05	21.18	13.26	23.97	10.71	13.13	14.33	27.47	14.39	29.97	15.58
5690	0	10.36	9.31	19.67	12.94	23.97	11.03	13.44	12.08	25.52	14.07	29.97	15.90
	18	9.87	9.35	19.22	12.84	23.97	11.13	12.80	12.13	24.94	13.97	29.97	16.00
	36	10.22	10.16	20.38	13.09	23.97	10.88	13.25	13.18	26.44	14.22	29.97	15.75
5775	0	9.96	9.36	19.32	12.86	30.00	17.14	12.92	12.15	25.07	13.99	29.97	15.98
	18	9.64	9.65	19.29	12.85	30.00	17.15	12.51	12.52	25.03	13.98	29.97	15.99
	36	10.03	10.51	20.54	13.13	30.00	16.87	13.01	13.63	26.64	14.26	29.97	15.71

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter	Cable	Atten.	Directional	Result		Power Meter	Cable	Atten.	Directional	Result	
			Reading	Loss	Loss	Gain	Cond. Power	e.i.r.p.	Reading	Loss	Loss	Gain	Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	0	0.00	-17.84	1.91	20.17	1.13	4.24	5.37	-18.34	1.96	20.18	1.13	3.79	4.92
	18	0.00	-18.15	1.91	20.17	1.13	3.93	5.06	-18.46	1.96	20.18	1.13	3.67	4.80
	36	0.00	-18.08	1.91	20.17	1.13	4.00	5.13	-18.30	1.96	20.18	1.13	3.83	4.96
5290	0	0.00	-11.97	1.92	20.17	1.13	10.12	11.25	-12.21	1.98	20.18	1.13	9.94	11.07
	18	0.00	-12.20	1.92	20.17	1.13	9.89	11.02	-12.43	1.98	20.18	1.13	9.72	10.85
	36	0.00	-12.09	1.92	20.17	1.13	10.00	11.13	-12.17	1.98	20.18	1.13	9.98	11.11
5530	0	0.00	-11.78	1.96	20.17	1.13	10.34	11.47	-11.87	2.04	20.17	1.13	10.35	11.48
	18	0.00	-12.08	1.96	20.17	1.13	10.04	11.17	-11.99	2.04	20.17	1.13	10.23	11.36
	36	0.00	-12.03	1.96	20.17	1.13	10.09	11.22	-11.72	2.04	20.17	1.13	10.50	11.63
5610	0	0.00	-12.02	1.95	20.16	1.13	10.09	11.22	-12.09	2.03	20.17	1.13	10.11	11.24
	18	0.00	-12.25	1.95	20.16	1.13	9.86	10.99	-12.08	2.03	20.17	1.13	10.12	11.25
	36	0.00	-12.06	1.95	20.16	1.13	10.05	11.18	-11.77	2.03	20.17	1.13	10.43	11.56
5690	0	0.00	-11.95	1.94	20.16	1.13	10.15	11.28	-12.50	2.02	20.17	1.13	9.69	10.82
	18	0.00	-12.16	1.94	20.16	1.13	9.94	11.07	-12.48	2.02	20.17	1.13	9.71	10.84
	36	0.00	-12.01	1.94	20.16	1.13	10.09	11.22	-12.12	2.02	20.17	1.13	10.07	11.20
5775	0	0.00	-12.15	1.97	20.16	1.13	9.98	11.11	-12.50	2.04	20.17	1.13	9.71	10.84
	18	0.00	-12.29	1.97	20.16	1.13	9.84	10.97	-12.37	2.04	20.17	1.13	9.84	10.97
	36	0.00	-12.12	1.97	20.16	1.13	10.01	11.14	-12.00	2.04	20.17	1.13	10.21	11.34

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (78.398 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 26-tone RU (SDM)

[High Power mode]

11ax-80 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	0	2.71	2.40	5.11	7.09	23.97	16.88	3.52	3.11	6.63	8.22	29.97	21.75
	18	2.50	2.33	4.83	6.84	23.97	17.13	3.24	3.02	6.27	7.97	29.97	22.00
	36	2.58	2.39	4.97	6.96	23.97	17.01	3.34	3.10	6.44	8.09	29.97	21.88
5290	0	10.39	10.03	20.42	13.10	23.97	10.87	13.48	13.01	26.49	14.23	29.97	15.74
	18	10.25	9.71	19.96	13.00	23.97	10.97	13.30	12.60	25.89	14.13	29.97	15.84
	36	10.44	9.64	20.08	13.03	23.97	10.94	13.54	12.51	26.05	14.16	29.97	15.81
5530	0	10.70	10.98	21.69	13.36	23.97	10.61	13.88	14.25	28.13	14.49	29.97	15.48
	18	10.27	10.47	20.73	13.17	23.97	10.80	13.32	13.58	26.89	14.30	29.97	15.67
	36	10.48	10.69	21.17	13.26	23.97	10.71	13.60	13.86	27.46	14.39	29.97	15.58
5610	0	10.34	10.75	21.09	13.24	23.97	10.73	13.41	13.94	27.35	14.37	29.97	15.60
	18	9.92	10.80	20.72	13.16	23.97	10.81	12.86	14.01	26.87	14.29	29.97	15.68
	36	10.31	10.63	20.94	13.21	23.97	10.76	13.38	13.78	27.16	14.34	29.97	15.63
5690	0	10.41	10.00	20.41	13.10	23.97	10.87	13.50	12.97	26.47	14.23	29.97	15.74
	18	10.36	9.73	20.09	13.03	23.97	10.94	13.44	12.62	26.06	14.16	29.97	15.81
	36	10.29	9.86	20.15	13.04	23.97	10.93	13.35	12.79	26.14	14.17	29.97	15.80
5775	0	9.78	9.58	19.36	12.87	30.00	17.13	12.69	12.43	25.11	14.00	29.97	15.97
	18	9.67	9.71	19.38	12.87	30.00	17.13	12.54	12.60	25.14	14.00	29.97	15.97
	36	10.70	10.43	21.13	13.25	30.00	16.75	13.88	13.53	27.41	14.38	29.97	15.59

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	0	0.00	-17.75	1.91	20.17	1.13	4.33	5.46	-18.33	1.96	20.18	1.13	3.80	4.93	
	18	0.00	-18.10	1.91	20.17	1.13	3.98	5.11	-18.46	1.96	20.18	1.13	3.67	4.80	
	36	0.00	-17.97	1.91	20.17	1.13	4.11	5.24	-18.35	1.96	20.18	1.13	3.78	4.91	
5290	0	0.00	-11.92	1.92	20.17	1.13	10.17	11.30	-12.14	1.98	20.18	1.13	10.01	11.14	
	18	0.00	-11.98	1.92	20.17	1.13	10.11	11.24	-12.28	1.98	20.18	1.13	9.87	11.00	
	36	0.00	-11.90	1.92	20.17	1.13	10.19	11.32	-12.31	1.98	20.18	1.13	9.84	10.97	
5530	0	0.00	-11.83	1.96	20.17	1.13	10.29	11.42	-11.81	2.04	20.17	1.13	10.41	11.54	
	18	0.00	-12.01	1.96	20.17	1.13	10.11	11.24	-12.02	2.04	20.17	1.13	10.20	11.33	
	36	0.00	-11.92	1.96	20.17	1.13	10.20	11.33	-11.93	2.04	20.17	1.13	10.29	11.42	
5610	0	0.00	-11.97	1.95	20.16	1.13	10.14	11.27	-11.89	2.03	20.17	1.13	10.31	11.44	
	18	0.00	-12.15	1.95	20.16	1.13	9.96	11.09	-11.87	2.03	20.17	1.13	10.33	11.46	
	36	0.00	-11.98	1.95	20.16	1.13	10.13	11.26	-11.94	2.03	20.17	1.13	10.26	11.39	
5690	0	0.00	-11.93	1.94	20.16	1.13	10.17	11.30	-12.19	2.02	20.17	1.13	10.00	11.13	
	18	0.00	-11.95	1.94	20.16	1.13	10.15	11.28	-12.31	2.02	20.17	1.13	9.88	11.01	
	36	0.00	-11.98	1.94	20.16	1.13	10.12	11.25	-12.25	2.02	20.17	1.13	9.94	11.07	
5775	0	0.00	-12.23	1.97	20.16	1.13	9.90	11.03	-12.40	2.04	20.17	1.13	9.81	10.94	
	18	0.00	-12.28	1.97	20.16	1.13	9.85	10.98	-12.34	2.04	20.17	1.13	9.87	11.00	
	36	0.00	-11.84	1.97	20.16	1.13	10.29	11.42	-12.03	2.04	20.17	1.13	10.18	11.31	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (78.398 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 52-tone RU (CDD)

[High Power mode]

11ax-80 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	37	5.55	5.01	10.55	10.23	23.97	13.74	7.20	6.49	13.69	11.36	29.97	18.61
	44	5.26	4.79	10.05	10.02	23.97	13.95	6.82	6.22	13.04	11.15	29.97	18.82
	52	5.27	5.01	10.28	10.12	23.97	13.85	6.84	6.49	13.33	11.25	29.97	18.72
5290	37	12.55	11.62	24.17	13.83	23.97	10.14	16.28	15.07	31.36	14.96	29.97	15.01
	44	12.70	11.23	23.92	13.79	23.97	10.18	16.47	14.56	31.03	14.92	29.97	15.05
	52	13.14	12.03	25.17	14.01	23.97	9.96	17.05	15.60	32.65	15.14	29.97	14.83
5530	37	11.98	11.99	23.97	13.80	23.97	10.17	15.54	15.55	31.09	14.93	29.97	15.04
	44	11.44	12.13	23.57	13.72	23.97	10.25	14.84	15.73	30.57	14.85	29.97	15.12
	52	11.68	12.61	24.29	13.85	23.97	10.12	15.15	16.36	31.51	14.98	29.97	14.99
5610	37	11.79	12.46	24.24	13.85	23.97	10.12	15.29	16.16	31.45	14.98	29.97	14.99
	44	11.36	12.72	24.08	13.82	23.97	10.15	14.74	16.50	31.23	14.95	29.97	15.02
	52	12.03	13.22	25.26	14.02	23.97	9.95	15.61	17.15	32.76	15.15	29.97	14.82
5690	37	12.34	10.35	22.69	13.56	23.97	10.41	16.01	13.43	29.44	14.69	29.97	15.28
	44	11.84	10.62	22.46	13.51	23.97	10.46	15.36	13.77	29.13	14.64	29.97	15.33
	52	12.29	11.24	23.53	13.72	23.97	10.25	15.94	14.59	30.52	14.85	29.97	15.12
5775	37	12.54	12.34	24.88	13.96	30.00	16.04	16.27	16.01	32.28	15.09	29.97	14.88
	44	12.80	12.84	25.64	14.09	30.00	15.91	16.61	16.65	33.26	15.22	29.97	14.75
	52	13.88	13.44	27.32	14.36	30.00	15.64	18.00	17.44	35.44	15.49	29.97	14.48

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	37	0.00	-14.64	1.91	20.17	1.13	7.44	8.57	-15.14	1.96	20.18	1.13	6.99	8.12	
	44	0.00	-14.87	1.91	20.17	1.13	7.21	8.34	-15.33	1.96	20.18	1.13	6.80	7.93	
	52	0.00	-14.86	1.91	20.17	1.13	7.22	8.35	-15.14	1.96	20.18	1.13	6.99	8.12	
5290	37	0.00	-11.10	1.92	20.17	1.13	10.99	12.12	-11.50	1.98	20.18	1.13	10.65	11.78	
	44	0.00	-11.05	1.92	20.17	1.13	11.04	12.17	-11.65	1.98	20.18	1.13	10.50	11.63	
	52	0.00	-10.90	1.92	20.17	1.13	11.19	12.32	-11.35	1.98	20.18	1.13	10.80	11.93	
5530	37	0.00	-11.34	1.96	20.17	1.13	10.78	11.91	-11.43	2.04	20.17	1.13	10.79	11.92	
	44	0.00	-11.54	1.96	20.17	1.13	10.58	11.71	-11.38	2.04	20.17	1.13	10.84	11.97	
	52	0.00	-11.45	1.96	20.17	1.13	10.67	11.80	-11.21	2.04	20.17	1.13	11.01	12.14	
5610	37	0.00	-11.40	1.95	20.16	1.13	10.71	11.84	-11.25	2.03	20.17	1.13	10.95	12.08	
	44	0.00	-11.56	1.95	20.16	1.13	10.55	11.68	-11.16	2.03	20.17	1.13	11.04	12.17	
	52	0.00	-11.31	1.95	20.16	1.13	10.80	11.93	-10.99	2.03	20.17	1.13	11.21	12.34	
5690	37	0.00	-11.19	1.94	20.16	1.13	10.91	12.04	-12.04	2.02	20.17	1.13	10.15	11.28	
	44	0.00	-11.37	1.94	20.16	1.13	10.73	11.86	-11.93	2.02	20.17	1.13	10.26	11.39	
	52	0.00	-11.21	1.94	20.16	1.13	10.89	12.02	-11.68	2.02	20.17	1.13	10.51	11.64	
5775	37	0.00	-11.15	1.97	20.16	1.13	10.98	12.11	-11.30	2.04	20.17	1.13	10.91	12.04	
	44	0.00	-11.06	1.97	20.16	1.13	11.07	12.20	-11.13	2.04	20.17	1.13	11.08	12.21	
	52	0.00	-10.71	1.97	20.16	1.13	11.42	12.55	-10.93	2.04	20.17	1.13	11.28	12.41	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (79.379 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 52-tone RU (SDM)

[High Power mode]

11ax-80 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5210	37	5.82	5.27	11.09	10.45	23.97	13.52		6.55	6.83	13.38	11.26	29.97	18.71	
	44	5.45	4.80	10.25	10.11	23.97	13.86		6.12	6.23	12.35	10.92	29.97	19.05	
	52	5.43	5.22	10.65	10.27	23.97	13.70		6.11	6.77	12.88	11.10	29.97	18.87	
5290	37	12.55	11.28	23.83	13.77	23.97	10.20		14.12	14.63	28.75	14.59	29.97	15.38	
	44	12.52	11.07	23.60	13.73	23.97	10.24		14.08	14.36	28.45	14.54	29.97	15.43	
	52	13.02	11.51	24.54	13.90	23.97	10.07		14.65	14.94	29.58	14.71	29.97	15.26	
5530	37	11.73	12.04	23.78	13.76	23.97	10.21		13.19	15.62	28.82	14.60	29.97	15.37	
	44	11.47	11.80	23.26	13.67	23.97	10.30		12.89	15.30	28.20	14.50	29.97	15.47	
	52	12.09	12.55	24.64	13.92	23.97	10.05		13.60	16.29	29.88	14.75	29.97	15.22	
5610	37	11.57	12.40	23.97	13.80	23.97	10.17		13.01	16.08	29.10	14.64	29.97	15.33	
	44	11.57	12.43	24.00	13.80	23.97	10.17		13.01	16.12	29.13	14.64	29.97	15.33	
	52	12.12	13.25	25.37	14.04	23.97	9.93		13.63	17.19	30.82	14.89	29.97	15.08	
5690	37	12.14	10.69	22.83	13.59	23.97	10.38		13.66	13.87	27.52	14.40	29.97	15.57	
	44	12.12	10.47	22.59	13.54	23.97	10.43		13.63	13.58	27.21	14.35	29.97	15.62	
	52	12.40	11.17	23.57	13.72	23.97	10.25		13.94	14.49	28.43	14.54	29.97	15.43	
5775	37	12.69	12.26	24.94	13.97	30.00	16.03		14.27	15.90	30.17	14.80	29.97	15.17	
	44	12.34	12.87	25.21	14.01	30.00	15.99		13.88	16.69	30.57	14.85	29.97	15.12	
	52	13.62	13.79	27.41	14.38	30.00	15.62		15.32	17.88	33.20	15.21	29.97	14.76	

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	37	0.00	-14.43	1.91	20.17	0.51	7.65	8.16	-14.92	1.96	20.18	1.13	7.21	8.34	
	44	0.00	-14.72	1.91	20.17	0.51	7.36	7.87	-15.32	1.96	20.18	1.13	6.81	7.94	
	52	0.00	-14.73	1.91	20.17	0.51	7.35	7.86	-14.96	1.96	20.18	1.13	7.17	8.30	
5290	37	0.00	-11.10	1.92	20.17	0.51	10.99	11.50	-11.63	1.98	20.18	1.13	10.52	11.65	
	44	0.00	-11.11	1.92	20.17	0.51	10.98	11.49	-11.71	1.98	20.18	1.13	10.44	11.57	
	52	0.00	-10.94	1.92	20.17	0.51	11.15	11.66	-11.54	1.98	20.18	1.13	10.61	11.74	
5530	37	0.00	-11.43	1.96	20.17	0.51	10.69	11.20	-11.41	2.04	20.17	1.13	10.81	11.94	
	44	0.00	-11.53	1.96	20.17	0.51	10.59	11.10	-11.50	2.04	20.17	1.13	10.72	11.85	
	52	0.00	-11.30	1.96	20.17	0.51	10.82	11.33	-11.23	2.04	20.17	1.13	10.99	12.12	
5610	37	0.00	-11.48	1.95	20.16	0.51	10.63	11.14	-11.27	2.03	20.17	1.13	10.93	12.06	
	44	0.00	-11.48	1.95	20.16	0.51	10.63	11.14	-11.26	2.03	20.17	1.13	10.94	12.07	
	52	0.00	-11.28	1.95	20.16	0.51	10.83	11.34	-10.98	2.03	20.17	1.13	11.22	12.35	
5690	37	0.00	-11.26	1.94	20.16	0.51	10.84	11.35	-11.90	2.02	20.17	1.13	10.29	11.42	
	44	0.00	-11.27	1.94	20.16	0.51	10.83	11.34	-11.99	2.02	20.17	1.13	10.20	11.33	
	52	0.00	-11.17	1.94	20.16	0.51	10.93	11.44	-11.71	2.02	20.17	1.13	10.48	11.61	
5775	37	0.00	-11.10	1.97	20.16	0.51	11.03	11.54	-11.33	2.04	20.17	1.13	10.88	12.01	
	44	0.00	-11.22	1.97	20.16	0.51	10.91	11.42	-11.12	2.04	20.17	1.13	11.09	12.22	
	52	0.00	-10.79	1.97	20.16	0.51	11.34	11.85	-10.82	2.04	20.17	1.13	11.39	12.52	

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (79.379 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 106-tone RU (CDD)

[High Power mode]

11ax-80 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	53	13.06	11.49	24.56	13.90	23.97	10.07	16.95	14.91	31.85	15.03	29.97	14.94
	56	12.50	11.03	23.53	13.72	23.97	10.25	16.22	14.30	30.52	14.85	29.97	15.12
	60	12.94	11.90	24.84	13.95	23.97	10.02	16.79	15.43	32.22	15.08	29.97	14.89
5290	53	12.84	11.78	24.63	13.91	23.97	10.06	16.66	15.28	31.94	15.04	29.97	14.93
	56	12.55	11.46	24.01	13.80	23.97	10.17	16.28	14.87	31.15	14.93	29.97	15.04
	60	13.11	11.78	24.90	13.96	23.97	10.01	17.01	15.28	32.29	15.09	29.97	14.88
5530	53	12.66	12.47	25.13	14.00	23.97	9.97	16.42	16.17	32.59	15.13	29.97	14.84
	56	12.15	12.16	24.30	13.86	23.97	10.11	15.75	15.77	31.52	14.99	29.97	14.98
	60	12.81	13.18	25.98	14.15	23.97	9.82	16.61	17.09	33.70	15.28	29.97	14.69
5610	53	12.31	13.10	25.42	14.05	23.97	9.92	15.97	17.00	32.97	15.18	29.97	14.79
	56	12.23	12.66	24.89	13.96	23.97	10.01	15.86	16.42	32.28	15.09	29.97	14.88
	60	12.54	13.63	26.17	14.18	23.97	9.79	16.27	17.68	33.95	15.31	29.97	14.66
5690	53	12.63	11.64	24.27	13.85	23.97	10.12	16.38	15.10	31.48	14.98	29.97	14.99
	56	12.37	11.14	23.51	13.71	23.97	10.26	16.05	14.45	30.50	14.84	29.97	15.13
	60	12.48	12.13	24.62	13.91	23.97	10.06	16.19	15.74	31.93	15.04	29.97	14.93
5775	53	11.92	12.34	24.26	13.85	30.00	16.15	15.46	16.01	31.48	14.98	29.97	14.99
	56	12.00	12.34	24.35	13.86	30.00	16.14	15.57	16.01	31.58	14.99	29.97	14.98
	60	12.74	13.17	25.91	14.13	30.00	15.87	16.53	17.08	33.61	15.26	29.97	14.71

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	53	0.00	-10.92	1.91	20.17	1.13	11.16	12.29	-11.53	1.96	20.18	1.13	10.60	11.73	
	56	0.00	-11.11	1.91	20.17	1.13	10.97	12.10	-11.71	1.96	20.18	1.13	10.42	11.55	
	60	0.00	-10.96	1.91	20.17	1.13	11.12	12.25	-11.38	1.96	20.18	1.13	10.75	11.88	
5290	53	0.00	-11.00	1.92	20.17	1.13	11.09	12.22	-11.44	1.98	20.18	1.13	10.71	11.84	
	56	0.00	-11.10	1.92	20.17	1.13	10.99	12.12	-11.56	1.98	20.18	1.13	10.59	11.72	
	60	0.00	-10.91	1.92	20.17	1.13	11.18	12.31	-11.44	1.98	20.18	1.13	10.71	11.84	
5530	53	0.00	-11.10	1.96	20.17	1.13	11.02	12.15	-11.26	2.04	20.17	1.13	10.96	12.09	
	56	0.00	-11.28	1.96	20.17	1.13	10.84	11.97	-11.37	2.04	20.17	1.13	10.85	11.98	
	60	0.00	-11.05	1.96	20.17	1.13	11.07	12.20	-11.02	2.04	20.17	1.13	11.20	12.33	
5610	53	0.00	-11.21	1.95	20.16	1.13	10.90	12.03	-11.03	2.03	20.17	1.13	11.17	12.30	
	56	0.00	-11.24	1.95	20.16	1.13	10.87	12.00	-11.18	2.03	20.17	1.13	11.02	12.15	
	60	0.00	-11.13	1.95	20.16	1.13	10.98	12.11	-10.86	2.03	20.17	1.13	11.34	12.47	
5690	53	0.00	-11.09	1.94	20.16	1.13	11.01	12.14	-11.53	2.02	20.17	1.13	10.66	11.79	
	56	0.00	-11.18	1.94	20.16	1.13	10.92	12.05	-11.72	2.02	20.17	1.13	10.47	11.60	
	60	0.00	-11.14	1.94	20.16	1.13	10.96	12.09	-11.35	2.02	20.17	1.13	10.84	11.97	
5775	53	0.00	-11.37	1.97	20.16	1.13	10.76	11.89	-11.30	2.04	20.17	1.13	10.91	12.04	
	56	0.00	-11.34	1.97	20.16	1.13	10.79	11.92	-11.30	2.04	20.17	1.13	10.91	12.04	
	60	0.00	-11.08	1.97	20.16	1.13	11.05	12.18	-11.02	2.04	20.17	1.13	11.19	12.32	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (80.329 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 106-tone RU (SDM)

[High Power mode]

11ax-80 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	53	13.03	11.60	24.63	13.92	23.97	10.05		14.66	15.05	29.70	14.73	29.97	15.24
	56	12.56	11.23	23.79	13.76	23.97	10.21		14.13	14.57	28.70	14.58	29.97	15.39
	60	13.40	11.82	25.21	14.02	23.97	9.95		15.07	15.33	30.39	14.83	29.97	15.14
5290	53	12.93	11.67	24.61	13.91	23.97	10.06		14.54	15.14	29.69	14.73	29.97	15.24
	56	12.67	11.73	24.40	13.87	23.97	10.10		14.25	15.21	29.46	14.69	29.97	15.28
	60	12.96	12.17	25.13	14.00	23.97	9.97		14.58	15.78	30.36	14.82	29.97	15.15
5530	53	12.57	12.50	25.07	13.99	23.97	9.98		14.14	16.21	30.35	14.82	29.97	15.15
	56	11.92	12.27	24.19	13.84	23.97	10.13		13.41	15.91	29.32	14.67	29.97	15.30
	60	12.72	12.76	25.48	14.06	23.97	9.91		14.30	16.55	30.85	14.89	29.97	15.08
5610	53	12.40	12.92	25.32	14.04	23.97	9.93		13.94	16.76	30.71	14.87	29.97	15.10
	56	12.14	12.48	24.63	13.91	23.97	10.06		13.66	16.19	29.85	14.75	29.97	15.22
	60	12.81	13.66	26.46	14.23	23.97	9.74		14.40	17.72	32.12	15.07	29.97	14.90
5690	53	12.12	11.30	23.41	13.69	23.97	10.28		13.63	14.65	28.28	14.51	29.97	15.46
	56	11.95	11.14	23.09	13.63	23.97	10.34		13.44	14.45	27.89	14.45	29.97	15.52
	60	12.83	11.94	24.77	13.94	23.97	10.03		14.43	15.49	29.92	14.76	29.97	15.21
5775	53	12.66	13.47	26.13	14.17	30.00	15.83		14.23	17.48	31.71	15.01	29.97	14.96
	56	12.77	13.72	26.50	14.23	30.00	15.77		14.36	17.80	32.17	15.07	29.97	14.90
	60	12.51	13.29	25.80	14.12	30.00	15.88		14.07	17.24	31.31	14.96	29.97	15.01

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	53	0.00	-10.93	1.91	20.17	0.51	11.15	11.66	-11.49	1.96	20.18	1.13	10.64	11.77	
	56	0.00	-11.09	1.91	20.17	0.51	10.99	11.50	-11.63	1.96	20.18	1.13	10.50	11.63	
	60	0.00	-10.81	1.91	20.17	0.51	11.27	11.78	-11.41	1.96	20.18	1.13	10.72	11.85	
5290	53	0.00	-10.97	1.92	20.17	0.51	11.12	11.63	-11.48	1.98	20.18	1.13	10.67	11.80	
	56	0.00	-11.06	1.92	20.17	0.51	11.03	11.54	-11.46	1.98	20.18	1.13	10.69	11.82	
	60	0.00	-10.96	1.92	20.17	0.51	11.13	11.64	-11.30	1.98	20.18	1.13	10.85	11.98	
5530	53	0.00	-11.13	1.96	20.17	0.51	10.99	11.50	-11.25	2.04	20.17	1.13	10.97	12.10	
	56	0.00	-11.36	1.96	20.17	0.51	10.76	11.27	-11.33	2.04	20.17	1.13	10.89	12.02	
	60	0.00	-11.08	1.96	20.17	0.51	11.04	11.55	-11.16	2.04	20.17	1.13	11.06	12.19	
5610	53	0.00	-11.18	1.95	20.16	0.51	10.93	11.44	-11.09	2.03	20.17	1.13	11.11	12.24	
	56	0.00	-11.27	1.95	20.16	0.51	10.84	11.35	-11.24	2.03	20.17	1.13	10.96	12.09	
	60	0.00	-11.04	1.95	20.16	0.51	11.07	11.58	-10.85	2.03	20.17	1.13	11.35	12.48	
5690	53	0.00	-11.27	1.94	20.16	0.51	10.83	11.34	-11.66	2.02	20.17	1.13	10.53	11.66	
	56	0.00	-11.33	1.94	20.16	0.51	10.77	11.28	-11.72	2.02	20.17	1.13	10.47	11.60	
	60	0.00	-11.02	1.94	20.16	0.51	11.08	11.59	-11.42	2.02	20.17	1.13	10.77	11.90	
5775	53	0.00	-11.11	1.97	20.16	0.51	11.02	11.53	-10.92	2.04	20.17	1.13	11.29	12.42	
	56	0.00	-11.07	1.97	20.16	0.51	11.06	11.57	-10.84	2.04	20.17	1.13	11.37	12.50	
	60	0.00	-11.16	1.97	20.16	0.51	10.97	11.48	-10.98	2.04	20.17	1.13	11.23	12.36	

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (80.329 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 242-tone RU (CDD)

[High Power mode]

11ax-80 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU	Conducted power							e.i.r.p.					
Frequency	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin	
[MHz]		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	
5210	61	12.91	11.03	23.94	13.79	23.97	10.18	16.75	14.30	31.05	14.92	29.97	15.05	
	62	12.19	11.03	23.22	13.66	23.97	10.31	15.81	14.30	30.12	14.79	29.97	15.18	
	64	12.65	11.52	24.17	13.83	23.97	10.14	16.41	14.94	31.35	14.96	29.97	15.01	
5290	61	12.76	11.57	24.32	13.86	23.97	10.11	16.55	15.01	31.55	14.99	29.97	14.98	
	62	12.52	11.20	23.72	13.75	23.97	10.22	16.24	14.53	30.77	14.88	29.97	15.09	
	64	12.67	11.36	24.02	13.81	23.97	10.16	16.43	14.73	31.16	14.94	29.97	15.03	
5530	61	12.43	12.30	24.72	13.93	23.97	10.04	16.12	15.95	32.07	15.06	29.97	14.91	
	62	12.15	12.02	24.16	13.83	23.97	10.14	15.75	15.59	31.34	14.96	29.97	15.01	
	64	12.43	12.50	24.92	13.97	23.97	10.00	16.12	16.21	32.33	15.10	29.97	14.87	
5610	61	12.01	12.80	24.81	13.95	23.97	10.02	15.57	16.61	32.18	15.08	29.97	14.89	
	62	11.68	12.95	24.63	13.91	23.97	10.06	15.15	16.80	31.95	15.04	29.97	14.93	
	64	12.46	13.25	25.71	14.10	23.97	9.87	16.16	17.19	33.35	15.23	29.97	14.74	
5690	61	11.98	11.09	23.07	13.63	23.97	10.34	15.54	14.39	29.92	14.76	29.97	15.21	
	62	11.92	11.06	22.99	13.61	23.97	10.36	15.47	14.35	29.82	14.74	29.97	15.23	
	64	12.37	11.48	23.85	13.77	23.97	10.20	16.05	14.89	30.94	14.90	29.97	15.07	
5775	61	11.62	11.90	23.52	13.71	30.00	16.29	15.08	15.43	30.51	14.84	29.97	15.13	
	62	11.65	11.92	23.57	13.72	30.00	16.28	15.11	15.47	30.58	14.85	29.97	15.12	
	64	12.20	13.04	25.24	14.02	30.00	15.98	15.82	16.92	32.75	15.15	29.97	14.82	

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	61	0.00	-10.97	1.91	20.17	1.13	11.11	12.24	-11.71	1.96	20.18	1.13	10.42	11.55	
	62	0.00	-11.22	1.91	20.17	1.13	10.86	11.99	-11.71	1.96	20.18	1.13	10.42	11.55	
	64	0.00	-11.06	1.91	20.17	1.13	11.02	12.15	-11.52	1.96	20.18	1.13	10.61	11.74	
5290	61	0.00	-11.03	1.92	20.17	1.13	11.06	12.19	-11.52	1.98	20.18	1.13	10.63	11.76	
	62	0.00	-11.11	1.92	20.17	1.13	10.98	12.11	-11.66	1.98	20.18	1.13	10.49	11.62	
	64	0.00	-11.06	1.92	20.17	1.13	11.03	12.16	-11.60	1.98	20.18	1.13	10.55	11.68	
5530	61	0.00	-11.18	1.96	20.17	1.13	10.94	12.07	-11.32	2.04	20.17	1.13	10.90	12.03	
	62	0.00	-11.28	1.96	20.17	1.13	10.84	11.97	-11.42	2.04	20.17	1.13	10.80	11.93	
	64	0.00	-11.18	1.96	20.17	1.13	10.94	12.07	-11.25	2.04	20.17	1.13	10.97	12.10	
5610	61	0.00	-11.32	1.95	20.16	1.13	10.79	11.92	-11.13	2.03	20.17	1.13	11.07	12.20	
	62	0.00	-11.44	1.95	20.16	1.13	10.67	11.80	-11.08	2.03	20.17	1.13	11.12	12.25	
	64	0.00	-11.16	1.95	20.16	1.13	10.95	12.08	-10.98	2.03	20.17	1.13	11.22	12.35	
5690	61	0.00	-11.32	1.94	20.16	1.13	10.78	11.91	-11.74	2.02	20.17	1.13	10.45	11.58	
	62	0.00	-11.34	1.94	20.16	1.13	10.76	11.89	-11.75	2.02	20.17	1.13	10.44	11.57	
	64	0.00	-11.18	1.94	20.16	1.13	10.92	12.05	-11.59	2.02	20.17	1.13	10.60	11.73	
5775	61	0.00	-11.48	1.97	20.16	1.13	10.65	11.78	-11.46	2.04	20.17	1.13	10.75	11.88	
	62	0.00	-11.47	1.97	20.16	1.13	10.66	11.79	-11.45	2.04	20.17	1.13	10.76	11.89	
	64	0.00	-11.27	1.97	20.16	1.13	10.86	11.99	-11.06	2.04	20.17	1.13	11.15	12.28	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (82.999 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 242-tone RU (SDM)

[High Power mode]

11ax-80 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.				
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	61	12.71	11.23	23.94	13.79	23.97	10.18	14.29	14.57	28.86	14.60	29.97	15.37
	62	12.25	11.21	23.45	13.70	23.97	10.27	13.77	14.54	28.31	14.52	29.97	15.45
	64	12.91	11.52	24.43	13.88	23.97	10.09	14.52	14.94	29.47	14.69	29.97	15.28
5290	61	12.90	11.70	24.60	13.91	23.97	10.06	14.51	15.18	29.69	14.73	29.97	15.24
	62	12.55	11.17	23.73	13.75	23.97	10.22	14.12	14.50	28.61	14.57	29.97	15.40
	64	12.67	11.51	24.18	13.83	23.97	10.14	14.25	14.94	29.18	14.65	29.97	15.32
5530	61	12.31	12.38	24.70	13.93	23.97	10.04	13.85	16.06	29.91	14.76	29.97	15.21
	62	12.17	12.35	24.53	13.90	23.97	10.07	13.69	16.02	29.71	14.73	29.97	15.24
	64	12.81	12.55	25.36	14.04	23.97	9.93	14.40	16.29	30.69	14.87	29.97	15.10
5610	61	12.03	12.54	24.58	13.91	23.97	10.06	13.53	16.27	29.80	14.74	29.97	15.23
	62	12.14	12.48	24.63	13.91	23.97	10.06	13.66	16.19	29.85	14.75	29.97	15.22
	64	12.49	13.44	25.92	14.14	23.97	9.83	14.04	17.43	31.47	14.98	29.97	14.99
5690	61	12.17	11.22	23.39	13.69	23.97	10.28	13.69	14.55	28.24	14.51	29.97	15.46
	62	12.01	11.09	23.10	13.64	23.97	10.33	13.50	14.39	27.89	14.45	29.97	15.52
	64	12.54	11.61	24.16	13.83	23.97	10.14	14.11	15.06	29.17	14.65	29.97	15.32
5775	61	12.11	11.95	24.07	13.81	30.00	16.19	13.62	15.50	29.13	14.64	29.97	15.33
	62	11.87	11.90	23.76	13.76	30.00	16.24	13.34	15.43	28.78	14.59	29.97	15.38
	64	12.40	13.01	25.41	14.05	30.00	15.95	13.94	16.88	30.82	14.89	29.97	15.08

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5210	61	0.00	-11.04	1.91	20.17	0.51	11.04	11.55	-11.63	1.96	20.18	1.13	10.50	11.63
	62	0.00	-11.20	1.91	20.17	0.51	10.88	11.39	-11.64	1.96	20.18	1.13	10.49	11.62
	64	0.00	-10.97	1.91	20.17	0.51	11.11	11.62	-11.52	1.96	20.18	1.13	10.61	11.74
5290	61	0.00	-10.98	1.92	20.17	0.51	11.11	11.62	-11.47	1.98	20.18	1.13	10.68	11.81
	62	0.00	-11.10	1.92	20.17	0.51	10.99	11.50	-11.67	1.98	20.18	1.13	10.48	11.61
	64	0.00	-11.06	1.92	20.17	0.51	11.03	11.54	-11.54	1.98	20.18	1.13	10.61	11.74
5530	61	0.00	-11.22	1.96	20.17	0.51	10.90	11.41	-11.29	2.04	20.17	1.13	10.93	12.06
	62	0.00	-11.27	1.96	20.17	0.51	10.85	11.36	-11.30	2.04	20.17	1.13	10.92	12.05
	64	0.00	-11.05	1.96	20.17	0.51	11.07	11.58	-11.23	2.04	20.17	1.13	10.99	12.12
5610	61	0.00	-11.31	1.95	20.16	0.51	10.80	11.31	-11.22	2.03	20.17	1.13	10.98	12.11
	62	0.00	-11.27	1.95	20.16	0.51	10.84	11.35	-11.24	2.03	20.17	1.13	10.96	12.09
	64	0.00	-11.15	1.95	20.16	0.51	10.96	11.47	-10.92	2.03	20.17	1.13	11.28	12.41
5690	61	0.00	-11.25	1.94	20.16	0.51	10.85	11.36	-11.69	2.02	20.17	1.13	10.50	11.63
	62	0.00	-11.31	1.94	20.16	0.51	10.79	11.30	-11.74	2.02	20.17	1.13	10.45	11.58
	64	0.00	-11.12	1.94	20.16	0.51	10.98	11.49	-11.54	2.02	20.17	1.13	10.65	11.78
5775	61	0.00	-11.30	1.97	20.16	0.51	10.83	11.34	-11.44	2.04	20.17	1.13	10.77	11.90
	62	0.00	-11.39	1.97	20.16	0.51	10.74	11.25	-11.46	2.04	20.17	1.13	10.75	11.88
	64	0.00	-11.20	1.97	20.16	0.51	10.93	11.44	-11.07	2.04	20.17	1.13	11.14	12.27

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (82.999 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 484-tone RU (CDD)

[High Power mode]

11ax-80 (OFDMA)(CDD) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU	Conducted power							e.i.r.p.						
Frequency	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin		
[MHz]		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]		
5210	65	12.82	11.28	24.11	13.82	23.97	10.15	16.64	14.64	31.27	14.95	29.97	15.02		
	66	12.80	11.52	24.31	13.86	23.97	10.11	16.60	14.94	31.54	14.99	29.97	14.98		
5290	65	12.81	11.28	24.09	13.82	23.97	10.15	16.62	14.63	31.25	14.95	29.97	15.02		
	66	12.84	11.54	24.38	13.87	23.97	10.10	16.66	14.97	31.63	15.00	29.97	14.97		
5530	65	12.60	12.35	24.95	13.97	23.97	10.00	16.35	16.02	32.37	15.10	29.97	14.87		
	66	12.69	12.50	25.18	14.01	23.97	9.96	16.46	16.21	32.67	15.14	29.97	14.83		
5610	65	12.26	12.92	25.18	14.01	23.97	9.96	15.90	16.76	32.66	15.14	29.97	14.83		
	66	12.54	13.25	25.80	14.12	23.97	9.85	16.27	17.19	33.46	15.25	29.97	14.72		
5690	65	12.66	11.37	24.03	13.81	23.97	10.16	16.42	14.76	31.18	14.94	29.97	15.03		
	66	12.37	11.69	24.06	13.81	23.97	10.16	16.05	15.17	31.22	14.94	29.97	15.03		
5775	65	11.81	12.15	23.96	13.79	30.00	16.21	15.32	15.76	31.08	14.92	29.97	15.05		
	66	12.37	12.69	25.06	13.99	30.00	16.01	16.04	16.46	32.50	15.12	29.97	14.85		

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5210	65	0.00	-11.00	1.91	20.17	1.13	11.08	12.21	-11.61	1.96	20.18	1.13	10.52	11.65
	66	0.00	-11.01	1.91	20.17	1.13	11.07	12.20	-11.52	1.96	20.18	1.13	10.61	11.74
5290	65	0.00	-11.01	1.92	20.17	1.13	11.08	12.21	-11.63	1.98	20.18	1.13	10.52	11.65
	66	0.00	-11.00	1.92	20.17	1.13	11.09	12.22	-11.53	1.98	20.18	1.13	10.62	11.75
5530	65	0.00	-11.12	1.96	20.17	1.13	11.00	12.13	-11.30	2.04	20.17	1.13	10.92	12.05
	66	0.00	-11.09	1.96	20.17	1.13	11.03	12.16	-11.25	2.04	20.17	1.13	10.97	12.10
5610	65	0.00	-11.23	1.95	20.16	1.13	10.88	12.01	-11.09	2.03	20.17	1.13	11.11	12.24
	66	0.00	-11.13	1.95	20.16	1.13	10.98	12.11	-10.98	2.03	20.17	1.13	11.22	12.35
5690	65	0.00	-11.08	1.94	20.16	1.13	11.02	12.15	-11.63	2.02	20.17	1.13	10.56	11.69
	66	0.00	-11.18	1.94	20.16	1.13	10.92	12.05	-11.51	2.02	20.17	1.13	10.68	11.81
5775	65	0.00	-11.41	1.97	20.16	1.13	10.72	11.85	-11.37	2.04	20.17	1.13	10.84	11.97
	66	0.00	-11.21	1.97	20.16	1.13	10.92	12.05	-11.18	2.04	20.17	1.13	11.03	12.16

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (85.488 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 484-tone RU (SDM)

[High Power mode]

11ax-80 (OFDMA)(SDM) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU	Conducted power							e.i.r.p.					
Frequency	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin	
[MHz]		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	
5210	65	12.74	11.13	23.87	13.78	23.97	10.19	14.32	14.44	28.76	14.59	29.97	15.38	
	66	13.12	11.36	24.49	13.89	23.97	10.08	14.76	14.74	29.50	14.70	29.97	15.27	
5290	65	13.08	11.28	24.36	13.87	23.97	10.10	14.71	14.63	29.34	14.68	29.97	15.29	
	66	13.14	11.36	24.50	13.89	23.97	10.08	14.78	14.73	29.51	14.70	29.97	15.27	
5530	65	12.60	12.18	24.78	13.94	23.97	10.03	14.17	15.80	29.98	14.77	29.97	15.20	
	66	12.89	12.67	25.56	14.08	23.97	9.89	14.50	16.44	30.94	14.90	29.97	15.07	
5610	65	12.60	12.57	25.17	14.01	23.97	9.96	14.17	16.31	30.48	14.84	29.97	15.13	
	66	12.49	13.10	25.59	14.08	23.97	9.89	14.04	17.00	31.04	14.92	29.97	15.05	
5690	65	11.98	11.19	23.17	13.65	23.97	10.32	13.47	14.52	27.99	14.47	29.97	15.50	
	66	12.43	11.53	23.96	13.79	23.97	10.18	13.98	14.96	28.94	14.61	29.97	15.36	
5775	65	12.20	11.73	23.93	13.79	30.00	16.21	13.72	15.22	28.94	14.61	29.97	15.36	
	66	12.69	12.49	25.17	14.01	30.00	15.99	14.27	16.20	30.46	14.84	29.97	15.13	

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5210	65	0.00	-11.03	1.91	20.17	0.51	11.05	11.56	-11.67	1.96	20.18	1.13	10.46	11.59
	66	0.00	-10.90	1.91	20.17	0.51	11.18	11.69	-11.58	1.96	20.18	1.13	10.55	11.68
5290	65	0.00	-10.92	1.92	20.17	0.51	11.17	11.68	-11.63	1.98	20.18	1.13	10.52	11.65
	66	0.00	-10.90	1.92	20.17	0.51	11.19	11.70	-11.60	1.98	20.18	1.13	10.55	11.68
5530	65	0.00	-11.12	1.96	20.17	0.51	11.00	11.51	-11.36	2.04	20.17	1.13	10.86	11.99
	66	0.00	-11.02	1.96	20.17	0.51	11.10	11.61	-11.19	2.04	20.17	1.13	11.03	12.16
5610	65	0.00	-11.11	1.95	20.16	0.51	11.00	11.51	-11.21	2.03	20.17	1.13	10.99	12.12
	66	0.00	-11.15	1.95	20.16	0.51	10.96	11.47	-11.03	2.03	20.17	1.13	11.17	12.30
5690	65	0.00	-11.32	1.94	20.16	0.51	10.78	11.29	-11.70	2.02	20.17	1.13	10.49	11.62
	66	0.00	-11.16	1.94	20.16	0.51	10.94	11.45	-11.57	2.02	20.17	1.13	10.62	11.75
5775	65	0.00	-11.27	1.97	20.16	0.51	10.86	11.37	-11.52	2.04	20.17	1.13	10.69	11.82
	66	0.00	-11.10	1.97	20.16	0.51	11.03	11.54	-11.25	2.04	20.17	1.13	10.96	12.09

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (85.488 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 996-tone RU (CDD)

[High Power mode]

11ax-80 (OFDMA)(CDD) 996-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	67	12.95	11.65	24.59	13.91	23.97	10.06		16.79	15.11	31.90	15.04	29.97	14.93
5290	67	13.12	12.02	25.14	14.00	23.97	9.97		17.01	15.60	32.61	15.13	29.97	14.84
5530	67	12.64	12.56	25.20	14.01	23.97	9.96		16.39	16.30	32.69	15.14	29.97	14.83
5610	67	12.25	13.07	25.33	14.04	23.97	9.93		15.89	16.96	32.85	15.17	29.97	14.80
5690	67	12.22	11.29	23.51	13.71	23.97	10.26		15.85	14.64	30.50	14.84	29.97	15.13
5775	67	12.18	12.45	24.63	13.91	30.00	16.09		15.80	16.15	31.94	15.04	36.00	20.96

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]							[dBm]	[dBm]					[dBm]	[dBm]
5210	67	0.00	-10.96	1.91	20.17	1.13	11.12	12.25	-11.47	1.96	20.18	1.13	10.66	11.79
5290	67	0.00	-10.91	1.92	20.17	1.13	11.18	12.31	-11.35	1.98	20.18	1.13	10.80	11.93
5530	67	0.00	-11.11	1.96	20.17	1.13	11.02	12.15	-11.23	2.05	20.17	1.13	10.99	12.12
5610	67	0.00	-11.24	1.96	20.16	1.13	10.88	12.01	-11.05	2.04	20.17	1.13	11.16	12.29
5690	67	0.00	-11.23	1.94	20.16	1.13	10.87	12.00	-11.66	2.01	20.17	1.13	10.53	11.66
5775	67	0.00	-11.28	1.98	20.16	1.13	10.86	11.99	-11.27	2.05	20.17	1.13	10.95	12.08

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (88.344 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 996-tone RU (SDM)

[High Power mode]

11ax-80 (OFDMA)(SDM) 996-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU	Conducted power							e.i.r.p.					
Frequency	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin	
[MHz]		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	
5210	67	13.43	11.59	25.03	13.98	23.97	9.99	15.11	15.04	30.15	14.79	29.97	15.18	
5290	67	13.51	11.72	25.24	14.02	23.97	9.95	15.20	15.21	30.40	14.83	29.97	15.14	
5530	67	13.05	12.83	25.88	14.13	23.97	9.84	14.68	16.64	31.32	14.96	29.97	15.01	
5610	67	13.34	13.32	26.66	14.26	23.97	9.71	15.00	17.28	32.28	15.09	29.97	14.88	
5690	67	13.01	11.82	24.82	13.95	23.97	10.02	14.63	15.33	29.96	14.77	29.97	15.20	
5775	67	12.78	13.15	25.94	14.14	30.00	15.86	14.38	17.06	31.44	14.97	36.00	21.03	

Tested Frequency [MHz]	RU Index	Duty Factor *1) [dB]	5G_CH0						5G_CH1					
			Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5210	67	0.00	-10.80	1.91	20.17	0.51	11.28	11.79	-11.49	1.96	20.18	1.13	10.64	11.77
5290	67	0.00	-10.78	1.92	20.17	0.51	11.31	11.82	-11.46	1.98	20.18	1.13	10.69	11.82
5530	67	0.00	-10.97	1.96	20.17	0.51	11.16	11.67	-11.14	2.05	20.17	1.13	11.08	12.21
5610	67	0.00	-10.87	1.96	20.16	0.51	11.25	11.76	-10.97	2.04	20.17	1.13	11.24	12.37
5690	67	0.00	-10.96	1.94	20.16	0.51	11.14	11.65	-11.46	2.01	20.17	1.13	10.73	11.86
5775	67	0.00	-11.07	1.98	20.16	0.51	11.07	11.58	-11.03	2.05	20.17	1.13	11.19	12.32

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (88.344 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 24, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-160 (OFDM) (CDD)

[High Power mode]

11ax-160 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5250	13.75	12.41	26.17	14.18	23.97	9.79	17.84	16.10	33.94	15.31	29.97	14.66
5570	12.50	13.27	25.76	14.11	23.97	9.86	16.21	17.21	33.42	15.24	29.97	14.73

		5G_CH0							5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5250	0.00	-10.70	1.91	20.17	1.13	11.38	12.51	-11.20	1.96	20.18	1.13	10.94	12.07	
5570	0.00	-11.15	1.95	20.17	1.13	10.97	12.10	-10.98	2.03	20.17	1.13	11.23	12.36	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (168.672 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 24, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-160 (OFDM) (SDM)

[High Power mode]

11ax-160 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna	Antenna	Sum	Result	Limit	Margin	Antenna	Antenna	Sum	Result	Limit	Margin
[MHz]	5G_CH0	5G_CH1	Sum	Result	Limit	Margin	5G_CH0	5G_CH1	Sum	Result	Limit	Margin
[mW]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5250	13.47	12.30	25.77	14.11	23.97	9.86	15.15	15.96	31.11	14.93	29.97	15.04
5570	12.44	13.09	25.52	14.07	23.97	9.90	13.99	16.97	30.96	14.91	29.97	15.06

5G_CH0							5G_CH1						
Tested Frequency	Duty Factor	Power Meter	Cable Loss	Atten. Loss	Antenna Gain	Result	Power Meter	Cable Loss	Atten. Loss	Antenna Gain	Result	Cond. Power	e.i.r.p.
[MHz]	*1)	Reading	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]
5250	0.00	-10.79	1.91	20.17	0.51	11.29	11.80	-11.24	1.96	20.18	1.13	10.90	12.03
5570	0.00	-11.17	1.95	20.17	0.51	10.95	11.46	-11.04	2.03	20.17	1.13	11.17	12.30

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (168.672 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (CDD)

[High Power mode]

11ax-160 (OFDMA)(CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU tone	Segment	RU Index	Conducted power						e.i.r.p.					
				Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5250	26	0	0	2.72	2.26	4.99	6.98	23.97	16.99	3.53	2.94	6.47	8.11	29.97	21.86
		0	36	2.97	2.61	5.58	7.46	23.97	16.51	3.85	3.38	7.23	8.59	29.97	21.38
		1	36	2.63	2.40	5.03	7.01	23.97	16.96	3.41	3.11	6.52	8.14	29.97	21.83
5250	52	0	37	6.07	5.54	11.61	10.65	23.97	13.32	7.87	7.19	15.06	11.78	29.97	18.19
		0	52	5.75	5.54	11.30	10.53	23.97	13.44	7.46	7.19	14.65	11.66	29.97	18.31
		1	52	5.32	4.91	10.23	10.10	23.97	13.87	6.90	6.37	13.27	11.23	29.97	18.74
5250	106	0	53	11.91	10.79	22.69	13.56	23.97	10.41	15.45	13.99	29.44	14.69	29.97	15.28
		0	60	13.45	11.88	25.34	14.04	23.97	9.93	17.45	15.41	32.86	15.17	29.97	14.80
		1	60	12.16	11.32	23.48	13.71	23.97	10.26	15.77	14.68	30.46	14.84	29.97	15.13
5250	242	0	61	12.47	11.14	23.61	13.73	23.97	10.24	16.18	14.45	30.63	14.86	29.97	15.11
		0	64	13.18	11.96	25.14	14.00	23.97	9.97	17.10	15.52	32.61	15.13	29.97	14.84
		1	64	12.97	11.45	24.42	13.88	23.97	10.09	16.82	14.85	31.68	15.01	29.97	14.96
5250	484	0	65	12.56	11.16	23.72	13.75	23.97	10.22	16.29	14.48	30.77	14.88	29.97	15.09
		0	66	13.24	11.45	24.69	13.93	23.97	10.04	17.17	14.85	32.03	15.06	29.97	14.91
		1	66	13.15	11.74	24.89	13.96	23.97	10.01	17.06	15.24	32.29	15.09	29.97	14.88
5250	996	0	67	12.85	11.58	24.43	13.88	23.97	10.09	16.67	15.03	31.69	15.01	29.97	14.96
		1	67	13.12	11.80	24.92	13.96	23.97	10.01	17.02	15.31	32.32	15.09	29.97	14.88
5250	2 x 996	-	68	12.61	11.37	23.99	13.80	23.97	10.17	16.36	14.75	31.12	14.93	29.97	15.04

Tested Frequency [MHz]	RU tone	Segment	RU Index	Duty Factor *1 [dB]	5G_CH0					5G_CH1					Result	
					Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]
					[dB]	[dB]	[dB]	[dB]	[dBm]	[dBm]	[dB]	[dB]	[dB]	[dB]	[dBm]	[dBm]
5250	26	0	0	0.00	-17.74	1.92	20.17	1.13	4.35	5.48	-18.60	1.97	20.18	1.13	3.55	4.68
		0	36	0.00	-17.36	1.92	20.17	1.13	4.73	5.86	-17.99	1.97	20.18	1.13	4.16	5.29
		1	36	0.00	-17.89	1.92	20.17	1.13	4.20	5.33	-18.35	1.97	20.18	1.13	3.80	4.93
5250	52	0	37	0.00	-14.26	1.92	20.17	1.13	7.83	8.96	-14.71	1.97	20.18	1.13	7.44	8.57
		0	52	0.00	-14.49	1.92	20.17	1.13	7.60	8.73	-14.71	1.97	20.18	1.13	7.44	8.57
		1	52	0.00	-14.83	1.92	20.17	1.13	7.26	8.39	-15.24	1.97	20.18	1.13	6.91	8.04
5250	106	0	53	0.00	-11.33	1.92	20.17	1.13	10.76	11.89	-11.82	1.97	20.18	1.13	10.33	11.46
		0	60	0.00	-10.80	1.92	20.17	1.13	11.29	12.42	-11.40	1.97	20.18	1.13	10.75	11.88
		1	60	0.00	-11.24	1.92	20.17	1.13	10.85	11.98	-11.61	1.97	20.18	1.13	10.54	11.67
5250	242	0	61	0.00	-11.13	1.92	20.17	1.13	10.96	12.09	-11.68	1.97	20.18	1.13	10.47	11.60
		0	64	0.00	-10.89	1.92	20.17	1.13	11.20	12.33	-11.37	1.97	20.18	1.13	10.78	11.91
		1	64	0.00	-10.96	1.92	20.17	1.13	11.13	12.26	-11.56	1.97	20.18	1.13	10.59	11.72
5250	484	0	65	0.00	-11.10	1.92	20.17	1.13	10.99	12.12	-11.67	1.97	20.18	1.13	10.48	11.61
		0	66	0.00	-10.87	1.92	20.17	1.13	11.22	12.35	-11.56	1.97	20.18	1.13	10.59	11.72
		1	66	0.00	-10.90	1.92	20.17	1.13	11.19	12.32	-11.45	1.97	20.18	1.13	10.70	11.83
5250	996	0	67	0.00	-11.00	1.92	20.17	1.13	11.09	12.22	-11.51	1.97	20.18	1.13	10.64	11.77
		1	67	0.00	-10.91	1.92	20.17	1.13	11.18	12.31	-11.43	1.97	20.18	1.13	10.72	11.85
5250	2 x 996	-	68	0.00	-11.08	1.92	20.17	1.13	11.01	12.14	-11.59	1.97	20.18	1.13	10.56	11.69

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (163.230 MHz) as conservative limit. (26-tone)

For all test frequencies, B was applied the minimum value (163.324 MHz) as conservative limit. (52-tone)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* RU 26 and RU52 are the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (CDD)

[High Power mode]

11ax-160 (OFDMA)(CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU tone	Segment	RU Index	Conducted power							e.i.r.p.						
				Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin		
				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]		
5570	26	0	0	9.33	9.84	19.17	12.83	23.97	11.14	12.10	12.77	24.87	13.96	29.97	16.01		
		0	36	10.81	10.59	21.41	13.31	23.97	10.66	14.02	13.74	27.77	14.44	29.97	15.53		
		1	36	10.30	9.64	19.94	13.00	23.97	10.97	13.36	12.50	25.87	14.13	29.97	15.84		
5570	52	0	37	11.27	10.94	22.21	13.47	23.97	10.50	14.62	14.19	28.81	14.60	29.97	15.37		
		0	52	12.64	12.59	25.24	14.02	23.97	9.95	16.40	16.33	32.74	15.15	29.97	14.82		
		1	52	11.80	12.53	24.33	13.86	23.97	10.11	15.31	16.26	31.57	14.99	29.97	14.98		
5570	106	0	53	11.09	11.15	22.23	13.47	23.97	10.50	14.38	14.46	28.84	14.60	29.97	15.37		
		0	60	12.56	12.62	25.18	14.01	23.97	9.96	16.29	16.37	32.66	15.14	29.97	14.83		
		1	60	11.99	12.39	24.38	13.87	23.97	10.10	15.56	16.07	31.63	15.00	29.97	14.97		
5570	242	0	61	11.80	11.78	23.58	13.73	23.97	10.24	15.31	15.28	30.59	14.86	29.97	15.11		
		0	64	12.79	12.56	25.35	14.04	23.97	9.93	16.59	16.30	32.89	15.17	29.97	14.80		
		1	64	12.19	12.74	24.92	13.97	23.97	10.00	15.81	16.52	32.33	15.10	29.97	14.87		
5570	484	0	65	11.88	11.59	23.47	13.71	23.97	10.26	15.41	15.03	30.45	14.84	29.97	15.13		
		0	66	12.53	12.33	24.86	13.96	23.97	10.01	16.25	16.00	32.25	15.09	29.97	14.88		
		1	66	12.30	12.65	24.95	13.97	23.97	10.00	15.95	16.41	32.36	15.10	29.97	14.87		
5570	996	0	67	12.08	12.05	24.13	13.83	23.97	10.14	15.66	15.63	31.30	14.96	29.97	15.01		
		1	67	12.44	12.71	25.15	14.01	23.97	9.96	16.14	16.48	32.62	15.14	29.97	14.83		
5570	2 x 996	-	68	13.27	13.46	26.73	14.27	23.97	9.70	17.21	17.46	34.68	15.40	29.97	14.57		

					5G_CH0					5G_CH1						
Tested Frequency	RU tone	Segment	RU Index	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
[MHz]									Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5570	26	0	0	0.00	-12.42	1.95	20.16	1.13	9.70	10.83	-12.28	2.04	20.17	1.13	9.93	11.06
		0	36	0.00	-11.78	1.95	20.16	1.13	10.34	11.47	-11.96	2.04	20.17	1.13	10.25	11.38
		1	36	0.00	-11.99	1.95	20.16	1.13	10.13	11.26	-12.37	2.04	20.17	1.13	9.84	10.97
5570	52	0	37	0.00	-11.60	1.95	20.16	1.13	10.52	11.65	-11.82	2.04	20.17	1.13	10.39	11.52
		0	52	0.00	-11.10	1.95	20.16	1.13	11.02	12.15	-11.21	2.04	20.17	1.13	11.00	12.13
		1	52	0.00	-11.40	1.95	20.16	1.13	10.72	11.85	-11.23	2.04	20.17	1.13	10.98	12.11
5570	106	0	53	0.00	-11.67	1.95	20.16	1.13	10.45	11.58	-11.74	2.04	20.17	1.13	10.47	11.60
		0	60	0.00	-11.13	1.95	20.16	1.13	10.99	12.12	-11.20	2.04	20.17	1.13	11.01	12.14
		1	60	0.00	-11.33	1.95	20.16	1.13	10.79	11.92	-11.28	2.04	20.17	1.13	10.93	12.06
5570	242	0	61	0.00	-11.40	1.95	20.16	1.13	10.72	11.85	-11.50	2.04	20.17	1.13	10.71	11.84
		0	64	0.00	-11.05	1.95	20.16	1.13	11.07	12.20	-11.22	2.04	20.17	1.13	10.99	12.12
		1	64	0.00	-11.26	1.95	20.16	1.13	10.86	11.99	-11.16	2.04	20.17	1.13	11.05	12.18
5570	484	0	65	0.00	-11.37	1.95	20.16	1.13	10.75	11.88	-11.57	2.04	20.17	1.13	10.64	11.77
		0	66	0.00	-11.14	1.95	20.16	1.13	10.98	12.11	-11.30	2.04	20.17	1.13	10.91	12.04
		1	66	0.00	-11.22	1.95	20.16	1.13	10.90	12.03	-11.19	2.04	20.17	1.13	11.02	12.15
5570	996	0	67	0.00	-11.30	1.95	20.16	1.13	10.82	11.95	-11.40	2.04	20.17	1.13	10.81	11.94
		1	67	0.00	-11.17	1.95	20.16	1.13	10.95	12.08	-11.17	2.04	20.17	1.13	11.04	12.17
5570	2 x 996	-	68	0.00	-10.89	1.95	20.16	1.13	11.23	12.36	-10.92	2.04	20.17	1.13	11.29	12.42

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (163.230 MHz) as conservative limit. (26-tone)

For all test frequencies, B was applied the minimum value (163.324 MHz) as conservative limit. (52-tone)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (SDM)

[High Power mode]

11ax-160 (OFDMA)(SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU tone	Segment	RU Index	Conducted power							e.i.r.p.						
				Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5250	26	0	0	2.68	2.39	5.08	7.06	23.97	16.91	3.02	3.10	6.12	7.87	29.97	22.10		
		0	36	2.94	2.59	5.53	7.43	23.97	16.54	3.31	3.36	6.67	8.24	29.97	21.73		
		1	36	2.72	2.28	5.01	7.00	23.97	16.97	3.06	2.96	6.02	7.80	29.97	22.17		
5250	52	0	37	5.46	4.81	10.26	10.11	23.97	13.86	6.14	6.24	12.37	10.92	29.97	19.05		
		0	52	6.05	5.53	11.58	10.64	23.97	13.33	6.81	7.18	13.98	11.46	29.97	18.51		
		1	52	5.39	5.08	10.47	10.20	23.97	13.77	6.07	6.59	12.65	11.02	29.97	18.95		
5250	106	0	53	11.99	10.54	22.53	13.53	23.97	10.44	13.49	13.67	27.16	14.34	29.97	15.63		
		0	60	13.27	11.96	25.23	14.02	23.97	9.95	14.92	15.52	30.44	14.83	29.97	15.14		
		1	60	12.38	11.29	23.68	13.74	23.97	10.23	13.93	14.65	28.58	14.56	29.97	15.41		
5250	242	0	61	12.38	11.19	23.57	13.72	23.97	10.25	13.93	14.52	28.44	14.54	29.97	15.43		
		0	64	13.42	11.74	25.17	14.01	23.97	9.96	15.10	15.24	30.33	14.82	29.97	15.15		
		1	64	12.88	12.10	24.98	13.98	23.97	9.99	14.48	15.70	30.18	14.80	29.97	15.17		
5250	484	0	65	12.27	11.35	23.62	13.73	23.97	10.24	13.80	14.72	28.52	14.55	29.97	15.42		
		0	66	13.12	11.83	24.94	13.97	23.97	10.00	14.75	15.34	30.09	14.78	29.97	15.19		
		1	66	12.97	11.77	24.74	13.93	23.97	10.04	14.58	15.27	29.85	14.75	29.97	15.22		
5250	996	0	67	12.59	10.86	23.45	13.70	23.97	10.27	14.15	14.09	28.24	14.51	29.97	15.46		
		1	67	13.06	11.85	24.91	13.96	23.97	10.01	14.68	15.38	30.06	14.78	29.97	15.19		
5250	2 x 996	-	68	12.61	11.24	23.86	13.78	23.97	10.19	14.19	14.58	28.77	14.59	29.97	15.38		

Tested Frequency [MHz]	RU tone	Segment	RU Index	5G_CH0							5G_CH1						
				Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		
									Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5250	26	0	0	0.00	-17.80	1.92	20.17	0.51	4.29	4.80	-18.36	1.97	20.18	1.13	3.79	4.92	
		0	36	0.00	-17.40	1.92	20.17	0.51	4.69	5.20	-18.02	1.97	20.18	1.13	4.13	5.26	
		1	36	0.00	-17.74	1.92	20.17	0.51	4.35	4.86	-18.56	1.97	20.18	1.13	3.59	4.72	
5250	52	0	37	0.00	-14.72	1.92	20.17	0.51	7.37	7.88	-15.33	1.97	20.18	1.13	6.82	7.95	
		0	52	0.00	-14.27	1.92	20.17	0.51	7.82	8.33	-14.72	1.97	20.18	1.13	7.43	8.56	
		1	52	0.00	-14.77	1.92	20.17	0.51	7.32	7.83	-15.09	1.97	20.18	1.13	7.06	8.19	
5250	106	0	53	0.00	-11.30	1.92	20.17	0.51	10.79	11.30	-11.92	1.97	20.18	1.13	10.23	11.36	
		0	60	0.00	-10.86	1.92	20.17	0.51	11.23	11.74	-11.37	1.97	20.18	1.13	10.78	11.91	
		1	60	0.00	-11.16	1.92	20.17	0.51	10.93	11.44	-11.62	1.97	20.18	1.13	10.53	11.66	
5250	242	0	61	0.00	-11.16	1.92	20.17	0.51	10.93	11.44	-11.66	1.97	20.18	1.13	10.49	11.62	
		0	64	0.00	-10.81	1.92	20.17	0.51	11.28	11.79	-11.45	1.97	20.18	1.13	10.70	11.83	
		1	64	0.00	-10.99	1.92	20.17	0.51	11.10	11.61	-11.32	1.97	20.18	1.13	10.83	11.96	
5250	484	0	65	0.00	-11.20	1.92	20.17	0.51	10.89	11.40	-11.60	1.97	20.18	1.13	10.55	11.68	
		0	66	0.00	-10.91	1.92	20.17	0.51	11.18	11.69	-11.42	1.97	20.18	1.13	10.73	11.86	
		1	66	0.00	-10.96	1.92	20.17	0.51	11.13	11.64	-11.44	1.97	20.18	1.13	10.71	11.84	
5250	996	0	67	0.00	-11.09	1.92	20.17	0.51	11.00	11.51	-11.79	1.97	20.18	1.13	10.36	11.49	
		1	67	0.00	-10.93	1.92	20.17	0.51	11.16	11.67	-11.41	1.97	20.18	1.13	10.74	11.87	
5250	2 x 996	-	68	0.00	-11.08	1.92	20.17	0.51	11.01	11.52	-11.64	1.97	20.18	1.13	10.51	11.64	

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (163.230 MHz) as conservative limit. (26-tone)

For all test frequencies, B was applied the minimum value (163.324 MHz) as conservative limit. (52-tone)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* RU 26 and RU 52 are the same power setting for High power mode and Standard power mode.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (SDM)

[High Power mode]

11ax-160 (OFDMA)(SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU		RU	Conducted power							e.i.r.p.					
Frequency	tone	Segment	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin	
[MHz]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	
5570	26	0	0	9.50	9.49	18.99	12.79	23.97	11.18	10.69	12.30	22.99	13.62	29.97	16.35	
		0	36	10.33	10.59	20.92	13.21	23.97	10.76	11.61	13.74	25.35	14.04	29.97	15.93	
		1	36	10.37	9.71	20.08	13.03	23.97	10.94	11.67	12.59	24.26	13.85	29.97	16.12	
5570	52	0	37	11.69	11.94	23.63	13.74	23.97	10.23	13.15	15.49	28.64	14.57	29.97	15.40	
		0	52	13.00	13.28	26.28	14.20	23.97	9.77	14.62	17.22	31.84	15.03	29.97	14.94	
		1	52	12.30	12.80	25.10	14.00	23.97	9.97	13.83	16.60	30.43	14.83	29.97	15.14	
5570	106	0	53	11.35	10.97	22.31	13.49	23.97	10.48	12.76	14.23	26.99	14.31	29.97	15.66	
		0	60	12.50	12.45	24.95	13.97	23.97	10.00	14.06	16.15	30.20	14.80	29.97	15.17	
		1	60	12.16	12.45	24.61	13.91	23.97	10.06	13.67	16.15	29.82	14.75	29.97	15.22	
5570	242	0	61	11.56	11.70	23.26	13.67	23.97	10.30	13.00	15.17	28.17	14.50	29.97	15.47	
		0	64	12.50	12.86	25.35	14.04	23.97	9.93	14.06	16.68	30.73	14.88	29.97	15.09	
		1	64	12.02	12.80	24.82	13.95	23.97	10.02	13.52	16.60	30.12	14.79	29.97	15.18	
5570	484	0	65	11.69	11.94	23.63	13.74	23.97	10.23	13.15	15.49	28.64	14.57	29.97	15.40	
		0	66	12.41	12.86	25.27	14.03	23.97	9.94	13.96	16.68	30.64	14.86	29.97	15.11	
		1	66	12.22	12.71	24.92	13.97	23.97	10.00	13.74	16.48	30.22	14.80	29.97	15.17	
5570	996	0	67	11.91	11.70	23.61	13.73	23.97	10.24	13.39	15.17	28.57	14.56	29.97	15.41	
		1	67	12.33	12.62	24.95	13.97	23.97	10.00	13.86	16.37	30.24	14.81	29.97	15.16	
5570	2 x 996	-	68	13.64	13.71	27.35	14.37	23.97	9.60	15.34	17.79	33.13	15.20	29.97	14.77	

					5G_CH0						5G_CH1					
Tested Frequency	RU tone	Segment	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]				[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5570	26	0	0	0.00	-12.34	1.95	20.16	0.51	9.78	10.29	-12.44	2.04	20.17	1.13	9.77	10.90
		0	36	0.00	-11.98	1.95	20.16	0.51	10.14	10.65	-11.96	2.04	20.17	1.13	10.25	11.38
		1	36	0.00	-11.96	1.95	20.16	0.51	10.16	10.67	-12.34	2.04	20.17	1.13	9.87	11.00
5570	52	0	37	0.00	-11.44	1.95	20.16	0.51	10.68	11.19	-11.44	2.04	20.17	1.13	10.77	11.90
		0	52	0.00	-10.98	1.95	20.16	0.51	11.14	11.65	-10.98	2.04	20.17	1.13	11.23	12.36
		1	52	0.00	-11.22	1.95	20.16	0.51	10.90	11.41	-11.14	2.04	20.17	1.13	11.07	12.20
5570	106	0	53	0.00	-11.57	1.95	20.16	0.51	10.55	11.06	-11.81	2.04	20.17	1.13	10.40	11.53
		0	60	0.00	-11.15	1.95	20.16	0.51	10.97	11.48	-11.26	2.04	20.17	1.13	10.95	12.08
		1	60	0.00	-11.27	1.95	20.16	0.51	10.85	11.36	-11.26	2.04	20.17	1.13	10.95	12.08
5570	242	0	61	0.00	-11.49	1.95	20.16	0.51	10.63	11.14	-11.53	2.04	20.17	1.13	10.68	11.81
		0	64	0.00	-11.15	1.95	20.16	0.51	10.97	11.48	-11.12	2.04	20.17	1.13	11.09	12.22
		1	64	0.00	-11.32	1.95	20.16	0.51	10.80	11.31	-11.14	2.04	20.17	1.13	11.07	12.20
5570	484	0	65	0.00	-11.44	1.95	20.16	0.51	10.68	11.19	-11.44	2.04	20.17	1.13	10.77	11.90
		0	66	0.00	-11.18	1.95	20.16	0.51	10.94	11.45	-11.12	2.04	20.17	1.13	11.09	12.22
		1	66	0.00	-11.25	1.95	20.16	0.51	10.87	11.38	-11.17	2.04	20.17	1.13	11.04	12.17
5570	996	0	67	0.00	-11.36	1.95	20.16	0.51	10.76	11.27	-11.53	2.04	20.17	1.13	10.68	11.81
		1	67	0.00	-11.21	1.95	20.16	0.51	10.91	11.42	-11.20	2.04	20.17	1.13	11.01	12.14
5570	2 x 996	-	68	0.00	-10.77	1.95	20.16	0.51	11.35	11.86	-10.84	2.04	20.17	1.13	11.37	12.50

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (163.230 MHz) as conservative limit. (26-tone)

For all test frequencies, B was applied the minimum value (163.324 MHz) as conservative limit. (52-tone)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 24, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11a

[Standard Power mode]

11a (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	6.79	5.96	12.75	11.06	23.97	12.91	8.81	7.74	16.54	12.19	29.97	17.78
5220	6.57	5.94	12.51	10.97	23.97	13.00	8.53	7.70	16.23	12.10	29.97	17.87
5240	7.27	6.79	14.06	11.48	23.97	12.49	9.43	8.81	18.24	12.61	29.97	17.36
5260	7.27	6.67	13.93	11.44	23.97	12.53	9.43	8.65	18.08	12.57	29.97	17.40
5300	7.52	6.61	14.13	11.50	23.97	12.47	9.75	8.58	18.33	12.63	29.97	17.34
5320	7.50	6.67	14.17	11.51	23.97	12.46	9.73	8.66	18.38	12.64	29.97	17.33
5500	7.43	7.32	14.76	11.69	23.97	12.28	9.64	9.50	19.14	12.82	29.97	17.15
5580	6.77	7.23	14.00	11.46	23.97	12.51	8.78	9.38	18.16	12.59	29.97	17.38
5700	6.09	6.10	12.20	10.86	23.97	13.11	7.90	7.92	15.82	11.99	29.97	17.98
5720	6.83	6.66	13.49	11.30	23.97	12.67	8.86	8.64	17.50	12.43	29.97	17.54
5745	7.30	6.86	14.16	11.51	30.00	18.49	9.47	8.90	18.37	12.64	36.00	23.36
5785	7.85	7.08	14.92	11.74	30.00	18.26	10.18	9.18	19.36	12.87	36.00	23.13
5825	7.14	6.88	14.02	11.47	30.00	18.53	9.27	8.92	18.19	12.60	36.00	23.40

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-13.76	1.91	20.17	1.13	8.32	9.45	-14.37	1.95	20.18	1.13	7.75	8.88
5220	0.00	-13.90	1.91	20.17	1.13	8.18	9.31	-14.39	1.95	20.18	1.13	7.74	8.87
5240	0.00	-13.46	1.91	20.17	1.13	8.61	9.74	-13.81	1.95	20.18	1.13	8.32	9.45
5260	0.00	-13.47	1.91	20.17	1.13	8.61	9.74	-13.90	1.96	20.18	1.13	8.24	9.37
5300	0.00	-13.32	1.91	20.17	1.13	8.76	9.89	-13.94	1.96	20.18	1.13	8.20	9.33
5320	0.00	-13.33	1.91	20.17	1.13	8.75	9.88	-13.90	1.97	20.18	1.13	8.24	9.37
5500	0.00	-13.31	1.94	20.08	1.13	8.71	9.84	-13.49	2.03	20.11	1.13	8.65	9.78
5580	0.00	-13.43	1.93	19.80	1.13	8.30	9.43	-13.32	2.01	19.90	1.13	8.59	9.72
5700	0.00	-13.76	1.91	19.69	1.13	7.85	8.98	-14.04	1.99	19.91	1.13	7.86	8.99
5720	0.00	-13.73	1.91	20.17	1.13	8.35	9.48	-13.92	1.98	20.17	1.13	8.24	9.37
5745	0.00	-13.46	1.93	20.17	1.13	8.63	9.76	-13.81	2.00	20.17	1.13	8.36	9.49
5785	0.00	-13.14	1.92	20.17	1.13	8.95	10.08	-13.66	1.99	20.17	1.13	8.50	9.63
5825	0.00	-13.54	1.91	20.17	1.13	8.54	9.67	-13.77	1.97	20.17	1.13	8.38	9.51

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) <= 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11n-20 (CDD)

[Standard Power mode]

11n-20 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	7.55	6.89	14.44	11.60	23.97	12.37	9.79	8.94	18.73	12.73	29.97	17.24
5220	7.76	7.53	15.28	11.84	23.97	12.13	10.06	9.76	19.83	12.97	29.97	17.00
5240	7.88	7.04	14.92	11.74	23.97	12.23	10.22	9.14	19.36	12.87	29.97	17.10
5260	7.38	6.70	14.08	11.49	23.97	12.48	9.58	8.69	18.27	12.62	29.97	17.35
5300	7.52	6.42	13.93	11.44	23.97	12.53	9.75	8.32	18.07	12.57	29.97	17.40
5320	7.24	6.30	13.54	11.32	23.97	12.65	9.40	8.17	17.57	12.45	29.97	17.52
5500	7.64	7.26	14.90	11.73	23.97	12.24	9.91	9.41	19.32	12.86	29.97	17.11
5580	6.75	7.13	13.89	11.43	23.97	12.54	8.76	9.25	18.01	12.56	29.97	17.41
5700	6.09	6.12	12.21	10.87	23.97	13.10	7.90	7.94	15.84	12.00	29.97	17.97
5720	6.63	6.33	12.96	11.13	23.97	12.84	8.60	8.21	16.82	12.26	29.97	17.71
5745	7.40	6.85	14.25	11.54	30.00	18.46	9.60	8.88	18.48	12.67	36.00	23.33
5785	7.76	7.11	14.87	11.72	30.00	18.28	10.06	9.23	19.29	12.85	36.00	23.15
5825	7.33	6.91	14.24	11.53	30.00	18.47	9.50	8.97	18.47	12.66	36.00	23.34

5G_CH0								5G_CH1							
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		e.i.r.p.	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]		
5180	0.00	-13.30	1.91	20.17	1.13	8.78	9.91	-13.74	1.95	20.18	1.13	8.38	9.51		
5220	0.00	-13.18	1.91	20.17	1.13	8.90	10.03	-13.36	1.95	20.18	1.13	8.77	9.90		
5240	0.00	-13.11	1.91	20.17	1.13	8.96	10.09	-13.65	1.95	20.18	1.13	8.48	9.61		
5260	0.00	-13.40	1.91	20.17	1.13	8.68	9.81	-13.88	1.96	20.18	1.13	8.26	9.39		
5300	0.00	-13.32	1.91	20.17	1.13	8.76	9.89	-14.07	1.96	20.18	1.13	8.07	9.20		
5320	0.00	-13.48	1.91	20.17	1.13	8.60	9.73	-14.15	1.97	20.18	1.13	7.99	9.12		
5500	0.00	-13.19	1.94	20.08	1.13	8.83	9.96	-13.53	2.03	20.11	1.13	8.61	9.74		
5580	0.00	-13.44	1.93	19.80	1.13	8.29	9.42	-13.38	2.01	19.90	1.13	8.53	9.66		
5700	0.00	-13.76	1.91	19.69	1.13	7.85	8.98	-14.03	1.99	19.91	1.13	7.87	9.00		
5720	0.00	-13.86	1.91	20.17	1.13	8.22	9.35	-14.14	1.98	20.17	1.13	8.02	9.15		
5745	0.00	-13.40	1.93	20.17	1.13	8.69	9.82	-13.82	2.00	20.17	1.13	8.35	9.48		
5785	0.00	-13.19	1.92	20.17	1.13	8.90	10.03	-13.64	1.99	20.17	1.13	8.52	9.65		
5825	0.00	-13.43	1.91	20.17	1.13	8.65	9.78	-13.75	1.97	20.17	1.13	8.40	9.53		

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11n-20 (SDM)

[Standard Power mode]

11n-20 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	6.62	5.87	12.49	10.96	23.97	13.01	7.44	7.61	15.06	11.78	29.97	18.19
5220	6.35	5.64	11.99	10.79	23.97	13.18	7.14	7.32	14.46	11.60	29.97	18.37
5240	7.12	6.51	13.63	11.35	23.97	12.62	8.01	8.45	16.46	12.16	29.97	17.81
5260	7.07	6.40	13.47	11.29	23.97	12.68	7.95	8.30	16.25	12.11	29.97	17.86
5300	7.21	6.21	13.42	11.28	23.97	12.69	8.11	8.06	16.17	12.09	29.97	17.88
5320	7.03	6.31	13.34	11.25	23.97	12.72	7.91	8.19	16.10	12.07	29.97	17.90
5500	7.55	7.46	15.01	11.76	23.97	12.21	8.49	9.68	18.17	12.59	29.97	17.38
5580	6.66	7.23	13.89	11.43	23.97	12.54	7.49	9.38	16.87	12.27	29.97	17.70
5700	5.99	6.03	12.03	10.80	23.97	13.17	6.74	7.83	14.57	11.63	29.97	18.34
5720	6.54	6.33	12.87	11.10	23.97	12.87	7.35	8.21	15.57	11.92	29.97	18.05
5745	7.18	6.78	13.97	11.45	30.00	18.55	8.08	8.80	16.88	12.27	36.00	23.73
5785	7.63	7.10	14.73	11.68	30.00	18.32	8.58	9.20	17.79	12.50	36.00	23.50
5825	7.36	7.02	14.38	11.58	30.00	18.42	8.28	9.11	17.39	12.40	36.00	23.60

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-13.87	1.91	20.17	0.51	8.21	8.72	-14.44	1.95	20.18	1.13	7.68	8.81
5220	0.00	-14.05	1.91	20.17	0.51	8.03	8.54	-14.61	1.95	20.18	1.13	7.52	8.65
5240	0.00	-13.55	1.91	20.17	0.51	8.52	9.03	-13.99	1.95	20.18	1.13	8.14	9.27
5260	0.00	-13.59	1.91	20.17	0.51	8.49	9.00	-14.08	1.96	20.18	1.13	8.06	9.19
5300	0.00	-13.50	1.91	20.17	0.51	8.58	9.09	-14.21	1.96	20.18	1.13	7.93	9.06
5320	0.00	-13.61	1.91	20.17	0.51	8.47	8.98	-14.14	1.97	20.18	1.13	8.00	9.13
5500	0.00	-13.24	1.94	20.08	0.51	8.78	9.29	-13.41	2.03	20.11	1.13	8.73	9.86
5580	0.00	-13.50	1.93	19.80	0.51	8.23	8.74	-13.32	2.01	19.90	1.13	8.59	9.72
5700	0.00	-13.83	1.91	19.69	0.51	7.78	8.29	-14.09	1.99	19.91	1.13	7.81	8.94
5720	0.00	-13.92	1.91	20.17	0.51	8.16	8.67	-14.14	1.98	20.17	1.13	8.02	9.15
5745	0.00	-13.53	1.93	20.17	0.51	8.56	9.07	-13.86	2.00	20.17	1.13	8.31	9.44
5785	0.00	-13.26	1.92	20.17	0.51	8.83	9.34	-13.65	1.99	20.17	1.13	8.51	9.64
5825	0.00	-13.41	1.91	20.17	0.51	8.67	9.18	-13.68	1.97	20.17	1.13	8.47	9.60

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ac-20 (CDD)

[Standard Power mode]

11ac-20 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	6.95	5.98	12.92	11.11	23.97	12.86	9.01	7.75	16.77	12.24	29.97	17.73
5220	6.60	5.76	12.37	10.92	23.97	13.05	8.56	7.48	16.04	12.05	29.97	17.92
5240	7.39	6.82	14.21	11.53	23.97	12.44	9.58	8.85	18.43	12.66	29.97	17.31
5260	7.28	6.65	13.94	11.44	23.97	12.53	9.45	8.63	18.08	12.57	29.97	17.40
5300	7.54	6.42	13.95	11.45	23.97	12.52	9.77	8.32	18.10	12.58	29.97	17.39
5320	7.36	6.51	13.87	11.42	23.97	12.55	9.55	8.44	17.99	12.55	29.97	17.42
5500	7.40	7.21	14.60	11.64	23.97	12.33	9.60	9.35	18.94	12.77	29.97	17.20
5580	6.80	7.05	13.85	11.41	23.97	12.56	8.82	9.15	17.97	12.54	29.97	17.43
5700	6.01	5.87	11.88	10.75	23.97	13.22	7.79	7.61	15.41	11.88	29.97	18.09
5720	6.60	6.19	12.79	11.07	23.97	12.90	8.56	8.03	16.59	12.20	29.97	17.77
5745	7.32	6.89	14.21	11.53	30.00	18.47	9.49	8.94	18.43	12.66	36.00	23.34
5785	7.63	6.93	14.57	11.63	30.00	18.37	9.90	8.99	18.89	12.76	36.00	23.24
5825	7.28	6.99	14.27	11.54	30.00	18.46	9.44	9.07	18.51	12.67	36.00	23.33

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-13.66	1.91	20.17	1.13	8.42	9.55	-14.36	1.95	20.18	1.13	7.76	8.89
5220	0.00	-13.88	1.91	20.17	1.13	8.20	9.33	-14.52	1.95	20.18	1.13	7.61	8.74
5240	0.00	-13.39	1.91	20.17	1.13	8.68	9.81	-13.79	1.95	20.18	1.13	8.34	9.47
5260	0.00	-13.46	1.91	20.17	1.13	8.62	9.75	-13.91	1.96	20.18	1.13	8.23	9.36
5300	0.00	-13.31	1.91	20.17	1.13	8.77	9.90	-14.07	1.96	20.18	1.13	8.07	9.20
5320	0.00	-13.41	1.91	20.17	1.13	8.67	9.80	-14.01	1.97	20.18	1.13	8.13	9.26
5500	0.00	-13.33	1.94	20.08	1.13	8.69	9.82	-13.56	2.03	20.11	1.13	8.58	9.71
5580	0.00	-13.41	1.93	19.80	1.13	8.32	9.45	-13.43	2.01	19.90	1.13	8.48	9.61
5700	0.00	-13.82	1.91	19.69	1.13	7.79	8.92	-14.21	1.99	19.91	1.13	7.69	8.82
5720	0.00	-13.88	1.91	20.17	1.13	8.20	9.33	-14.24	1.98	20.17	1.13	7.92	9.05
5745	0.00	-13.45	1.93	20.17	1.13	8.64	9.77	-13.79	2.00	20.17	1.13	8.38	9.51
5785	0.00	-13.26	1.92	20.17	1.13	8.83	9.96	-13.75	1.99	20.17	1.13	8.41	9.54
5825	0.00	-13.46	1.91	20.17	1.13	8.62	9.75	-13.70	1.97	20.17	1.13	8.45	9.58

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) <= 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 26, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ac-20 (SDM)

[Standard Power mode]

11ac-20 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	6.96	6.00	12.97	11.13	23.97	12.84	7.83	7.79	15.62	11.94	29.97	18.03
5220	6.51	5.80	12.31	10.90	23.97	13.07	7.32	7.53	14.85	11.72	29.97	18.25
5240	7.32	6.71	14.03	11.47	23.97	12.50	8.23	8.71	16.94	12.29	29.97	17.68
5260	7.44	6.70	14.13	11.50	23.97	12.47	8.36	8.69	17.05	12.32	29.97	17.65
5300	7.52	6.58	14.10	11.49	23.97	12.48	8.45	8.54	16.99	12.30	29.97	17.67
5320	7.23	6.37	13.60	11.34	23.97	12.63	8.13	8.27	16.39	12.15	29.97	17.82
5500	7.40	7.31	14.70	11.67	23.97	12.30	8.32	9.48	17.80	12.50	29.97	17.47
5580	6.86	7.07	13.93	11.44	23.97	12.53	7.71	9.17	16.88	12.28	29.97	17.69
5700	6.11	5.97	12.07	10.82	23.97	13.15	6.87	7.74	14.61	11.65	29.97	18.32
5720	6.53	6.38	12.90	11.11	23.97	12.86	7.34	8.27	15.61	11.93	29.97	18.04
5745	7.49	6.86	14.35	11.57	30.00	18.43	8.42	8.90	17.32	12.39	36.00	23.61
5785	7.81	7.13	14.94	11.74	30.00	18.26	8.78	9.25	18.03	12.56	36.00	23.44
5825	7.50	6.88	14.38	11.58	30.00	18.42	8.43	8.92	17.36	12.39	36.00	23.61

		5G_CH0						5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-13.65	1.91	20.17	0.51	8.43	8.94	-14.34	1.95	20.18	1.13	7.78	8.91
5220	0.00	-13.94	1.91	20.17	0.51	8.14	8.65	-14.49	1.95	20.18	1.13	7.64	8.77
5240	0.00	-13.43	1.91	20.17	0.51	8.64	9.15	-13.86	1.95	20.18	1.13	8.27	9.40
5260	0.00	-13.37	1.91	20.17	0.51	8.71	9.22	-13.88	1.96	20.18	1.13	8.26	9.39
5300	0.00	-13.32	1.91	20.17	0.51	8.76	9.27	-13.96	1.96	20.18	1.13	8.18	9.31
5320	0.00	-13.49	1.91	20.17	0.51	8.59	9.10	-14.10	1.97	20.18	1.13	8.04	9.17
5500	0.00	-13.33	1.94	20.08	0.51	8.69	9.20	-13.50	2.03	20.11	1.13	8.64	9.77
5580	0.00	-13.37	1.93	19.80	0.51	8.36	8.87	-13.42	2.01	19.90	1.13	8.49	9.62
5700	0.00	-13.75	1.91	19.69	0.51	7.86	8.37	-14.14	1.99	19.91	1.13	7.76	8.89
5720	0.00	-13.93	1.91	20.17	0.51	8.15	8.66	-14.11	1.98	20.17	1.13	8.05	9.18
5745	0.00	-13.35	1.93	20.17	0.51	8.74	9.25	-13.81	2.00	20.17	1.13	8.36	9.49
5785	0.00	-13.16	1.92	20.17	0.51	8.93	9.44	-13.63	1.99	20.17	1.13	8.53	9.66
5825	0.00	-13.33	1.91	20.17	0.51	8.75	9.26	-13.77	1.97	20.17	1.13	8.38	9.51

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (20.763 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 27, 2023
Temperature / Humidity 25 deg. C / 44 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDM) (CDD)

[Standard Power mode]

11ax-20 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	6.92	6.06	12.98	11.13	23.97	12.84	8.97	7.86	16.83	12.26	29.97	17.71
5220	6.59	5.87	12.46	10.95	23.97	13.02	8.54	7.61	16.16	12.08	29.97	17.89
5240	7.51	6.88	14.39	11.58	23.97	12.39	9.74	8.93	18.67	12.71	29.97	17.26
5260	7.28	6.58	13.86	11.42	23.97	12.55	9.45	8.53	17.98	12.55	29.97	17.42
5300	7.48	6.40	13.88	11.43	23.97	12.54	9.71	8.30	18.01	12.56	29.97	17.41
5320	7.38	6.45	13.83	11.41	23.97	12.56	9.57	8.36	17.93	12.54	29.97	17.43
5500	7.48	7.31	14.79	11.70	23.97	12.27	9.71	9.48	19.19	12.83	29.97	17.14
5580	6.92	6.99	13.91	11.43	23.97	12.54	8.98	9.07	18.05	12.56	29.97	17.41
5700	5.98	6.03	12.02	10.80	23.97	13.17	7.76	7.83	15.59	11.93	29.97	18.04
5720	6.68	6.45	13.13	11.18	23.97	12.79	8.66	8.37	17.03	12.31	29.97	17.66
5745	7.45	7.00	14.46	11.60	30.00	18.40	9.67	9.09	18.75	12.73	36.00	23.27
5785	7.76	7.10	14.85	11.72	30.00	18.28	10.06	9.20	19.26	12.85	36.00	23.15
5825	7.39	7.14	14.53	11.62	30.00	18.38	9.59	9.26	18.85	12.75	36.00	23.25

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-13.68	1.91	20.17	1.13	8.40	9.53	-14.30	1.95	20.18	1.13	7.82	8.95
5220	0.00	-13.89	1.91	20.17	1.13	8.19	9.32	-14.44	1.95	20.18	1.13	7.69	8.82
5240	0.00	-13.32	1.91	20.17	1.13	8.75	9.88	-13.75	1.95	20.18	1.13	8.38	9.51
5260	0.00	-13.46	1.91	20.17	1.13	8.62	9.75	-13.96	1.96	20.18	1.13	8.18	9.31
5300	0.00	-13.34	1.91	20.17	1.13	8.74	9.87	-14.08	1.96	20.18	1.13	8.06	9.19
5320	0.00	-13.40	1.91	20.17	1.13	8.68	9.81	-14.05	1.97	20.18	1.13	8.09	9.22
5500	0.00	-13.28	1.94	20.08	1.13	8.74	9.87	-13.50	2.03	20.11	1.13	8.64	9.77
5580	0.00	-13.33	1.93	19.80	1.13	8.40	9.53	-13.47	2.01	19.90	1.13	8.44	9.57
5700	0.00	-13.84	1.91	19.69	1.13	7.77	8.90	-14.09	1.99	19.91	1.13	7.81	8.94
5720	0.00	-13.83	1.91	20.17	1.13	8.25	9.38	-14.06	1.98	20.17	1.13	8.10	9.23
5745	0.00	-13.37	1.93	20.17	1.13	8.72	9.85	-13.72	2.00	20.17	1.13	8.45	9.58
5785	0.00	-13.19	1.92	20.17	1.13	8.90	10.03	-13.65	1.99	20.17	1.13	8.51	9.64
5825	0.00	-13.39	1.91	20.17	1.13	8.69	9.82	-13.61	1.97	20.17	1.13	8.54	9.67

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (21.869 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 27, 2023
Temperature / Humidity 25 deg. C / 44 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDM) (SDM)

[Standard Power mode]

11ax-20 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	5G_CH0	Antenna	Sum	Result	Limit	Margin	5G_CH0	5G_CH1	Sum	Result	Limit	Margin
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	7.00	6.07	13.07	11.16	23.97	12.81	7.87	7.88	15.75	11.97	29.97	18.00
5220	6.59	6.05	12.64	11.02	23.97	12.95	7.41	7.85	15.25	11.83	29.97	18.14
5240	7.34	6.82	14.16	11.51	23.97	12.46	8.25	8.85	17.10	12.33	29.97	17.64
5260	7.25	6.76	14.01	11.46	23.97	12.51	8.15	8.77	16.92	12.28	29.97	17.69
5300	7.60	6.58	14.18	11.52	23.97	12.45	8.55	8.54	17.09	12.33	29.97	17.64
5320	7.59	6.49	14.08	11.49	23.97	12.48	8.53	8.42	16.95	12.29	29.97	17.68
5500	7.62	7.34	14.96	11.75	23.97	12.22	0.05	9.52	9.57	9.81	29.97	20.16
5580	6.88	7.20	14.08	11.48	23.97	12.49	0.05	9.34	9.39	9.73	29.97	20.24
5700	6.09	6.10	12.20	10.86	23.97	13.11	6.85	7.92	14.77	11.69	29.97	18.28
5720	6.57	6.30	12.87	11.10	23.97	12.87	7.39	8.18	15.56	11.92	29.97	18.05
5745	7.63	6.99	14.61	11.65	30.00	18.35	8.58	9.07	17.64	12.47	36.00	23.53
5785	7.77	7.05	14.82	11.71	30.00	18.29	8.74	9.14	17.88	12.52	36.00	23.48
5825	7.50	7.15	14.65	11.66	30.00	18.34	8.43	9.28	17.71	12.48	36.00	23.52

5G_CH0							5G_CH1						
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]
5180	0.00	-13.63	1.91	20.17	0.51	8.45	8.96	-14.29	1.95	20.18	1.13	7.83	8.96
5220	0.00	-13.89	1.91	20.17	0.51	8.19	8.70	-14.31	1.95	20.18	1.13	7.82	8.95
5240	0.00	-13.42	1.91	20.17	0.51	8.65	9.16	-13.79	1.95	20.18	1.13	8.34	9.47
5260	0.00	-13.48	1.91	20.17	0.51	8.60	9.11	-13.84	1.96	20.18	1.13	8.30	9.43
5300	0.00	-13.27	1.91	20.17	0.51	8.81	9.32	-13.96	1.96	20.18	1.13	8.18	9.31
5320	0.00	-13.28	1.91	20.17	0.51	8.80	9.31	-14.02	1.97	20.18	1.13	8.12	9.25
5500	0.00	-13.20	1.94	20.08	0.51	8.82	-13.36	-13.48	2.03	20.11	1.13	8.66	9.79
5580	0.00	-13.36	1.93	19.80	0.51	8.37	-13.00	-13.34	2.01	19.90	1.13	8.57	9.70
5700	0.00	-13.76	1.91	19.69	0.51	7.85	8.36	-14.04	1.99	19.91	1.13	7.86	8.99
5720	0.00	-13.90	1.91	20.17	0.51	8.18	8.69	-14.16	1.98	20.17	1.13	8.00	9.13
5745	0.00	-13.27	1.93	20.17	0.51	8.82	9.33	-13.73	2.00	20.17	1.13	8.44	9.57
5785	0.00	-13.18	1.92	20.17	0.51	8.91	9.42	-13.68	1.99	20.17	1.13	8.48	9.61
5825	0.00	-13.33	1.91	20.17	0.51	8.75	9.26	-13.60	1.97	20.17	1.13	8.55	9.68

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (21.869 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (CDD)

[Standard Power mode]

11ax-20 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5260	0	6.80	5.77	12.57	10.99	23.75	12.76	8.83	7.48	16.31	12.12	29.97	17.85
	4	6.05	5.21	11.26	10.52	23.75	13.23	7.85	6.76	14.61	11.65	29.97	18.32
	8	6.79	6.07	12.86	11.09	23.75	12.66	8.81	7.87	16.68	12.22	29.97	17.75
5300	0	6.87	5.76	12.62	11.01	23.75	12.74	8.91	7.47	16.38	12.14	29.97	17.83
	4	6.19	5.18	11.37	10.56	23.75	13.19	8.03	6.72	14.75	11.69	29.97	18.28
	8	6.90	5.95	12.84	11.09	23.75	12.66	8.95	7.72	16.66	12.22	29.97	17.75
5320	0	6.77	5.67	12.44	10.95	23.75	12.80	8.78	7.35	16.14	12.08	29.97	17.89
	4	6.39	5.15	11.54	10.62	23.75	13.13	8.29	6.68	14.97	11.75	29.97	18.22
	8	6.62	5.81	12.43	10.94	23.75	12.81	8.58	7.54	16.12	12.07	29.97	17.90

		5G_CH0						5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5260	0	0.00	-13.76	1.92	20.17	1.13	8.33	9.46	-14.54	1.97	20.18	1.13	7.61	8.74
	4	0.00	-14.27	1.92	20.17	1.13	7.82	8.95	-14.98	1.97	20.18	1.13	7.17	8.30
	8	0.00	-13.77	1.92	20.17	1.13	8.32	9.45	-14.32	1.97	20.18	1.13	7.83	8.96
5300	0	0.00	-13.72	1.92	20.17	1.13	8.37	9.50	-14.55	1.98	20.18	1.13	7.60	8.73
	4	0.00	-14.17	1.92	20.17	1.13	7.92	9.05	-15.01	1.98	20.18	1.13	7.14	8.27
	8	0.00	-13.70	1.92	20.17	1.13	8.39	9.52	-14.41	1.98	20.18	1.13	7.74	8.87
5320	0	0.00	-13.78	1.92	20.17	1.13	8.31	9.44	-14.62	1.98	20.17	1.13	7.54	8.67
	4	0.00	-14.03	1.92	20.17	1.13	8.06	9.19	-15.04	1.98	20.17	1.13	7.12	8.25
	8	0.00	-13.88	1.92	20.17	1.13	8.21	9.34	-14.51	1.98	20.17	1.13	7.65	8.78

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (CDD)

[Standard Power mode]

11ax-20 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5500	0	6.88	6.67	13.56	11.32	23.75	12.43	8.93	8.66	17.58	12.45	29.97	17.52
	4	6.26	6.14	12.41	10.94	23.75	12.81	8.12	7.97	16.09	12.07	29.97	17.90
	8	6.98	6.88	13.85	11.42	23.75	12.33	9.05	8.92	17.97	12.55	29.97	17.42
5580	0	6.31	6.65	12.96	11.13	23.75	12.62	8.18	8.63	16.81	12.26	29.97	17.71
	4	5.78	6.14	11.91	10.76	23.75	12.99	7.49	7.96	15.45	11.89	29.97	18.08
	8	6.31	7.00	13.30	11.24	23.75	12.51	8.18	9.08	17.26	12.37	29.97	17.60
5700	0	5.93	5.57	11.50	10.61	23.75	13.14	7.70	7.22	14.92	11.74	29.97	18.23
	4	5.41	5.07	10.48	10.20	23.75	13.55	7.02	6.57	13.59	11.33	29.97	18.64
	8	5.97	5.91	11.89	10.75	23.75	13.00	7.75	7.67	15.42	11.88	29.97	18.09
5720	0	5.79	5.38	11.17	10.48	23.75	13.27	7.52	6.97	14.49	11.61	29.97	18.36
	4	5.37	5.16	10.53	10.22	23.75	13.53	6.97	6.69	13.66	11.35	29.97	18.62
	8	5.94	5.84	11.78	10.71	23.75	13.04	7.71	7.58	15.28	11.84	29.97	18.13
5745	0	6.77	6.30	13.07	11.16	30.00	18.84	8.79	8.17	16.96	12.29	36.00	23.71
	4	6.12	5.83	11.95	10.77	30.00	19.23	7.94	7.56	15.50	11.90	36.00	24.10
	8	6.96	6.74	13.70	11.37	30.00	18.63	9.03	8.74	17.77	12.50	36.00	23.50
5785	0	7.07	5.99	13.05	11.16	30.00	18.84	9.17	7.76	16.93	12.29	36.00	23.71
	4	6.56	5.69	12.25	10.88	30.00	19.12	8.51	7.38	15.90	12.01	36.00	23.99
	8	7.47	6.61	14.08	11.48	30.00	18.52	9.69	8.57	18.26	12.61	36.00	23.39
5825	0	6.86	6.25	13.11	11.18	30.00	18.82	8.90	8.11	17.01	12.31	36.00	23.69
	4	6.03	5.56	11.59	10.64	30.00	19.36	7.83	7.21	15.03	11.77	36.00	24.23
	8	6.72	6.43	13.15	11.19	30.00	18.81	8.72	8.33	17.05	12.32	36.00	23.68

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.
		[dBm]					[dBm]	[dBm]	[dBm]				[dBm]	[dBm]
5500	0	0.00	-13.73	1.94	20.17	1.13	8.38	9.51	-13.96	2.03	20.17	1.13	8.24	9.37
	4	0.00	-14.14	1.94	20.17	1.13	7.97	9.10	-14.32	2.03	20.17	1.13	7.88	9.01
	8	0.00	-13.67	1.94	20.17	1.13	8.44	9.57	-13.83	2.03	20.17	1.13	8.37	9.50
5580	0	0.00	-14.10	1.93	20.16	1.13	8.00	9.13	-13.96	2.02	20.17	1.13	8.23	9.36
	4	0.00	-14.48	1.93	20.16	1.13	7.62	8.75	-14.31	2.02	20.17	1.13	7.88	9.01
	8	0.00	-14.10	1.93	20.16	1.13	8.00	9.13	-13.74	2.02	20.17	1.13	8.45	9.58
5700	0	0.00	-14.35	1.92	20.16	1.13	7.73	8.86	-14.71	1.99	20.17	1.13	7.46	8.59
	4	0.00	-14.75	1.92	20.16	1.13	7.33	8.46	-15.12	1.99	20.17	1.13	7.05	8.18
	8	0.00	-14.32	1.92	20.16	1.13	7.76	8.89	-14.45	1.99	20.17	1.13	7.72	8.85
5720	0	0.00	-14.45	1.92	20.16	1.13	7.63	8.76	-14.86	1.99	20.17	1.13	7.30	8.43
	4	0.00	-14.78	1.92	20.16	1.13	7.30	8.43	-15.04	1.99	20.17	1.13	7.12	8.25
	8	0.00	-14.34	1.92	20.16	1.13	7.74	8.87	-14.50	1.99	20.17	1.13	7.66	8.79
5745	0	0.00	-13.79	1.94	20.16	1.13	8.31	9.44	-14.19	2.01	20.17	1.13	7.99	9.12
	4	0.00	-14.23	1.94	20.16	1.13	7.87	9.00	-14.53	2.01	20.17	1.13	7.65	8.78
	8	0.00	-13.67	1.94	20.16	1.13	8.43	9.56	-13.90	2.01	20.17	1.13	8.28	9.41
5785	0	0.00	-13.60	1.93	20.16	1.13	8.49	9.62	-14.40	2.00	20.17	1.13	7.77	8.90
	4	0.00	-13.92	1.93	20.16	1.13	8.17	9.30	-14.62	2.00	20.17	1.13	7.55	8.68
	8	0.00	-13.36	1.93	20.16	1.13	8.73	9.86	-13.97	2.00	20.17	1.13	8.20	9.33
5825	0	0.00	-13.72	1.93	20.16	1.13	8.37	9.50	-14.20	1.98	20.17	1.13	7.96	9.09
	4	0.00	-14.28	1.93	20.16	1.13	7.81	8.94	-14.71	1.98	20.17	1.13	7.45	8.58
	8	0.00	-13.81	1.93	20.16	1.13	8.28	9.41	-14.08	1.98	20.17	1.13	8.08	9.21

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) <= 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

* 1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (SDM)

[Standard Power mode]

11ax-20 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5260	0	7.33	6.67	13.99	11.46	23.75	12.29	8.24	8.65	16.89	12.28	29.97	17.69
	4	6.73	6.02	12.75	11.06	23.75	12.69	7.57	7.82	15.38	11.87	29.97	18.10
	8	7.51	6.97	14.48	11.61	23.75	12.14	8.45	9.04	17.48	12.43	29.97	17.54
5300	0	7.61	6.78	14.40	11.58	23.75	12.17	8.56	8.80	17.36	12.40	29.97	17.57
	4	6.96	6.07	13.03	11.15	23.75	12.60	7.83	7.88	15.70	11.96	29.97	18.01
	8	7.46	6.74	14.19	11.52	23.75	12.23	8.39	8.74	17.12	12.34	29.97	17.63
5320	0	7.44	6.85	14.29	11.55	23.75	12.20	8.37	8.88	17.25	12.37	29.97	17.60
	4	6.83	5.81	12.65	11.02	23.75	12.73	7.68	7.54	15.23	11.83	29.97	18.14
	8	7.44	6.63	14.07	11.48	23.75	12.27	8.37	8.60	16.97	12.30	29.97	17.67

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5260	0	0.00	-13.44	1.92	20.17	0.51	8.65	9.16	-13.91	1.97	20.18	1.13	8.24	9.37
	4	0.00	-13.81	1.92	20.17	0.51	8.28	8.79	-14.35	1.97	20.18	1.13	7.80	8.93
	8	0.00	-13.33	1.92	20.17	0.51	8.76	9.27	-13.72	1.97	20.18	1.13	8.43	9.56
5300	0	0.00	-13.27	1.92	20.17	0.51	8.82	9.33	-13.84	1.98	20.18	1.13	8.31	9.44
	4	0.00	-13.66	1.92	20.17	0.51	8.43	8.94	-14.32	1.98	20.18	1.13	7.83	8.96
	8	0.00	-13.36	1.92	20.17	0.51	8.73	9.24	-13.87	1.98	20.18	1.13	8.28	9.41
5320	0	0.00	-13.37	1.92	20.17	0.51	8.72	9.23	-13.80	1.98	20.17	1.13	8.36	9.49
	4	0.00	-13.74	1.92	20.17	0.51	8.35	8.86	-14.51	1.98	20.17	1.13	7.65	8.78
	8	0.00	-13.37	1.92	20.17	0.51	8.72	9.23	-13.94	1.98	20.17	1.13	8.22	9.35

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) = 1 W

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 26-tone RU (SDM)

[Standard Power mode]

11ax-20 (OFDMA)(SDM) 26-tone RU
5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	0	6.88	6.86	13.74	11.38	23.75	12.37	7.74	8.90	16.64	12.21	29.97	17.76		
	4	6.21	6.26	12.46	10.96	23.75	12.79	6.98	8.12	15.09	11.79	29.97	18.18		
	8	6.76	6.73	13.49	11.30	23.75	12.45	7.60	8.74	16.34	12.13	29.97	17.84		
5580	0	6.23	6.84	13.07	11.16	23.75	12.59	7.01	8.87	15.88	12.01	29.97	17.96		
	4	5.42	6.22	11.64	10.66	23.75	13.09	6.09	8.07	14.16	11.51	29.97	18.46		
	8	6.23	7.11	13.34	11.25	23.75	12.50	7.01	9.22	16.23	12.10	29.97	17.87		
5700	0	5.81	5.87	11.68	10.68	23.75	13.07	6.54	7.62	14.15	11.51	29.97	18.46		
	4	5.36	5.17	10.53	10.23	23.75	13.52	6.03	6.71	12.74	11.05	29.97	18.92		
	8	5.92	5.80	11.72	10.69	23.75	13.06	6.66	7.53	14.19	11.52	29.97	18.45		
5720	0	5.74	5.62	11.36	10.55	23.75	13.20	6.46	7.28	13.74	11.38	29.97	18.59		
	4	5.06	5.17	10.23	10.10	23.75	13.65	5.69	6.71	12.39	10.93	29.97	19.04		
	8	5.81	5.79	11.59	10.64	23.75	13.11	6.53	7.51	14.04	11.47	29.97	18.50		
5745	0	6.76	6.37	13.13	11.18	30.00	18.82	7.60	8.27	15.87	12.00	36.00	24.00		
	4	6.85	6.40	13.25	11.22	30.00	18.78	7.71	8.31	16.01	12.04	36.00	23.96		
	8	6.77	6.58	13.36	11.26	30.00	18.74	7.62	8.54	16.16	12.08	36.00	23.92		
5785	0	7.20	6.46	13.66	11.35	30.00	18.65	8.09	8.38	16.47	12.17	36.00	23.83		
	4	6.53	5.90	12.44	10.95	30.00	19.05	7.35	7.66	15.01	11.76	36.00	24.24		
	8	7.38	6.50	13.88	11.43	30.00	18.57	8.30	8.44	16.74	12.24	36.00	23.76		
5825	0	6.63	6.22	12.85	11.09	30.00	18.91	7.46	8.07	15.53	11.91	36.00	24.09		
	4	6.03	5.69	11.72	10.69	30.00	19.31	6.78	7.38	14.16	11.51	36.00	24.49		
	8	6.75	6.54	13.30	11.24	30.00	18.76	7.59	8.49	16.08	12.06	36.00	23.94		

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1)	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	0	0.00	-13.73	1.94	20.17	0.51	8.38	8.89	-13.84	2.03	20.17	1.13	8.36	9.49	
	4	0.00	-14.18	1.94	20.17	0.51	7.93	8.44	-14.24	2.03	20.17	1.13	7.96	9.09	
	8	0.00	-13.81	1.94	20.17	0.51	8.30	8.81	-13.92	2.03	20.17	1.13	8.28	9.41	
5580	0	0.00	-14.15	1.93	20.16	0.51	7.95	8.46	-13.84	2.02	20.17	1.13	8.35	9.48	
	4	0.00	-14.76	1.93	20.16	0.51	7.34	7.85	-14.25	2.02	20.17	1.13	7.94	9.07	
	8	0.00	-14.15	1.93	20.16	0.51	7.95	8.46	-13.67	2.02	20.17	1.13	8.52	9.65	
5700	0	0.00	-14.44	1.92	20.16	0.51	7.64	8.15	-14.48	1.99	20.17	1.13	7.69	8.82	
	4	0.00	-14.79	1.92	20.16	0.51	7.29	7.80	-15.03	1.99	20.17	1.13	7.14	8.27	
	8	0.00	-14.36	1.92	20.16	0.51	7.72	8.23	-14.53	1.99	20.17	1.13	7.64	8.77	
5720	0	0.00	-14.49	1.92	20.16	0.51	7.59	8.10	-14.67	1.99	20.17	1.13	7.49	8.62	
	4	0.00	-15.04	1.92	20.16	0.51	7.04	7.55	-15.03	1.99	20.17	1.13	7.13	8.26	
	8	0.00	-14.44	1.92	20.16	0.51	7.64	8.15	-14.54	1.99	20.17	1.13	7.62	8.75	
5745	0	0.00	-13.80	1.94	20.16	0.51	8.30	8.81	-14.14	2.01	20.17	1.13	8.04	9.17	
	4	0.00	-13.74	1.94	20.16	0.51	8.36	8.87	-14.12	2.01	20.17	1.13	8.06	9.19	
	8	0.00	-13.79	1.94	20.16	0.51	8.31	8.82	-14.00	2.01	20.17	1.13	8.18	9.31	
5785	0	0.00	-13.52	1.93	20.16	0.51	8.57	9.08	-14.07	2.00	20.17	1.13	8.10	9.23	
	4	0.00	-13.94	1.93	20.16	0.51	8.15	8.66	-14.46	2.00	20.17	1.13	7.71	8.84	
	8	0.00	-13.41	1.93	20.16	0.51	8.68	9.19	-14.04	2.00	20.17	1.13	8.13	9.26	
5825	0	0.00	-13.87	1.93	20.16	0.51	8.22	8.73	-14.22	1.98	20.17	1.13	7.94	9.07	
	4	0.00	-14.28	1.93	20.16	0.51	7.81	8.32	-14.61	1.98	20.17	1.13	7.55	8.68	
	8	0.00	-13.79	1.93	20.16	0.51	8.30	8.81	-14.00	1.98	20.17	1.13	8.16	9.29	

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) = 1 W

For all test frequencies, B was applied the minimum value (18.844 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (CDD)

[Standard Power mode]

11ax-20 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5260	37	7.24	6.53	13.77	11.39	23.90	12.51	9.39	8.47	17.86	12.52	29.97	17.45
	38	6.79	6.11	12.90	11.11	23.90	12.79	8.81	7.92	16.73	12.24	29.97	17.73
	40	7.09	6.46	13.55	11.32	23.90	12.58	9.20	8.37	17.58	12.45	29.97	17.52
5300	37	7.22	6.29	13.51	11.31	23.90	12.59	9.37	8.15	17.52	12.44	29.97	17.53
	38	7.03	5.91	12.93	11.12	23.90	12.78	9.11	7.66	16.77	12.25	29.97	17.72
	40	7.41	6.58	13.99	11.46	23.90	12.44	9.61	8.54	18.15	12.59	29.97	17.38
5320	37	7.19	6.16	13.35	11.25	23.90	12.65	9.32	7.99	17.31	12.38	29.97	17.59
	38	6.60	6.03	12.63	11.02	23.90	12.88	8.56	7.83	16.39	12.15	29.97	17.82
	40	7.07	6.23	13.30	11.24	23.90	12.66	9.17	8.08	17.26	12.37	29.97	17.60

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5260	37	0.00	-13.49	1.92	20.17	1.13	8.60	9.73	-14.00	1.97	20.18	1.13	8.15	9.28
	38	0.00	-13.77	1.92	20.17	1.13	8.32	9.45	-14.29	1.97	20.18	1.13	7.86	8.99
	40	0.00	-13.58	1.92	20.17	1.13	8.51	9.64	-14.05	1.97	20.18	1.13	8.10	9.23
5300	37	0.00	-13.50	1.92	20.17	1.13	8.59	9.72	-14.17	1.98	20.18	1.13	7.98	9.11
	38	0.00	-13.62	1.92	20.17	1.13	8.47	9.60	-14.44	1.98	20.18	1.13	7.71	8.84
	40	0.00	-13.39	1.92	20.17	1.13	8.70	9.83	-13.97	1.98	20.18	1.13	8.18	9.31
5320	37	0.00	-13.52	1.92	20.17	1.13	8.57	9.70	-14.26	1.98	20.17	1.13	7.90	9.03
	38	0.00	-13.89	1.92	20.17	1.13	8.20	9.33	-14.35	1.98	20.17	1.13	7.81	8.94
	40	0.00	-13.59	1.92	20.17	1.13	8.50	9.63	-14.21	1.98	20.17	1.13	7.95	9.08

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (CDD)

[Standard Power mode]

11ax-20 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	37	7.58	7.28	14.87	11.72	23.90	12.18		9.84	9.45	19.28	12.85	29.97	17.12	
	38	7.14	6.77	13.91	11.43	23.90	12.47		9.26	8.78	18.04	12.56	29.97	17.41	
	40	7.44	6.99	14.43	11.59	23.90	12.31		9.66	9.06	18.72	12.72	29.97	17.25	
5580	37	7.12	6.87	13.99	11.46	23.90	12.44		9.24	8.91	18.15	12.59	29.97	17.38	
	38	6.84	7.18	14.01	11.46	23.90	12.44		8.87	9.31	18.18	12.59	29.97	17.38	
	40	7.14	6.92	14.06	11.48	23.90	12.42		9.26	8.97	18.24	12.61	29.97	17.36	
5700	37	6.76	6.19	12.96	11.12	23.90	12.78		8.78	8.03	16.81	12.25	29.97	17.72	
	38	6.37	6.12	12.49	10.97	23.90	12.93		8.27	7.94	16.20	12.10	29.97	17.87	
	40	6.64	6.26	12.90	11.11	23.90	12.79		8.61	8.12	16.74	12.24	29.97	17.73	
5720	37	6.61	6.06	12.67	11.03	23.90	12.87		8.57	7.86	16.43	12.16	29.97	17.81	
	38	6.17	5.92	12.09	10.82	23.90	13.08		8.00	7.68	15.68	11.95	29.97	18.02	
	40	6.62	6.42	13.04	11.15	23.90	12.75		8.59	8.33	16.92	12.28	29.97	17.69	
5745	37	6.45	5.96	12.41	10.94	30.00	19.06		8.37	7.73	16.10	12.07	36.00	23.93	
	38	6.06	5.71	11.77	10.71	30.00	19.29		7.87	7.40	15.27	11.84	36.00	24.16	
	40	6.35	6.00	12.35	10.92	30.00	19.08		8.24	7.79	16.02	12.05	36.00	23.95	
5785	37	6.89	5.97	12.86	11.09	30.00	18.91		8.94	7.75	16.68	12.22	36.00	23.78	
	38	6.50	5.89	12.39	10.93	30.00	19.07		8.44	7.64	16.08	12.06	36.00	23.94	
	40	7.10	6.28	13.38	11.26	30.00	18.74		9.21	8.15	17.36	12.39	36.00	23.61	
5825	37	6.54	6.09	12.63	11.01	30.00	18.99		8.48	7.90	16.39	12.14	36.00	23.86	
	38	5.90	5.65	11.54	10.62	30.00	19.38		7.65	7.33	14.97	11.75	36.00	24.25	
	40	6.38	6.19	12.57	10.99	30.00	19.01		8.27	8.03	16.30	12.12	36.00	23.88	

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		e.i.r.p.
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	37	0.00	-13.31	1.94	20.17	1.13	8.80	9.93	-13.58	2.03	20.17	1.13	8.62	9.75	
	38	0.00	-13.57	1.94	20.17	1.13	8.54	9.67	-13.90	2.03	20.17	1.13	8.30	9.43	
	40	0.00	-13.39	1.94	20.17	1.13	8.72	9.85	-13.76	2.03	20.17	1.13	8.44	9.57	
5580	37	0.00	-13.57	1.93	20.16	1.13	8.53	9.66	-13.82	2.02	20.17	1.13	8.37	9.50	
	38	0.00	-13.75	1.93	20.16	1.13	8.35	9.48	-13.63	2.02	20.17	1.13	8.56	9.69	
	40	0.00	-13.56	1.93	20.16	1.13	8.54	9.67	-13.79	2.02	20.17	1.13	8.40	9.53	
5700	37	0.00	-13.78	1.92	20.16	1.13	8.30	9.43	-14.25	1.99	20.17	1.13	7.92	9.05	
	38	0.00	-14.04	1.92	20.16	1.13	8.04	9.17	-14.30	1.99	20.17	1.13	7.87	9.00	
	40	0.00	-13.86	1.92	20.16	1.13	8.22	9.35	-14.20	1.99	20.17	1.13	7.97	9.10	
5720	37	0.00	-13.88	1.92	20.16	1.13	8.20	9.33	-14.34	1.99	20.17	1.13	7.82	8.95	
	38	0.00	-14.18	1.92	20.16	1.13	7.90	9.03	-14.44	1.99	20.17	1.13	7.72	8.85	
	40	0.00	-13.87	1.92	20.16	1.13	8.21	9.34	-14.09	1.99	20.17	1.13	8.07	9.20	
5745	37	0.00	-14.00	1.94	20.16	1.13	8.10	9.23	-14.43	2.01	20.17	1.13	7.75	8.88	
	38	0.00	-14.27	1.94	20.16	1.13	7.83	8.96	-14.62	2.01	20.17	1.13	7.56	8.69	
	40	0.00	-14.07	1.94	20.16	1.13	8.03	9.16	-14.40	2.01	20.17	1.13	7.78	8.91	
5785	37	0.00	-13.71	1.93	20.16	1.13	8.38	9.51	-14.41	2.00	20.17	1.13	7.76	8.89	
	38	0.00	-13.96	1.93	20.16	1.13	8.13	9.26	-14.47	2.00	20.17	1.13	7.70	8.83	
	40	0.00	-13.58	1.93	20.16	1.13	8.51	9.64	-14.19	2.00	20.17	1.13	7.98	9.11	
5825	37	0.00	-13.93	1.93	20.16	1.13	8.16	9.29	-14.31	1.98	20.17	1.13	7.85	8.98	
	38	0.00	-14.38	1.93	20.16	1.13	7.71	8.84	-14.64	1.98	20.17	1.13	7.52	8.65	
	40	0.00	-14.04	1.93	20.16	1.13	8.05	9.18	-14.24	1.98	20.17	1.13	7.92	9.05	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) <= 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (SDM)

[Standard Power mode]

11ax-20 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5260	37	7.46	6.61	14.07	11.48	23.90	12.42	8.39	8.57	16.96	12.29	29.97	17.68
	38	7.01	6.38	13.39	11.27	23.90	12.63	7.89	8.28	16.16	12.09	29.97	17.88
	40	7.46	6.74	14.21	11.52	23.90	12.38	8.39	8.75	17.14	12.34	29.97	17.63
5300	37	7.77	6.46	14.24	11.53	23.90	12.37	8.74	8.38	17.12	12.34	29.97	17.63
	38	7.29	6.30	13.59	11.33	23.90	12.57	8.20	8.17	16.37	12.14	29.97	17.83
	40	7.81	6.46	14.27	11.54	23.90	12.36	8.78	8.38	17.17	12.35	29.97	17.62
5320	37	7.44	6.49	13.93	11.44	23.90	12.46	8.37	8.42	16.79	12.25	29.97	17.72
	38	6.96	6.03	12.99	11.14	23.90	12.76	7.83	7.83	15.65	11.95	29.97	18.02
	40	7.34	6.42	13.76	11.39	23.90	12.51	8.25	8.33	16.58	12.20	29.97	17.77

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5260	37	0.00	-13.36	1.92	20.17	0.51	8.73	9.24	-13.95	1.97	20.18	1.13	8.20	9.33
	38	0.00	-13.63	1.92	20.17	0.51	8.46	8.97	-14.10	1.97	20.18	1.13	8.05	9.18
	40	0.00	-13.36	1.92	20.17	0.51	8.73	9.24	-13.86	1.97	20.18	1.13	8.29	9.42
5300	37	0.00	-13.18	1.92	20.17	0.51	8.91	9.42	-14.05	1.98	20.18	1.13	8.10	9.23
	38	0.00	-13.46	1.92	20.17	0.51	8.63	9.14	-14.16	1.98	20.18	1.13	7.99	9.12
	40	0.00	-13.16	1.92	20.17	0.51	8.93	9.44	-14.05	1.98	20.18	1.13	8.10	9.23
5320	37	0.00	-13.37	1.92	20.17	0.51	8.72	9.23	-14.03	1.98	20.17	1.13	8.13	9.26
	38	0.00	-13.66	1.92	20.17	0.51	8.43	8.94	-14.35	1.98	20.17	1.13	7.81	8.94
	40	0.00	-13.43	1.92	20.17	0.51	8.66	9.17	-14.08	1.98	20.17	1.13	8.08	9.21

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) = 1 W

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 18, 2024
Temperature / Humidity 23 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-20 (OFDMA) 52-tone RU (SDM)

[Standard Power mode]

11ax-20 (OFDMA)(SDM) 52-tone RU
5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	37	7.60	7.04	14.64	11.65	23.90	12.25	8.55	9.13	17.67	12.47	29.97	17.50		
	38	7.39	6.89	14.28	11.55	23.90	12.35	8.31	8.94	17.25	12.37	29.97	17.60		
	40	7.69	7.32	15.00	11.76	23.90	12.14	8.65	9.49	18.14	12.59	29.97	17.38		
5580	37	7.32	7.43	14.75	11.69	23.90	12.21	8.24	9.64	17.87	12.52	29.97	17.45		
	38	7.06	7.19	14.25	11.54	23.90	12.36	7.94	9.33	17.27	12.37	29.97	17.60		
	40	7.39	7.57	14.96	11.75	23.90	12.15	8.31	9.82	18.13	12.58	29.97	17.39		
5700	37	6.92	6.28	13.20	11.21	23.90	12.69	7.78	8.14	15.93	12.02	29.97	17.95		
	38	6.37	6.01	12.38	10.93	23.90	12.97	7.17	7.79	14.96	11.75	29.97	18.22		
	40	6.80	6.44	13.23	11.22	23.90	12.68	7.64	8.35	15.99	12.04	29.97	17.93		
5720	37	6.70	6.27	12.97	11.13	23.90	12.77	7.53	8.14	15.67	11.95	29.97	18.02		
	38	6.44	5.99	12.43	10.95	23.90	12.95	7.24	7.77	15.01	11.77	29.97	18.20		
	40	6.73	6.52	13.25	11.22	23.90	12.68	7.57	8.46	16.03	12.05	29.97	17.92		
5745	37	7.43	6.88	14.30	11.55	30.00	18.45	8.35	8.92	17.27	12.37	36.00	23.63		
	38	7.09	6.58	13.67	11.36	30.00	18.64	7.98	8.54	16.51	12.18	36.00	23.82		
	40	7.56	7.18	14.75	11.69	30.00	18.31	8.51	9.32	17.83	12.51	36.00	23.49		
5785	37	7.73	7.00	14.73	11.68	30.00	18.32	8.69	9.08	17.77	12.50	36.00	23.50		
	38	7.57	6.81	14.38	11.58	30.00	18.42	8.51	8.83	17.35	12.39	36.00	23.61		
	40	7.91	7.30	15.21	11.82	30.00	18.18	8.89	9.47	18.36	12.64	36.00	23.36		
5825	37	7.61	7.03	14.64	11.66	30.00	18.34	8.56	9.12	17.68	12.47	36.00	23.53		
	38	7.14	6.71	13.85	11.41	30.00	18.59	8.03	8.71	16.73	12.24	36.00	23.76		
	40	7.58	7.08	14.65	11.66	30.00	18.34	8.52	9.18	17.70	12.48	36.00	23.52		

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1)	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	37	0.00	-13.30	1.94	20.17	0.51	8.81	9.32	-13.73	2.03	20.17	1.13	8.47	9.60	
	38	0.00	-13.42	1.94	20.17	0.51	8.69	9.20	-13.82	2.03	20.17	1.13	8.38	9.51	
	40	0.00	-13.25	1.94	20.17	0.51	8.86	9.37	-13.56	2.03	20.17	1.13	8.64	9.77	
5580	37	0.00	-13.45	1.93	20.16	0.51	8.65	9.16	-13.48	2.02	20.17	1.13	8.71	9.84	
	38	0.00	-13.61	1.93	20.16	0.51	8.49	9.00	-13.62	2.02	20.17	1.13	8.57	9.70	
	40	0.00	-13.41	1.93	20.16	0.51	8.69	9.20	-13.40	2.02	20.17	1.13	8.79	9.92	
5700	37	0.00	-13.68	1.92	20.16	0.51	8.40	8.91	-14.19	1.99	20.17	1.13	7.98	9.11	
	38	0.00	-14.04	1.92	20.16	0.51	8.04	8.55	-14.38	1.99	20.17	1.13	7.79	8.92	
	40	0.00	-13.76	1.92	20.16	0.51	8.32	8.83	-14.08	1.99	20.17	1.13	8.09	9.22	
5720	37	0.00	-13.82	1.92	20.16	0.51	8.26	8.77	-14.19	1.99	20.17	1.13	7.97	9.10	
	38	0.00	-13.99	1.92	20.16	0.51	8.09	8.60	-14.39	1.99	20.17	1.13	7.77	8.90	
	40	0.00	-13.80	1.92	20.16	0.51	8.28	8.79	-14.02	1.99	20.17	1.13	8.14	9.27	
5745	37	0.00	-13.39	1.94	20.16	0.51	8.71	9.22	-13.81	2.01	20.17	1.13	8.37	9.50	
	38	0.00	-13.59	1.94	20.16	0.51	8.51	9.02	-14.00	2.01	20.17	1.13	8.18	9.31	
	40	0.00	-13.31	1.94	20.16	0.51	8.79	9.30	-13.62	2.01	20.17	1.13	8.56	9.69	
5785	37	0.00	-13.21	1.93	20.16	0.51	8.88	9.39	-13.72	2.00	20.17	1.13	8.45	9.58	
	38	0.00	-13.30	1.93	20.16	0.51	8.79	9.30	-13.84	2.00	20.17	1.13	8.33	9.46	
	40	0.00	-13.11	1.93	20.16	0.51	8.98	9.49	-13.54	2.00	20.17	1.13	8.63	9.76	
5825	37	0.00	-13.27	1.93	20.16	0.51	8.82	9.33	-13.69	1.98	20.17	1.13	8.47	9.60	
	38	0.00	-13.55	1.93	20.16	0.51	8.54	9.05	-13.89	1.98	20.17	1.13	8.27	9.40	
	40	0.00	-13.29	1.93	20.16	0.51	8.80	9.31	-13.66	1.98	20.17	1.13	8.50	9.63	

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) = 1 W

For all test frequencies, B was applied the minimum value (19.500 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date August 1, 2023
Temperature / Humidity 24 deg. C / 55 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDMA) 106-tone RU (CDD)

[Standard Power mode]

11ax-20 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	53	7.02	5.99	13.00	11.14	23.97	12.83	9.10	7.77	16.87	12.27	29.97	17.70
	54	6.73	5.88	12.61	11.01	23.97	12.96	8.73	7.62	16.36	12.14	29.97	17.83
5220	53	6.70	5.88	12.58	11.00	23.97	12.97	8.69	7.63	16.32	12.13	29.97	17.84
	54	6.75	5.89	12.64	11.02	23.97	12.95	8.75	7.64	16.40	12.15	29.97	17.82
5240	53	7.39	6.69	14.09	11.49	23.97	12.48	9.59	8.68	18.28	12.62	29.97	17.35
	54	7.38	6.50	13.88	11.42	23.97	12.55	9.57	8.43	18.00	12.55	29.97	17.42
5260	53	7.33	6.58	13.90	11.43	23.97	12.54	9.50	8.53	18.03	12.56	29.97	17.41
	54	7.33	6.68	14.01	11.46	23.97	12.51	9.50	8.67	18.17	12.59	29.97	17.38
5300	53	7.69	6.46	14.15	11.51	23.97	12.46	9.97	8.38	18.35	12.64	29.97	17.33
	54	7.61	6.42	14.03	11.47	23.97	12.50	9.88	8.32	18.20	12.60	29.97	17.37
5320	53	7.34	6.36	13.70	11.37	23.97	12.60	9.52	8.25	17.77	12.50	29.97	17.47
	54	7.35	6.29	13.64	11.35	23.97	12.62	9.54	8.16	17.70	12.48	29.97	17.49

5G_CH0									5G_CH1					
Tested Frequency	RU Index	Duty	Power	Cable	Atten.	Directional	Result		Power	Cable	Atten.	Directional	Result	
		Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.
		*1)	Reading					Power	Reading				Power	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	53	0.00	-13.62	1.91	20.17	1.13	8.46	9.59	-14.36	1.96	20.18	1.13	7.77	8.90
	54	0.00	-13.80	1.91	20.17	1.13	8.28	9.41	-14.44	1.96	20.18	1.13	7.69	8.82
5220	53	0.00	-13.82	1.91	20.17	1.13	8.26	9.39	-14.44	1.96	20.18	1.13	7.69	8.82
	54	0.00	-13.79	1.91	20.17	1.13	8.29	9.42	-14.43	1.96	20.18	1.13	7.70	8.83
5240	53	0.00	-13.39	1.91	20.17	1.13	8.69	9.82	-13.88	1.96	20.18	1.13	8.26	9.39
	54	0.00	-13.40	1.91	20.17	1.13	8.68	9.81	-14.01	1.96	20.18	1.13	8.13	9.26
5260	53	0.00	-13.44	1.92	20.17	1.13	8.65	9.78	-13.97	1.97	20.18	1.13	8.18	9.31
	54	0.00	-13.44	1.92	20.17	1.13	8.65	9.78	-13.90	1.97	20.18	1.13	8.25	9.38
5300	53	0.00	-13.23	1.92	20.17	1.13	8.86	9.99	-14.05	1.98	20.18	1.13	8.10	9.23
	54	0.00	-13.27	1.92	20.17	1.13	8.82	9.95	-14.08	1.98	20.18	1.13	8.07	9.20
5320	53	0.00	-13.43	1.92	20.17	1.13	8.66	9.79	-14.12	1.98	20.17	1.13	8.04	9.17
	54	0.00	-13.42	1.92	20.17	1.13	8.67	9.80	-14.17	1.98	20.17	1.13	7.99	9.12

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date August 1, 2023
Temperature / Humidity 24 deg. C / 55 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-20 (OFDMA) 106-tone RU (CDD)

[Standard Power mode]

11ax-20 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5500	53	7.78	7.30	15.08	11.78	23.97	12.19		10.09	9.47	19.56	12.91	29.97	17.06	
	54	7.81	7.47	15.28	11.84	23.97	12.13		10.13	9.69	19.82	12.97	29.97	17.00	
5580	53	7.38	7.43	14.80	11.70	23.97	12.27		9.57	9.64	19.20	12.83	29.97	17.14	
	54	7.36	7.58	14.94	11.74	23.97	12.23		9.54	9.84	19.38	12.87	29.97	17.10	
5700	53	6.76	6.28	13.04	11.15	23.97	12.82		8.78	8.14	16.92	12.28	29.97	17.69	
	54	6.81	6.39	13.21	11.21	23.97	12.76		8.84	8.29	17.13	12.34	29.97	17.63	
5720	53	6.44	6.19	12.63	11.01	23.97	12.96		8.36	8.02	16.38	12.14	29.97	17.83	
	54	6.55	6.36	12.91	11.11	23.97	12.86		8.49	8.25	16.74	12.24	29.97	17.73	
5745	53	6.53	6.29	12.81	11.08	30.00	18.92		8.47	8.15	16.62	12.21	36.00	23.79	
	54	6.56	6.30	12.86	11.09	30.00	18.91		8.51	8.17	16.68	12.22	36.00	23.78	
5785	53	7.05	6.13	13.17	11.20	30.00	18.80		9.14	7.95	17.09	12.33	36.00	23.67	
	54	7.02	6.34	13.36	11.26	30.00	18.74		9.10	8.22	17.33	12.39	36.00	23.61	
5825	53	6.57	6.08	12.65	11.02	30.00	18.98		8.52	7.89	16.41	12.15	36.00	23.85	
	54	6.52	6.12	12.65	11.02	30.00	18.98		8.46	7.94	16.40	12.15	36.00	23.85	

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5500	53	0.00	-13.20	1.94	20.17	1.13	8.91	10.04	-13.57	2.03	20.17	1.13	8.63	9.76	
	54	0.00	-13.18	1.94	20.17	1.13	8.93	10.06	-13.47	2.03	20.17	1.13	8.73	9.86	
5580	53	0.00	-13.42	1.93	20.16	1.13	8.68	9.81	-13.48	2.02	20.17	1.13	8.71	9.84	
	54	0.00	-13.43	1.93	20.16	1.13	8.67	9.80	-13.39	2.02	20.17	1.13	8.80	9.93	
5700	53	0.00	-13.78	1.92	20.16	1.13	8.30	9.43	-14.19	1.99	20.17	1.13	7.98	9.11	
	54	0.00	-13.75	1.92	20.16	1.13	8.33	9.46	-14.11	1.99	20.17	1.13	8.06	9.19	
5720	53	0.00	-13.99	1.92	20.16	1.13	8.09	9.22	-14.25	1.99	20.17	1.13	7.91	9.04	
	54	0.00	-13.92	1.92	20.16	1.13	8.16	9.29	-14.13	1.99	20.17	1.13	8.03	9.16	
5745	53	0.00	-13.95	1.94	20.16	1.13	8.15	9.28	-14.20	2.01	20.17	1.13	7.98	9.11	
	54	0.00	-13.93	1.94	20.16	1.13	8.17	9.30	-14.19	2.01	20.17	1.13	7.99	9.12	
5785	53	0.00	-13.61	1.93	20.16	1.13	8.48	9.61	-14.30	2.00	20.17	1.13	7.87	9.00	
	54	0.00	-13.63	1.93	20.16	1.13	8.46	9.59	-14.15	2.00	20.17	1.13	8.02	9.15	
5825	53	0.00	-13.91	1.93	20.16	1.13	8.18	9.31	-14.32	1.98	20.17	1.13	7.84	8.97	
	54	0.00	-13.94	1.93	20.16	1.13	8.15	9.28	-14.29	1.98	20.17	1.13	7.87	9.00	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)
For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 106-tone RU (SDM)

[Standard Power mode]

11ax-20 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	53	6.91	6.33	13.23	11.22	23.97	12.75	7.77	8.21	15.97	12.03	29.97	17.94
	54	6.89	6.24	13.13	11.18	23.97	12.79	7.75	8.09	15.84	12.00	29.97	17.97
5220	53	6.61	6.23	12.84	11.08	23.97	12.89	7.43	8.08	15.51	11.91	29.97	18.06
	54	6.67	6.04	12.71	11.04	23.97	12.93	7.50	7.84	15.34	11.86	29.97	18.11
5240	53	7.26	6.99	14.25	11.54	23.97	12.43	8.16	9.07	17.24	12.36	29.97	17.61
	54	7.43	7.06	14.49	11.61	23.97	12.36	8.35	9.16	17.51	12.43	29.97	17.54
5260	53	7.26	7.09	14.35	11.57	23.97	12.40	8.16	9.20	17.37	12.40	29.97	17.57
	54	7.22	7.03	14.25	11.54	23.97	12.43	8.13	9.12	17.24	12.37	29.97	17.60
5300	53	7.46	6.83	14.29	11.55	23.97	12.42	8.39	8.86	17.25	12.37	29.97	17.60
	54	7.41	6.74	14.14	11.51	23.97	12.46	8.33	8.74	17.07	12.32	29.97	17.65
5320	53	7.25	6.75	14.01	11.46	23.97	12.51	8.16	8.76	16.92	12.28	29.97	17.69
	54	7.65	6.72	14.37	11.57	23.97	12.40	8.60	8.72	17.32	12.39	29.97	17.58

Tested Frequency [MHz]	RU Index	Duty Factor *1) [dB]	5G_CH0						5G_CH1					
			Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	53	0.00	-13.69	1.91	20.17	0.51	8.39	8.90	-14.12	1.96	20.18	1.13	8.01	9.14
	54	0.00	-13.70	1.91	20.17	0.51	8.38	8.89	-14.18	1.96	20.18	1.13	7.95	9.08
5220	53	0.00	-13.88	1.91	20.17	0.51	8.20	8.71	-14.19	1.96	20.18	1.13	7.94	9.07
	54	0.00	-13.84	1.91	20.17	0.51	8.24	8.75	-14.32	1.96	20.18	1.13	7.81	8.94
5240	53	0.00	-13.47	1.91	20.17	0.51	8.61	9.12	-13.69	1.96	20.18	1.13	8.45	9.58
	54	0.00	-13.37	1.91	20.17	0.51	8.71	9.22	-13.65	1.96	20.18	1.13	8.49	9.62
5260	53	0.00	-13.48	1.92	20.17	0.51	8.61	9.12	-13.64	1.97	20.18	1.13	8.51	9.64
	54	0.00	-13.50	1.92	20.17	0.51	8.59	9.10	-13.68	1.97	20.18	1.13	8.47	9.60
5300	53	0.00	-13.36	1.92	20.17	0.51	8.73	9.24	-13.81	1.98	20.18	1.13	8.34	9.47
	54	0.00	-13.39	1.92	20.17	0.51	8.70	9.21	-13.87	1.98	20.18	1.13	8.28	9.41
5320	53	0.00	-13.48	1.92	20.17	0.51	8.61	9.12	-13.86	1.98	20.17	1.13	8.30	9.43
	54	0.00	-13.25	1.92	20.17	0.51	8.84	9.35	-13.88	1.98	20.17	1.13	8.28	9.41

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 106-tone RU (SDM)

[Standard Power mode]

11ax-20 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5500	53	7.06	7.59	14.65	11.66	23.97	12.31	7.94	9.85	17.79	12.50	29.97	17.47
	54	7.11	7.50	14.61	11.65	23.97	12.32	7.99	9.73	17.73	12.49	29.97	17.48
5580	53	6.47	7.60	14.07	11.48	23.97	12.49	7.27	9.86	17.13	12.34	29.97	17.63
	54	6.45	7.57	14.02	11.47	23.97	12.50	7.26	9.82	17.07	12.32	29.97	17.65
5700	53	6.51	6.77	13.28	11.23	23.97	12.74	7.32	8.79	16.10	12.07	29.97	17.90
	54	6.45	6.70	13.14	11.19	23.97	12.78	7.25	8.69	15.93	12.02	29.97	17.95
5720	53	6.34	6.60	12.94	11.12	23.97	12.85	7.13	8.56	15.69	11.96	29.97	18.01
	54	6.40	6.48	12.87	11.10	23.97	12.87	7.19	8.40	15.60	11.93	29.97	18.04
5745	53	6.84	7.10	13.94	11.44	30.00	18.56	7.69	9.21	16.90	12.28	36.00	23.72
	54	6.91	7.35	14.27	11.54	30.00	18.46	7.78	9.54	17.31	12.38	36.00	23.62
5785	53	7.50	7.36	14.87	11.72	30.00	18.28	8.44	9.55	17.99	12.55	36.00	23.45
	54	7.48	7.38	14.87	11.72	30.00	18.28	8.42	9.57	17.99	12.55	36.00	23.45
5825	53	7.14	7.28	14.41	11.59	30.00	18.41	8.03	9.44	17.46	12.42	36.00	23.58
	54	7.15	7.50	14.65	11.66	30.00	18.34	8.04	9.72	17.77	12.50	36.00	23.50

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.
							[dBm]	[dBm]					[dBm]	[dBm]
5500	53	0.00	-13.62	1.94	20.17	0.51	8.49	9.00	-13.40	2.03	20.17	1.13	8.80	9.93
	54	0.00	-13.59	1.94	20.17	0.51	8.52	9.03	-13.45	2.03	20.17	1.13	8.75	9.88
5580	53	0.00	-13.99	1.93	20.16	0.51	8.11	8.62	-13.38	2.02	20.17	1.13	8.81	9.94
	54	0.00	-14.00	1.93	20.16	0.51	8.10	8.61	-13.40	2.02	20.17	1.13	8.79	9.92
5700	53	0.00	-13.95	1.92	20.16	0.51	8.13	8.64	-13.86	1.99	20.17	1.13	8.31	9.44
	54	0.00	-13.99	1.92	20.16	0.51	8.09	8.60	-13.91	1.99	20.17	1.13	8.26	9.39
5720	53	0.00	-14.06	1.92	20.16	0.51	8.02	8.53	-13.97	1.99	20.17	1.13	8.19	9.32
	54	0.00	-14.02	1.92	20.16	0.51	8.06	8.57	-14.05	1.99	20.17	1.13	8.11	9.24
5745	53	0.00	-13.75	1.94	20.16	0.51	8.35	8.86	-13.67	2.01	20.17	1.13	8.51	9.64
	54	0.00	-13.70	1.94	20.16	0.51	8.40	8.91	-13.52	2.01	20.17	1.13	8.66	9.79
5785	53	0.00	-13.34	1.93	20.16	0.51	8.75	9.26	-13.50	2.00	20.17	1.13	8.67	9.80
	54	0.00	-13.35	1.93	20.16	0.51	8.74	9.25	-13.49	2.00	20.17	1.13	8.68	9.81
5825	53	0.00	-13.55	1.93	20.16	0.51	8.54	9.05	-13.54	1.98	20.17	1.13	8.62	9.75
	54	0.00	-13.54	1.93	20.16	0.51	8.55	9.06	-13.41	1.98	20.17	1.13	8.75	9.88

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) = 1 W

For all test frequencies, B was applied the minimum value (20.612 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 30, 2024
Temperature / Humidity 22 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 242-tone RU (CDD)

[Standard Power mode]

11ax-20 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	61	6.86	6.14	13.00	11.14	23.97	12.83	8.90	7.96	16.86	12.27	29.97	17.70
5220	61	6.52	6.16	12.67	11.03	23.97	12.94	8.45	7.99	16.44	12.16	29.97	17.81
5240	61	7.16	6.87	14.03	11.47	23.97	12.50	9.29	8.91	18.20	12.60	29.97	17.37
5260	61	7.21	6.79	14.00	11.46	23.97	12.51	9.35	8.81	18.16	12.59	29.97	17.38
5300	61	7.42	6.78	14.21	11.52	23.97	12.45	9.63	8.80	18.43	12.65	29.97	17.32
5320	61	7.06	6.46	13.52	11.31	23.97	12.66	9.15	8.39	17.54	12.44	29.97	17.53
5500	61	6.80	7.37	14.17	11.51	23.97	12.46	8.83	9.56	18.38	12.64	29.97	17.33
5580	61	6.93	7.36	14.29	11.55	23.97	12.42	8.99	9.55	18.54	12.68	29.97	17.29
5700	61	6.42	6.54	12.96	11.13	23.97	12.84	8.32	8.49	16.81	12.26	29.97	17.71
5720	61	6.43	6.46	12.89	11.10	23.97	12.87	8.34	8.38	16.72	12.23	29.97	17.74
5745	61	6.91	7.12	14.03	11.47	30.00	18.53	8.97	9.23	18.20	12.60	36.00	23.40
5785	61	7.62	7.25	14.87	11.72	30.00	18.28	9.89	9.40	19.29	12.85	36.00	23.15
5825	61	7.14	7.51	14.65	11.66	30.00	18.34	9.26	9.75	19.01	12.79	36.00	23.21

			5G_CH0							5G_CH1						
Tested	RU	Duty	Power	Cable	Atten.	Directional	Result		Power	Cable	Atten.	Directional	Result			
Frequency	Index	Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.		
		*1)	Reading				Power		Reading				Power			
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]		
5180	61	0.00	-13.72	1.91	20.17	1.13	8.36	9.49	-14.25	1.96	20.18	1.13	7.88	9.01		
5220	61	0.00	-13.94	1.91	20.17	1.13	8.14	9.27	-14.24	1.96	20.18	1.13	7.89	9.02		
5240	61	0.00	-13.53	1.91	20.17	1.13	8.55	9.68	-13.77	1.96	20.18	1.13	8.37	9.50		
5260	61	0.00	-13.51	1.92	20.17	1.13	8.58	9.71	-13.83	1.97	20.18	1.13	8.32	9.45		
5300	61	0.00	-13.38	1.92	20.17	1.13	8.71	9.84	-13.84	1.98	20.18	1.13	8.31	9.44		
5320	61	0.00	-13.60	1.92	20.17	1.13	8.49	9.62	-14.05	1.98	20.17	1.13	8.11	9.24		
5500	61	0.00	-13.78	1.94	20.17	1.13	8.33	9.46	-13.53	2.03	20.17	1.13	8.67	9.80		
5580	61	0.00	-13.69	1.93	20.16	1.13	8.41	9.54	-13.52	2.02	20.17	1.13	8.67	9.80		
5700	61	0.00	-14.01	1.92	20.16	1.13	8.07	9.20	-14.01	1.99	20.17	1.13	8.16	9.29		
5720	61	0.00	-14.00	1.92	20.16	1.13	8.08	9.21	-14.06	1.99	20.17	1.13	8.10	9.23		
5745	61	0.00	-13.70	1.94	20.16	1.13	8.40	9.53	-13.66	2.01	20.17	1.13	8.52	9.65		
5785	61	0.00	-13.27	1.93	20.16	1.13	8.82	9.95	-13.57	2.00	20.17	1.13	8.60	9.73		
5825	61	0.00	-13.55	1.93	20.16	1.13	8.54	9.67	-13.40	1.98	20.17	1.13	8.76	9.89		

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (21.580 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20 (OFDMA) 242-tone RU (SDM)

[Standard Power mode]

11ax-20 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5180	61	6.99	6.33	13.31	11.24	23.97	12.73	7.86	8.21	16.06	12.06	29.97	17.91
5220	61	6.53	6.10	12.63	11.02	23.97	12.95	7.35	7.91	15.26	11.84	29.97	18.13
5240	61	7.21	7.03	14.24	11.53	23.97	12.44	8.11	9.11	17.22	12.36	29.97	17.61
5260	61	7.13	7.11	14.24	11.53	23.97	12.44	8.01	9.22	17.24	12.36	29.97	17.61
5300	61	7.22	6.81	14.03	11.47	23.97	12.50	8.12	8.84	16.96	12.29	29.97	17.68
5320	61	7.19	6.71	13.89	11.43	23.97	12.54	8.08	8.70	16.78	12.25	29.97	17.72
5500	61	6.91	7.50	14.42	11.59	23.97	12.38	7.78	9.73	17.51	12.43	29.97	17.54
5580	61	6.29	7.64	13.93	11.44	23.97	12.53	7.08	9.91	16.98	12.30	29.97	17.67
5700	61	6.30	6.76	13.06	11.16	23.97	12.81	7.08	8.77	15.85	12.00	29.97	17.97
5720	61	6.35	6.60	12.95	11.12	23.97	12.85	7.14	8.56	15.70	11.96	29.97	18.01
5745	61	6.85	7.37	14.22	11.53	30.00	18.47	7.71	9.56	17.26	12.37	36.00	23.63
5785	61	7.54	7.31	14.85	11.72	30.00	18.28	8.48	9.49	17.96	12.54	36.00	23.46
5825	61	7.09	7.39	14.48	11.61	30.00	18.39	7.97	9.59	17.56	12.45	36.00	23.55

5G_CH0														
Tested Frequency [MHz]	Tested Frequency [MHz]	Duty Factor *1) [dB]	Power					5G_CH1					Result	
			Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5180	61	0.00	-13.64	1.91	20.17	0.51	8.44	8.95	-14.12	1.96	20.18	1.13	8.01	9.14
5220	61	0.00	-13.93	1.91	20.17	0.51	8.15	8.66	-14.28	1.96	20.18	1.13	7.85	8.98
5240	61	0.00	-13.50	1.91	20.17	0.51	8.58	9.09	-13.67	1.96	20.18	1.13	8.47	9.60
5260	61	0.00	-13.56	1.92	20.17	0.51	8.53	9.04	-13.63	1.97	20.18	1.13	8.52	9.65
5300	61	0.00	-13.50	1.92	20.17	0.51	8.59	9.10	-13.82	1.98	20.18	1.13	8.33	9.46
5320	61	0.00	-13.52	1.92	20.17	0.51	8.57	9.08	-13.89	1.98	20.17	1.13	8.27	9.40
5500	61	0.00	-13.71	1.94	20.17	0.51	8.40	8.91	-13.45	2.03	20.17	1.13	8.75	9.88
5580	61	0.00	-14.11	1.93	20.16	0.51	7.99	8.50	-13.36	2.02	20.17	1.13	8.83	9.96
5700	61	0.00	-14.09	1.92	20.16	0.51	7.99	8.50	-13.87	1.99	20.17	1.13	8.30	9.43
5720	61	0.00	-14.05	1.92	20.16	0.51	8.03	8.54	-13.97	1.99	20.17	1.13	8.19	9.32
5745	61	0.00	-13.74	1.94	20.16	0.51	8.36	8.87	-13.51	2.01	20.17	1.13	8.67	9.80
5785	61	0.00	-13.32	1.93	20.16	0.51	8.77	9.28	-13.53	2.00	20.17	1.13	8.64	9.77
5825	61	0.00	-13.58	1.93	20.16	0.51	8.51	9.02	-13.47	1.98	20.17	1.13	8.69	9.82

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (21.580 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11n-40 (CDD)

[Standard Power mode]

11n-40 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	5G_CH0	5G_CH1	Sum	Result	Limit	Margin	5G_CH0	5G_CH1	Sum	Result	Limit	Margin
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	6.51	5.84	12.35	10.92	23.97	13.05	8.45	7.58	16.03	12.05	29.97	17.92
5230	6.42	5.69	12.11	10.83	23.97	13.14	8.33	7.38	15.70	11.96	29.97	18.01
5270	6.99	6.59	13.58	11.33	23.97	12.64	9.06	8.55	17.61	12.46	29.97	17.51
5310	7.08	6.40	13.48	11.30	23.97	12.67	9.18	8.30	17.49	12.43	29.97	17.54
5510	7.49	7.13	14.62	11.65	23.97	12.32	9.72	9.25	18.97	12.78	29.97	17.19
5550	6.78	7.08	13.86	11.42	23.97	12.55	8.79	9.19	17.98	12.55	29.97	17.42
5670	6.49	6.38	12.87	11.10	23.97	12.87	8.42	8.27	16.69	12.23	29.97	17.74
5710	6.57	6.18	12.75	11.05	23.97	12.92	8.53	8.01	16.54	12.18	29.97	17.79
5755	7.21	7.16	14.38	11.58	30.00	18.42	9.36	9.29	18.65	12.71	36.00	23.29
5795	7.61	7.34	14.95	11.75	30.00	18.25	9.87	9.52	19.39	12.88	36.00	23.12

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	0.00	-13.94	1.91	20.17	1.13	8.14	9.27	-14.46	1.95	20.18	1.13	7.67	8.80
5230	0.00	-14.00	1.91	20.17	1.13	8.08	9.21	-14.58	1.95	20.18	1.13	7.55	8.68
5270	0.00	-13.64	1.91	20.17	1.13	8.44	9.57	-13.95	1.96	20.18	1.13	8.19	9.32
5310	0.00	-13.58	1.91	20.17	1.13	8.50	9.63	-14.08	1.97	20.18	1.13	8.06	9.19
5510	0.00	-13.38	1.96	20.17	1.13	8.75	9.88	-13.69	2.05	20.17	1.13	8.53	9.66
5550	0.00	-13.81	1.95	20.17	1.13	8.31	9.44	-13.71	2.04	20.17	1.13	8.50	9.63
5670	0.00	-13.98	1.94	20.17	1.13	8.12	9.25	-14.14	2.01	20.17	1.13	8.05	9.18
5710	0.00	-13.92	1.93	20.17	1.13	8.18	9.31	-14.27	2.00	20.17	1.13	7.91	9.04
5755	0.00	-13.55	1.97	20.17	1.13	8.58	9.71	-13.66	2.04	20.17	1.13	8.55	9.68
5795	0.00	-13.31	1.96	20.17	1.13	8.81	9.94	-13.54	2.02	20.17	1.13	8.66	9.79

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11n-40 (SDM)

[Standard Power mode]

11n-40 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna	Antenna	Sum	Result	Limit	Margin	Antenna	Antenna	Sum	Result	Limit	Margin
[MHz]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]	[dBm]	[dB]
5190	6.90	5.76	12.66	11.02	23.97	12.95	7.76	7.47	15.23	11.83	29.97	18.14
5230	6.63	5.61	12.24	10.88	23.97	13.09	7.46	7.27	14.73	11.68	29.97	18.29
5270	7.15	6.28	13.43	11.28	23.97	12.69	8.04	8.15	16.19	12.09	29.97	17.88
5310	7.08	6.27	13.35	11.25	23.97	12.72	7.96	8.13	16.10	12.07	29.97	17.90
5510	7.49	7.16	14.66	11.66	23.97	12.31	8.43	9.29	17.72	12.48	29.97	17.49
5550	6.95	6.95	13.91	11.43	23.97	12.54	7.82	9.02	16.84	12.26	29.97	17.71
5670	6.55	6.39	12.94	11.12	23.97	12.85	7.37	8.29	15.66	11.95	29.97	18.02
5710	6.56	6.29	12.85	11.09	23.97	12.88	7.37	8.16	15.54	11.91	29.97	18.06
5755	7.43	7.18	14.61	11.65	30.00	18.35	8.36	9.31	17.67	12.47	36.00	23.53
5795	7.66	7.17	14.84	11.71	30.00	18.29	8.62	9.30	17.92	12.53	36.00	23.47

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	0.00	-13.69	1.91	20.17	0.51	8.39	8.90	-14.52	1.95	20.18	1.13	7.61	8.74
5230	0.00	-13.86	1.91	20.17	0.51	8.22	8.73	-14.64	1.95	20.18	1.13	7.49	8.62
5270	0.00	-13.54	1.91	20.17	0.51	8.54	9.05	-14.16	1.96	20.18	1.13	7.98	9.11
5310	0.00	-13.58	1.91	20.17	0.51	8.50	9.01	-14.17	1.97	20.18	1.13	7.97	9.10
5510	0.00	-13.38	1.96	20.17	0.51	8.75	9.26	-13.67	2.05	20.17	1.13	8.55	9.68
5550	0.00	-13.70	1.95	20.17	0.51	8.42	8.93	-13.79	2.04	20.17	1.13	8.42	9.55
5670	0.00	-13.94	1.94	20.17	0.51	8.16	8.67	-14.13	2.01	20.17	1.13	8.06	9.19
5710	0.00	-13.93	1.93	20.17	0.51	8.17	8.68	-14.19	2.00	20.17	1.13	7.99	9.12
5755	0.00	-13.42	1.97	20.17	0.51	8.71	9.22	-13.65	2.04	20.17	1.13	8.56	9.69
5795	0.00	-13.28	1.96	20.17	0.51	8.84	9.35	-13.64	2.02	20.17	1.13	8.56	9.69

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-40 (CDD)

[Standard Power mode]

11ac-40 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	6.87	5.72	12.59	11.00	23.97	12.97	8.91	7.42	16.33	12.13	29.97	17.84
5230	6.52	5.69	12.21	10.87	23.97	13.10	8.46	7.38	15.84	12.00	29.97	17.97
5270	7.05	6.58	13.63	11.34	23.97	12.63	9.15	8.53	17.68	12.47	29.97	17.50
5310	7.15	6.23	13.37	11.26	23.97	12.71	9.27	8.08	17.35	12.39	29.97	17.58
5510	7.37	7.03	14.41	11.59	23.97	12.38	9.56	9.12	18.69	12.72	29.97	17.25
5550	6.84	6.76	13.60	11.34	23.97	12.63	8.87	8.77	17.65	12.47	29.97	17.50
5670	6.48	6.35	12.82	11.08	23.97	12.89	8.40	8.23	16.63	12.21	29.97	17.76
5710	6.48	6.13	12.62	11.01	23.97	12.96	8.41	7.96	16.37	12.14	29.97	17.83
5755	7.08	7.15	14.23	11.53	30.00	18.47	9.19	9.27	18.46	12.66	36.00	23.34
5795	7.52	7.20	14.73	11.68	30.00	18.32	9.76	9.35	19.11	12.81	36.00	23.19

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	0.00	-13.71	1.91	20.17	1.13	8.37	9.50	-14.55	1.95	20.18	1.13	7.58	8.71
5230	0.00	-13.93	1.91	20.17	1.13	8.15	9.28	-14.58	1.95	20.18	1.13	7.55	8.68
5270	0.00	-13.60	1.91	20.17	1.13	8.48	9.61	-13.96	1.96	20.18	1.13	8.18	9.31
5310	0.00	-13.54	1.91	20.17	1.13	8.54	9.67	-14.20	1.97	20.18	1.13	7.94	9.07
5510	0.00	-13.45	1.96	20.17	1.13	8.68	9.81	-13.75	2.05	20.17	1.13	8.47	9.60
5550	0.00	-13.77	1.95	20.17	1.13	8.35	9.48	-13.91	2.04	20.17	1.13	8.30	9.43
5670	0.00	-13.99	1.94	20.17	1.13	8.11	9.24	-14.16	2.01	20.17	1.13	8.03	9.16
5710	0.00	-13.98	1.93	20.17	1.13	8.12	9.25	-14.30	2.00	20.17	1.13	7.88	9.01
5755	0.00	-13.63	1.97	20.17	1.13	8.50	9.63	-13.67	2.04	20.17	1.13	8.54	9.67
5795	0.00	-13.36	1.96	20.17	1.13	8.76	9.89	-13.62	2.02	20.17	1.13	8.58	9.71

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-40 (SDM)

[Standard Power mode]

11ac-40 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	6.82	5.77	12.59	11.00	23.97	12.97	7.67	7.49	15.16	11.81	29.97	18.16
5230	6.24	5.60	11.84	10.73	23.97	13.24	7.02	7.26	14.28	11.55	29.97	18.42
5270	7.23	6.37	13.60	11.34	23.97	12.63	8.13	8.26	16.39	12.15	29.97	17.82
5310	7.53	6.18	13.72	11.37	23.97	12.60	8.47	8.02	16.50	12.17	29.97	17.80
5510	7.49	7.05	14.54	11.63	23.97	12.34	8.43	9.14	17.57	12.45	29.97	17.52
5550	7.10	6.97	14.07	11.48	23.97	12.49	7.98	9.04	17.02	12.31	29.97	17.66
5670	6.43	6.23	12.66	11.03	23.97	12.94	7.23	8.08	15.32	11.85	29.97	18.12
5710	6.57	6.35	12.92	11.11	23.97	12.86	7.39	8.24	15.63	11.94	29.97	18.03
5755	7.21	7.21	14.42	11.59	30.00	18.41	8.11	9.35	17.47	12.42	36.00	23.58
5795	7.52	7.11	14.63	11.65	30.00	18.35	8.46	9.22	17.68	12.47	36.00	23.53

		5G_CH0						5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	0.00	-13.74	1.91	20.17	0.51	8.34	8.85	-14.51	1.95	20.18	1.13	7.62	8.75
5230	0.00	-14.12	1.91	20.17	0.51	7.96	8.47	-14.65	1.95	20.18	1.13	7.48	8.61
5270	0.00	-13.49	1.91	20.17	0.51	8.59	9.10	-14.10	1.96	20.18	1.13	8.04	9.17
5310	0.00	-13.31	1.91	20.17	0.51	8.77	9.28	-14.23	1.97	20.18	1.13	7.91	9.04
5510	0.00	-13.38	1.96	20.17	0.51	8.75	9.26	-13.74	2.05	20.17	1.13	8.48	9.61
5550	0.00	-13.61	1.95	20.17	0.51	8.51	9.02	-13.78	2.04	20.17	1.13	8.43	9.56
5670	0.00	-14.02	1.94	20.17	0.51	8.08	8.59	-14.24	2.01	20.17	1.13	7.95	9.08
5710	0.00	-13.92	1.93	20.17	0.51	8.18	8.69	-14.15	2.00	20.17	1.13	8.03	9.16
5755	0.00	-13.55	1.97	20.17	0.51	8.58	9.09	-13.63	2.04	20.17	1.13	8.58	9.71
5795	0.00	-13.36	1.96	20.17	0.51	8.76	9.27	-13.68	2.02	20.17	1.13	8.52	9.65

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (44.511 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-40 (OFDM) (CDD)

[Standard Power mode]

11ax-40 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	6.98	5.91	12.89	11.10	23.97	12.87	9.05	7.67	16.72	12.23	29.97	17.74
5230	6.27	5.62	11.89	10.75	23.97	13.22	8.14	7.29	15.43	11.88	29.97	18.09
5270	7.30	6.75	14.05	11.48	23.97	12.49	9.47	8.75	18.22	12.61	29.97	17.36
5310	7.26	6.58	13.84	11.41	23.97	12.56	9.42	8.54	17.96	12.54	29.97	17.43
5510	7.49	7.31	14.81	11.70	23.97	12.27	9.72	9.49	19.21	12.83	29.97	17.14
5550	6.98	6.99	13.97	11.45	23.97	12.52	9.06	9.06	18.12	12.58	29.97	17.39
5670	6.75	6.63	13.38	11.27	23.97	12.70	8.76	8.60	17.36	12.40	29.97	17.57
5710	6.68	6.38	13.06	11.16	23.97	12.81	8.66	8.27	16.94	12.29	29.97	17.68
5755	7.16	7.24	14.41	11.59	30.00	18.41	9.29	9.40	18.69	12.72	36.00	23.28
5795	7.65	7.30	14.95	11.75	30.00	18.25	9.92	9.48	19.39	12.88	36.00	23.12

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-13.64	1.91	20.17	1.13	8.44	9.57	-14.41	1.95	20.18	1.13	7.72	8.85
5230	0.00	-14.10	1.91	20.17	1.13	7.98	9.11	-14.63	1.95	20.18	1.13	7.50	8.63
5270	0.00	-13.45	1.91	20.17	1.13	8.63	9.76	-13.85	1.96	20.18	1.13	8.29	9.42
5310	0.00	-13.47	1.91	20.17	1.13	8.61	9.74	-13.96	1.97	20.18	1.13	8.18	9.31
5510	0.00	-13.38	1.96	20.17	1.13	8.75	9.88	-13.58	2.05	20.17	1.13	8.64	9.77
5550	0.00	-13.68	1.95	20.17	1.13	8.44	9.57	-13.77	2.04	20.17	1.13	8.44	9.57
5670	0.00	-13.81	1.94	20.17	1.13	8.29	9.42	-13.97	2.01	20.17	1.13	8.22	9.35
5710	0.00	-13.85	1.93	20.17	1.13	8.25	9.38	-14.13	2.00	20.17	1.13	8.05	9.18
5755	0.00	-13.58	1.97	20.17	1.13	8.55	9.68	-13.61	2.04	20.17	1.13	8.60	9.73
5795	0.00	-13.29	1.96	20.17	1.13	8.83	9.96	-13.56	2.02	20.17	1.13	8.64	9.77

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (43.281 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-40 (OFDM) (SDM)

[Standard Power mode]

11ax-40 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	6.82	5.91	12.73	11.05	23.97	12.92	7.67	7.67	15.34	11.86	29.97	18.11
5230	6.52	5.85	12.37	10.92	23.97	13.05	7.34	7.58	14.92	11.74	29.97	18.23
5270	7.28	6.61	13.89	11.43	23.97	12.54	8.19	8.57	16.76	12.24	29.97	17.73
5310	7.43	6.27	13.70	11.37	23.97	12.60	8.36	8.13	16.49	12.17	29.97	17.80
5510	7.58	7.31	14.89	11.73	23.97	12.24	8.52	9.49	18.01	12.56	29.97	17.41
5550	7.25	7.21	14.46	11.60	23.97	12.37	8.15	9.36	17.51	12.43	29.97	17.54
5670	6.69	6.48	13.17	11.20	23.97	12.77	7.52	8.41	15.93	12.02	29.97	17.95
5710	6.59	6.33	12.92	11.11	23.97	12.86	7.41	8.22	15.63	11.94	29.97	18.03
5755	7.33	7.36	14.69	11.67	30.00	18.33	8.24	9.55	17.79	12.50	36.00	23.50
5795	7.68	7.42	15.10	11.79	30.00	18.21	8.64	9.63	18.27	12.62	36.00	23.38

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-13.74	1.91	20.17	0.51	8.34	8.85	-14.41	1.95	20.18	1.13	7.72	8.85
5230	0.00	-13.93	1.91	20.17	0.51	8.15	8.66	-14.46	1.95	20.18	1.13	7.67	8.80
5270	0.00	-13.46	1.91	20.17	0.51	8.62	9.13	-13.94	1.96	20.18	1.13	8.20	9.33
5310	0.00	-13.37	1.91	20.17	0.51	8.71	9.22	-14.17	1.97	20.18	1.13	7.97	9.10
5510	0.00	-13.33	1.96	20.17	0.51	8.80	9.31	-13.58	2.05	20.17	1.13	8.64	9.77
5550	0.00	-13.52	1.95	20.17	0.51	8.60	9.11	-13.63	2.04	20.17	1.13	8.58	9.71
5670	0.00	-13.85	1.94	20.17	0.51	8.25	8.76	-14.07	2.01	20.17	1.13	8.12	9.25
5710	0.00	-13.91	1.93	20.17	0.51	8.19	8.70	-14.16	2.00	20.17	1.13	8.02	9.15
5755	0.00	-13.48	1.97	20.17	0.51	8.65	9.16	-13.54	2.04	20.17	1.13	8.67	9.80
5795	0.00	-13.27	1.96	20.17	0.51	8.85	9.36	-13.49	2.02	20.17	1.13	8.71	9.84

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (43.281 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 24, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-40 (OFDMA) 26-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5270	0	7.41	6.47	13.88	11.42	23.97	12.55	9.61	8.40	18.01	12.55	29.97	17.42
	8	7.16	6.37	13.53	11.31	23.97	12.66	9.29	8.26	17.55	12.44	29.97	17.53
	17	7.53	7.06	14.59	11.64	23.97	12.33	9.77	9.16	18.93	12.77	29.97	17.20
5310	0	7.81	6.69	14.50	11.61	23.97	12.36	10.13	8.68	18.81	12.74	29.97	17.23
	8	7.39	6.37	13.76	11.39	23.97	12.58	9.59	8.27	17.85	12.52	29.97	17.45
	17	7.72	6.64	14.36	11.57	23.97	12.40	10.01	8.62	18.63	12.70	29.97	17.27

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5270	0	0.00	-13.39	1.92	20.17	1.13	8.70	9.83	-14.04	1.98	20.18	1.13	8.11	9.24
	8	0.00	-13.54	1.92	20.17	1.13	8.55	9.68	-14.11	1.98	20.18	1.13	8.04	9.17
	17	0.00	-13.32	1.92	20.17	1.13	8.77	9.90	-13.66	1.98	20.18	1.13	8.49	9.62
5310	0	0.00	-13.16	1.92	20.17	1.13	8.93	10.06	-13.90	1.98	20.18	1.13	8.25	9.38
	8	0.00	-13.40	1.92	20.17	1.13	8.69	9.82	-14.11	1.98	20.18	1.13	8.04	9.17
	17	0.00	-13.21	1.92	20.17	1.13	8.88	10.01	-13.93	1.98	20.18	1.13	8.22	9.35

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 26-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.						
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				
5510	0	7.92	7.33	15.25	11.83	23.97	12.14	10.27	9.51	19.78	12.96	29.97	17.01		
	8	7.63	7.11	14.75	11.69	23.97	12.28	9.90	9.23	19.13	12.82	29.97	17.15		
	17	7.77	7.59	15.36	11.86	23.97	12.11	10.08	9.84	19.93	12.99	29.97	16.98		
5550	0	7.28	7.20	14.48	11.61	23.97	12.36	9.44	9.34	18.79	12.74	29.97	17.23		
	8	6.94	7.05	13.99	11.46	23.97	12.51	9.00	9.15	18.15	12.59	29.97	17.38		
	17	7.18	7.68	14.86	11.72	23.97	12.25	9.31	9.96	19.28	12.85	29.97	17.12		
5670	0	7.07	7.02	14.09	11.49	23.97	12.48	9.18	9.11	18.28	12.62	29.97	17.35		
	8	6.68	6.57	13.24	11.22	23.97	12.75	8.66	8.52	17.18	12.35	29.97	17.62		
	17	6.98	6.99	13.96	11.45	23.97	12.52	9.05	9.06	18.11	12.58	29.97	17.39		
5710	0	7.11	6.99	14.11	11.49	23.97	12.48	9.23	9.07	18.30	12.62	29.97	17.35		
	8	6.70	6.29	12.99	11.14	23.97	12.83	8.69	8.16	16.85	12.27	29.97	17.70		
	17	7.08	6.88	13.96	11.45	23.97	12.52	9.19	8.92	18.11	12.58	29.97	17.39		
5755	0	7.01	6.70	13.71	11.37	30.00	18.63	9.09	8.69	17.78	12.50	36.00	23.50		
	8	6.74	6.37	13.11	11.18	30.00	18.82	8.74	8.26	17.00	12.31	36.00	23.69		
	17	6.96	7.02	13.98	11.45	30.00	18.55	9.03	9.10	18.13	12.58	36.00	23.42		
5795	0	7.03	6.32	13.35	11.26	30.00	18.74	9.12	8.20	17.32	12.39	36.00	23.61		
	8	6.87	6.18	13.05	11.16	30.00	18.84	8.91	8.01	16.93	12.29	36.00	23.71		
	17	7.28	6.96	14.24	11.54	30.00	18.46	9.44	9.03	18.47	12.67	36.00	23.33		

Tested Frequency [MHz]	RU Index	5G_CH0							5G_CH1						
		Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		e.i.r.p.
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]	
5510	0	0.00	-13.14	1.96	20.17	1.13	8.99	10.12	-13.57	2.05	20.17	1.13	8.65	9.78	
	8	0.00	-13.30	1.96	20.17	1.13	8.83	9.96	-13.70	2.05	20.17	1.13	8.52	9.65	
	17	0.00	-13.22	1.96	20.17	1.13	8.91	10.04	-13.42	2.05	20.17	1.13	8.80	9.93	
5550	0	0.00	-13.50	1.96	20.16	1.13	8.62	9.75	-13.64	2.04	20.17	1.13	8.57	9.70	
	8	0.00	-13.71	1.96	20.16	1.13	8.41	9.54	-13.73	2.04	20.17	1.13	8.48	9.61	
	17	0.00	-13.56	1.96	20.16	1.13	8.56	9.69	-13.36	2.04	20.17	1.13	8.85	9.98	
5670	0	0.00	-13.61	1.94	20.16	1.13	8.50	9.63	-13.73	2.02	20.17	1.13	8.46	9.59	
	8	0.00	-13.86	1.94	20.16	1.13	8.25	9.38	-14.02	2.02	20.17	1.13	8.17	9.30	
	17	0.00	-13.67	1.94	20.16	1.13	8.44	9.57	-13.75	2.02	20.17	1.13	8.44	9.57	
5710	0	0.00	-13.58	1.94	20.16	1.13	8.52	9.65	-13.74	2.01	20.17	1.13	8.45	9.58	
	8	0.00	-13.84	1.94	20.16	1.13	8.26	9.39	-14.20	2.01	20.17	1.13	7.99	9.12	
	17	0.00	-13.60	1.94	20.16	1.13	8.50	9.63	-13.81	2.01	20.17	1.13	8.38	9.51	
5755	0	0.00	-13.68	1.98	20.16	1.13	8.46	9.59	-13.96	2.05	20.17	1.13	8.26	9.39	
	8	0.00	-13.85	1.98	20.16	1.13	8.29	9.42	-14.18	2.05	20.17	1.13	8.04	9.17	
	17	0.00	-13.71	1.98	20.16	1.13	8.43	9.56	-13.76	2.05	20.17	1.13	8.46	9.59	
5795	0	0.00	-13.66	1.97	20.16	1.13	8.47	9.60	-14.20	2.03	20.17	1.13	8.01	9.14	
	8	0.00	-13.76	1.97	20.16	1.13	8.37	9.50	-14.30	2.03	20.17	1.13	7.91	9.04	
	17	0.00	-13.51	1.97	20.16	1.13	8.62	9.75	-13.78	2.03	20.17	1.13	8.43	9.56	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 26-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5270	0	7.27	6.55	13.82	11.41	23.97	12.56	8.18	8.49	16.67	12.22	29.97	17.75
	8	7.06	6.46	13.52	11.31	23.97	12.66	7.94	8.38	16.32	12.13	29.97	17.84
	17	7.41	6.71	14.12	11.50	23.97	12.47	8.33	8.71	17.04	12.32	29.97	17.65
5310	0	7.47	6.75	14.23	11.53	23.97	12.44	8.41	8.76	17.17	12.35	29.97	17.62
	8	7.04	6.48	13.52	11.31	23.97	12.66	7.92	8.40	16.32	12.13	29.97	17.84
	17	7.47	6.63	14.10	11.49	23.97	12.48	8.41	8.60	17.01	12.31	29.97	17.66

			5G_CH0							5G_CH1				
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5270	0	0.00	-13.47	1.92	20.17	0.51	8.62	9.13	-13.99	1.98	20.18	1.13	8.16	9.29
	8	0.00	-13.60	1.92	20.17	0.51	8.49	9.00	-14.05	1.98	20.18	1.13	8.10	9.23
	17	0.00	-13.39	1.92	20.17	0.51	8.70	9.21	-13.88	1.98	20.18	1.13	8.27	9.40
5310	0	0.00	-13.35	1.92	20.17	0.51	8.74	9.25	-13.86	1.98	20.18	1.13	8.29	9.42
	8	0.00	-13.61	1.92	20.17	0.51	8.48	8.99	-14.04	1.98	20.18	1.13	8.11	9.24
	17	0.00	-13.35	1.92	20.17	0.51	8.74	9.25	-13.94	1.98	20.18	1.13	8.21	9.34

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 26-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	0	7.60	7.42	15.01	11.76	23.97	12.21	8.54	9.62	18.16	12.59	29.97	17.38
	8	7.36	6.98	14.34	11.57	23.97	12.40	8.27	9.06	17.33	12.39	29.97	17.58
	17	7.74	7.11	14.85	11.72	23.97	12.25	8.70	9.23	17.93	12.54	29.97	17.43
5550	0	7.05	7.23	14.28	11.55	23.97	12.42	7.93	9.39	17.31	12.38	29.97	17.59
	8	6.70	6.94	13.64	11.35	23.97	12.62	7.54	9.00	16.54	12.19	29.97	17.78
	17	7.28	7.44	14.72	11.68	23.97	12.29	8.19	9.65	17.84	12.51	29.97	17.46
5670	0	6.66	6.57	13.23	11.22	23.97	12.75	7.49	8.52	16.01	12.04	29.97	17.93
	8	6.39	6.46	12.85	11.09	23.97	12.88	7.19	8.38	15.57	11.92	29.97	18.05
	17	6.83	7.00	13.84	11.41	23.97	12.56	7.68	9.08	16.77	12.25	29.97	17.72
5710	0	6.81	6.22	13.03	11.15	23.97	12.82	7.66	8.06	15.72	11.97	29.97	18.00
	8	6.53	6.08	12.61	11.01	23.97	12.96	7.35	7.88	15.23	11.83	29.97	18.14
	17	6.98	6.86	13.85	11.41	23.97	12.56	7.85	8.90	16.76	12.24	29.97	17.73
5755	0	6.96	6.67	13.63	11.34	30.00	18.66	7.83	8.65	16.48	12.17	36.00	23.83
	8	6.51	6.61	13.12	11.18	30.00	18.82	7.32	8.57	15.89	12.01	36.00	23.99
	17	6.98	6.81	13.78	11.39	30.00	18.61	7.85	8.83	16.68	12.22	36.00	23.78
5795	0	7.03	6.45	13.48	11.30	30.00	18.70	7.91	8.37	16.28	12.12	36.00	23.88
	8	6.85	6.54	13.40	11.27	30.00	18.73	7.71	8.49	16.20	12.09	36.00	23.91
	17	7.28	6.59	13.87	11.42	30.00	18.58	8.18	8.55	16.73	12.24	36.00	23.76

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5510	0	0.00	-13.32	1.96	20.17	0.51	8.81	9.32	-13.52	2.05	20.17	1.13	8.70	9.83
	8	0.00	-13.46	1.96	20.17	0.51	8.67	9.18	-13.78	2.05	20.17	1.13	8.44	9.57
	17	0.00	-13.24	1.96	20.17	0.51	8.89	9.40	-13.70	2.05	20.17	1.13	8.52	9.65
5550	0	0.00	-13.64	1.96	20.16	0.51	8.48	8.99	-13.62	2.04	20.17	1.13	8.59	9.72
	8	0.00	-13.86	1.96	20.16	0.51	8.26	8.77	-13.80	2.04	20.17	1.13	8.41	9.54
	17	0.00	-13.50	1.96	20.16	0.51	8.62	9.13	-13.50	2.04	20.17	1.13	8.71	9.84
5670	0	0.00	-13.87	1.94	20.16	0.51	8.24	8.75	-14.02	2.02	20.17	1.13	8.17	9.30
	8	0.00	-14.05	1.94	20.16	0.51	8.06	8.57	-14.09	2.02	20.17	1.13	8.10	9.23
	17	0.00	-13.76	1.94	20.16	0.51	8.35	8.86	-13.74	2.02	20.17	1.13	8.45	9.58
5710	0	0.00	-13.77	1.94	20.16	0.51	8.33	8.84	-14.25	2.01	20.17	1.13	7.94	9.07
	8	0.00	-13.95	1.94	20.16	0.51	8.15	8.66	-14.35	2.01	20.17	1.13	7.84	8.97
	17	0.00	-13.66	1.94	20.16	0.51	8.44	8.95	-13.82	2.01	20.17	1.13	8.37	9.50
5755	0	0.00	-13.71	1.98	20.16	0.51	8.43	8.94	-13.98	2.05	20.17	1.13	8.24	9.37
	8	0.00	-14.00	1.98	20.16	0.51	8.14	8.65	-14.02	2.05	20.17	1.13	8.20	9.33
	17	0.00	-13.70	1.98	20.16	0.51	8.44	8.95	-13.89	2.05	20.17	1.13	8.33	9.46
5795	0	0.00	-13.66	1.97	20.16	0.51	8.47	8.98	-14.11	2.03	20.17	1.13	8.10	9.23
	8	0.00	-13.77	1.97	20.16	0.51	8.36	8.87	-14.05	2.03	20.17	1.13	8.16	9.29
	17	0.00	-13.51	1.97	20.16	0.51	8.62	9.13	-14.02	2.03	20.17	1.13	8.19	9.32

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) = 1 W

For all test frequencies, B was applied the minimum value (38.103 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5270	37	7.08	6.41	13.49	11.30	23.97	12.67	9.18	8.32	17.50	12.43	29.97	17.54
	40	7.06	6.59	13.65	11.35	23.97	12.62	9.16	8.55	17.71	12.48	29.97	17.49
	44	7.09	6.62	13.72	11.37	23.97	12.60	9.20	8.59	17.79	12.50	29.97	17.47
5310	37	7.51	6.07	13.58	11.33	23.97	12.64	9.74	7.88	17.62	12.46	29.97	17.51
	40	7.20	6.29	13.49	11.30	23.97	12.67	9.35	8.16	17.50	12.43	29.97	17.54
	44	7.61	6.54	14.15	11.51	23.97	12.46	9.88	8.48	18.36	12.64	29.97	17.33

			5G_CH0							5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5270	37	0.00	-13.59	1.92	20.17	1.13	8.50	9.63	-14.08	1.98	20.18	1.13	8.07	9.20	
	40	0.00	-13.60	1.92	20.17	1.13	8.49	9.62	-13.96	1.98	20.18	1.13	8.19	9.32	
	44	0.00	-13.58	1.92	20.17	1.13	8.51	9.64	-13.94	1.98	20.18	1.13	8.21	9.34	
5310	37	0.00	-13.33	1.92	20.17	1.13	8.76	9.89	-14.32	1.98	20.18	1.13	7.83	8.96	
	40	0.00	-13.51	1.92	20.17	1.13	8.58	9.71	-14.17	1.98	20.18	1.13	7.98	9.11	
	44	0.00	-13.27	1.92	20.17	1.13	8.82	9.95	-14.00	1.98	20.18	1.13	8.15	9.28	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	37	7.70	7.26	14.97	11.75	23.97	12.22	9.99	9.42	19.41	12.88	29.97	17.09
	40	7.36	6.98	14.34	11.57	23.97	12.40	9.54	9.06	18.60	12.70	29.97	17.27
	44	7.63	7.54	15.17	11.81	23.97	12.16	9.90	9.78	19.68	12.94	29.97	17.03
5550	37	7.05	6.83	13.88	11.42	23.97	12.55	9.14	8.86	18.00	12.55	29.97	17.42
	40	6.52	6.96	13.48	11.30	23.97	12.67	8.46	9.02	17.48	12.43	29.97	17.54
	44	7.08	7.42	14.50	11.61	23.97	12.36	9.19	9.63	18.81	12.74	29.97	17.23
5670	37	6.86	6.40	13.27	11.23	23.97	12.74	8.90	8.30	17.21	12.36	29.97	17.61
	40	6.50	6.49	12.99	11.13	23.97	12.84	8.43	8.42	16.85	12.26	29.97	17.71
	44	6.88	6.84	13.72	11.37	23.97	12.60	8.93	8.88	17.80	12.50	29.97	17.47
5710	37	6.73	6.19	12.92	11.11	23.97	12.86	8.73	8.03	16.76	12.24	29.97	17.73
	40	6.62	6.17	12.80	11.07	23.97	12.90	8.59	8.01	16.60	12.20	29.97	17.77
	44	6.81	6.79	13.60	11.33	23.97	12.64	8.83	8.80	17.64	12.46	29.97	17.51
5755	37	6.80	6.55	13.35	11.25	30.00	18.75	8.82	8.49	17.32	12.38	36.00	23.62
	40	6.63	6.61	13.24	11.22	30.00	18.78	8.60	8.57	17.17	12.35	36.00	23.65
	44	6.94	6.90	13.85	11.41	30.00	18.59	9.01	8.95	17.96	12.54	36.00	23.46
5795	37	7.13	6.45	13.58	11.33	30.00	18.67	9.25	8.37	17.62	12.46	36.00	23.54
	40	6.68	6.38	13.06	11.16	30.00	18.84	8.67	8.28	16.95	12.29	36.00	23.71
	44	7.23	7.09	14.32	11.56	30.00	18.44	9.38	9.20	18.58	12.69	36.00	23.31

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5510	37	0.00	-13.26	1.96	20.17	1.13	8.87	10.00	-13.61	2.05	20.17	1.13	8.61	9.74
	40	0.00	-13.46	1.96	20.17	1.13	8.67	9.80	-13.78	2.05	20.17	1.13	8.44	9.57
	44	0.00	-13.30	1.96	20.17	1.13	8.83	9.96	-13.45	2.05	20.17	1.13	8.77	9.90
5550	37	0.00	-13.64	1.96	20.16	1.13	8.48	9.61	-13.87	2.04	20.17	1.13	8.34	9.47
	40	0.00	-13.98	1.96	20.16	1.13	8.14	9.27	-13.79	2.04	20.17	1.13	8.42	9.55
	44	0.00	-13.62	1.96	20.16	1.13	8.50	9.63	-13.51	2.04	20.17	1.13	8.70	9.83
5670	37	0.00	-13.74	1.94	20.16	1.13	8.37	9.50	-14.13	2.02	20.17	1.13	8.06	9.19
	40	0.00	-13.98	1.94	20.16	1.13	8.13	9.26	-14.07	2.02	20.17	1.13	8.12	9.25
	44	0.00	-13.73	1.94	20.16	1.13	8.38	9.51	-13.84	2.02	20.17	1.13	8.35	9.48
5710	37	0.00	-13.82	1.94	20.16	1.13	8.28	9.41	-14.27	2.01	20.17	1.13	7.92	9.05
	40	0.00	-13.89	1.94	20.16	1.13	8.21	9.34	-14.28	2.01	20.17	1.13	7.91	9.04
	44	0.00	-13.77	1.94	20.16	1.13	8.33	9.46	-13.87	2.01	20.17	1.13	8.32	9.45
5755	37	0.00	-13.81	1.98	20.16	1.13	8.33	9.46	-14.06	2.05	20.17	1.13	8.16	9.29
	40	0.00	-13.92	1.98	20.16	1.13	8.22	9.35	-14.02	2.05	20.17	1.13	8.20	9.33
	44	0.00	-13.72	1.98	20.16	1.13	8.42	9.55	-13.83	2.05	20.17	1.13	8.39	9.52
5795	37	0.00	-13.60	1.97	20.16	1.13	8.53	9.66	-14.11	2.03	20.17	1.13	8.10	9.23
	40	0.00	-13.88	1.97	20.16	1.13	8.25	9.38	-14.16	2.03	20.17	1.13	8.05	9.18
	44	0.00	-13.54	1.97	20.16	1.13	8.59	9.72	-13.70	2.03	20.17	1.13	8.51	9.64

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5270	37	7.58	6.52	14.10	11.49	23.97	12.48	8.53	8.45	16.98	12.30	29.97	17.67
	40	7.06	6.12	13.18	11.20	23.97	12.77	7.94	7.94	15.88	12.01	29.97	17.96
	44	7.72	6.76	14.48	11.61	23.97	12.36	8.69	8.77	17.46	12.42	29.97	17.55
5310	37	7.77	6.67	14.45	11.60	23.97	12.37	8.74	8.66	17.40	12.41	29.97	17.56
	40	7.41	6.30	13.71	11.37	23.97	12.60	8.33	8.17	16.50	12.18	29.97	17.79
	44	7.60	6.39	13.99	11.46	23.97	12.51	8.54	8.29	16.83	12.26	29.97	17.71

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5270	37	0.00	-13.29	1.92	20.17	0.51	8.80	9.31	-14.01	1.98	20.18	1.13	8.14	9.27
	40	0.00	-13.60	1.92	20.17	0.51	8.49	9.00	-14.28	1.98	20.18	1.13	7.87	9.00
	44	0.00	-13.21	1.92	20.17	0.51	8.88	9.39	-13.85	1.98	20.18	1.13	8.30	9.43
5310	37	0.00	-13.18	1.92	20.17	0.51	8.91	9.42	-13.91	1.98	20.18	1.13	8.24	9.37
	40	0.00	-13.39	1.92	20.17	0.51	8.70	9.21	-14.16	1.98	20.18	1.13	7.99	9.12
	44	0.00	-13.28	1.92	20.17	0.51	8.81	9.32	-14.10	1.98	20.18	1.13	8.05	9.18

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) = 1 W

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.
* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 52-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU	Conducted power							e.i.r.p.						
Frequency	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin		
[MHz]		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]		
5510	37	7.76	6.98	14.74	11.69	23.97	12.28	8.72	9.06	17.78	12.50	29.97	17.47		
	40	7.53	7.00	14.53	11.62	23.97	12.35	8.47	9.08	17.55	12.44	29.97	17.53		
	44	7.90	7.62	15.52	11.91	23.97	12.06	8.88	9.89	18.77	12.74	29.97	17.23		
5550	37	6.98	7.04	14.02	11.47	23.97	12.50	7.86	9.13	16.98	12.30	29.97	17.67		
	40	6.87	6.99	13.86	11.42	23.97	12.55	7.73	9.07	16.80	12.25	29.97	17.72		
	44	6.95	7.02	13.97	11.45	23.97	12.52	7.82	9.11	16.93	12.29	29.97	17.68		
5670	37	6.80	6.58	13.38	11.27	23.97	12.70	7.65	8.54	16.19	12.09	29.97	17.88		
	40	6.63	6.61	13.24	11.22	23.97	12.75	7.46	8.58	16.03	12.05	29.97	17.92		
	44	6.85	6.81	13.66	11.35	23.97	12.62	7.70	8.84	16.54	12.19	29.97	17.78		
5710	37	6.92	6.36	13.28	11.23	23.97	12.74	7.78	8.25	16.04	12.05	29.97	17.92		
	40	6.46	6.32	12.78	11.06	23.97	12.91	7.26	8.20	15.46	11.89	29.97	18.08		
	44	7.11	6.47	13.58	11.33	23.97	12.64	8.00	8.39	16.39	12.15	29.97	17.82		
5755	37	6.94	6.68	13.63	11.34	30.00	18.66	7.81	8.67	16.48	12.17	36.00	23.83		
	40	6.93	6.58	13.51	11.31	30.00	18.69	7.79	8.53	16.32	12.13	36.00	23.87		
	44	7.16	6.86	14.01	11.46	30.00	18.54	8.05	8.89	16.94	12.29	36.00	23.71		
5795	37	7.06	6.44	13.50	11.30	30.00	18.70	7.94	8.35	16.30	12.12	36.00	23.88		
	40	7.01	6.32	13.34	11.25	30.00	18.75	7.89	8.20	16.09	12.07	36.00	23.93		
	44	7.40	6.57	13.97	11.45	30.00	18.55	8.32	8.53	16.84	12.26	36.00	23.74		

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5510	37	0.00	-13.23	1.96	20.17	0.51	8.90	9.41	-13.78	2.05	20.17	1.13	8.44	9.57
	40	0.00	-13.36	1.96	20.17	0.51	8.77	9.28	-13.77	2.05	20.17	1.13	8.45	9.58
	44	0.00	-13.15	1.96	20.17	0.51	8.98	9.49	-13.40	2.05	20.17	1.13	8.82	9.95
5550	37	0.00	-13.68	1.96	20.16	0.51	8.44	8.95	-13.74	2.04	20.17	1.13	8.47	9.60
	40	0.00	-13.75	1.96	20.16	0.51	8.37	8.88	-13.77	2.04	20.17	1.13	8.44	9.57
	44	0.00	-13.70	1.96	20.16	0.51	8.42	8.93	-13.75	2.04	20.17	1.13	8.46	9.59
5670	37	0.00	-13.78	1.94	20.16	0.51	8.33	8.84	-14.01	2.02	20.17	1.13	8.18	9.31
	40	0.00	-13.89	1.94	20.16	0.51	8.22	8.73	-13.99	2.02	20.17	1.13	8.20	9.33
	44	0.00	-13.75	1.94	20.16	0.51	8.36	8.87	-13.86	2.02	20.17	1.13	8.33	9.46
5710	37	0.00	-13.70	1.94	20.16	0.51	8.40	8.91	-14.15	2.01	20.17	1.13	8.04	9.17
	40	0.00	-14.00	1.94	20.16	0.51	8.10	8.61	-14.18	2.01	20.17	1.13	8.01	9.14
	44	0.00	-13.58	1.94	20.16	0.51	8.52	9.03	-14.08	2.01	20.17	1.13	8.11	9.24
5755	37	0.00	-13.72	1.98	20.16	0.51	8.42	8.93	-13.97	2.05	20.17	1.13	8.25	9.38
	40	0.00	-13.73	1.98	20.16	0.51	8.41	8.92	-14.04	2.05	20.17	1.13	8.18	9.31
	44	0.00	-13.59	1.98	20.16	0.51	8.55	9.06	-13.86	2.05	20.17	1.13	8.36	9.49
5795	37	0.00	-13.64	1.97	20.16	0.51	8.49	9.00	-14.12	2.03	20.17	1.13	8.09	9.22
	40	0.00	-13.67	1.97	20.16	0.51	8.46	8.97	-14.20	2.03	20.17	1.13	8.01	9.14
	44	0.00	-13.44	1.97	20.16	0.51	8.69	9.20	-14.03	2.03	20.17	1.13	8.18	9.31

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) = 1 W

For all test frequencies, B was applied the minimum value (38.564 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	53	7.75	6.87	14.62	11.65	23.97	12.32	10.05	8.92	18.97	12.78	29.97	17.19
	54	7.47	6.57	14.03	11.47	23.97	12.50	9.69	8.52	18.20	12.60	29.97	17.37
	56	7.43	6.81	14.24	11.54	23.97	12.43	9.64	8.84	18.48	12.67	29.97	17.30
5230	53	7.43	6.63	14.06	11.48	23.97	12.49	9.64	8.60	18.24	12.61	29.97	17.36
	54	7.13	6.50	13.62	11.34	23.97	12.63	9.25	8.43	17.67	12.47	29.97	17.50
	56	7.48	6.72	14.21	11.52	23.97	12.45	9.70	8.72	18.43	12.65	29.97	17.32
5270	53	7.31	6.59	13.90	11.43	23.97	12.54	9.48	8.55	18.03	12.56	29.97	17.41
	54	7.16	6.71	13.87	11.42	23.97	12.55	9.29	8.71	18.00	12.55	29.97	17.42
	56	7.17	6.89	14.06	11.48	23.97	12.49	9.31	8.93	18.24	12.61	29.97	17.36
5310	53	7.46	6.63	14.09	11.49	23.97	12.48	9.67	8.60	18.27	12.62	29.97	17.35
	54	6.94	6.23	13.17	11.20	23.97	12.77	9.01	8.08	17.09	12.33	29.97	17.64
	56	7.39	6.55	13.94	11.44	23.97	12.53	9.59	8.50	18.09	12.57	29.97	17.40

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	[dBm]	[dB]	[dB]	[dBi]	Cond. Power	e.i.r.p.	
							[dBm]	[dBm]					[dBm]	[dBm]	
5190	53	0.00	-13.19	1.91	20.17	1.13	8.89	10.02	-13.76	1.96	20.18	1.13	8.37	9.50	
	54	0.00	-13.35	1.91	20.17	1.13	8.73	9.86	-13.96	1.96	20.18	1.13	8.17	9.30	
	56	0.00	-13.37	1.91	20.17	1.13	8.71	9.84	-13.80	1.96	20.18	1.13	8.33	9.46	
5230	53	0.00	-13.37	1.91	20.17	1.13	8.71	9.84	-13.92	1.96	20.18	1.13	8.22	9.35	
	54	0.00	-13.55	1.91	20.17	1.13	8.53	9.66	-14.01	1.96	20.18	1.13	8.13	9.26	
	56	0.00	-13.34	1.91	20.17	1.13	8.74	9.87	-13.86	1.96	20.18	1.13	8.28	9.41	
5270	53	0.00	-13.45	1.92	20.17	1.13	8.64	9.77	-13.96	1.98	20.18	1.13	8.19	9.32	
	54	0.00	-13.54	1.92	20.17	1.13	8.55	9.68	-13.88	1.98	20.18	1.13	8.27	9.40	
	56	0.00	-13.53	1.92	20.17	1.13	8.56	9.69	-13.77	1.98	20.18	1.13	8.38	9.51	
5310	53	0.00	-13.36	1.92	20.17	1.13	8.73	9.86	-13.94	1.98	20.18	1.13	8.21	9.34	
	54	0.00	-13.67	1.92	20.17	1.13	8.42	9.55	-14.21	1.98	20.18	1.13	7.94	9.07	
	56	0.00	-13.40	1.92	20.17	1.13	8.69	9.82	-13.99	1.98	20.18	1.13	8.16	9.29	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) = 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	53	7.09	7.40	14.49	11.61	23.97	12.36	9.20	9.60	18.79	12.74	29.97	17.23
	54	6.87	6.89	13.75	11.38	23.97	12.59	8.91	8.94	17.84	12.51	29.97	17.46
	56	7.19	7.40	14.59	11.64	23.97	12.33	9.33	9.60	18.92	12.77	29.97	17.20
5550	53	6.81	7.34	14.15	11.51	23.97	12.46	8.83	9.52	18.35	12.64	29.97	17.33
	54	6.49	7.02	13.51	11.31	23.97	12.66	8.42	9.11	17.53	12.44	29.97	17.53
	56	6.66	7.52	14.18	11.52	23.97	12.45	8.63	9.76	18.39	12.65	29.97	17.32
5670	53	6.12	6.67	12.79	11.07	23.97	12.90	7.94	8.66	16.59	12.20	29.97	17.77
	54	6.08	6.66	12.73	11.05	23.97	12.92	7.88	8.64	16.52	12.18	29.97	17.79
	56	6.33	6.88	13.21	11.21	23.97	12.76	8.22	8.92	17.13	12.34	29.97	17.63
5710	53	6.41	6.42	12.83	11.08	23.97	12.89	8.32	8.33	16.65	12.21	29.97	17.76
	54	6.11	6.33	12.44	10.95	23.97	13.02	7.93	8.21	16.14	12.08	29.97	17.89
	56	6.56	6.60	13.16	11.19	23.97	12.78	8.51	8.56	17.08	12.32	29.97	17.65
5755	53	6.38	6.52	12.89	11.10	30.00	18.90	8.27	8.45	16.73	12.23	36.00	23.77
	54	6.23	6.53	12.76	11.06	30.00	18.94	8.08	8.47	16.56	12.19	36.00	23.81
	56	6.60	6.76	13.36	11.26	30.00	18.74	8.56	8.77	17.33	12.39	36.00	23.61
5795	53	6.52	6.71	13.23	11.21	30.00	18.79	8.45	8.71	17.16	12.34	36.00	23.66
	54	6.32	6.53	12.85	11.09	30.00	18.91	8.20	8.47	16.67	12.22	36.00	23.78
	56	6.75	6.96	13.71	11.37	30.00	18.63	8.75	9.03	17.78	12.50	36.00	23.50

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5510	53	0.00	-13.62	1.96	20.17	1.13	8.51	9.64	-13.53	2.05	20.17	1.13	8.69	9.82
	54	0.00	-13.76	1.96	20.17	1.13	8.37	9.50	-13.84	2.05	20.17	1.13	8.38	9.51
	56	0.00	-13.56	1.96	20.17	1.13	8.57	9.70	-13.53	2.05	20.17	1.13	8.69	9.82
5550	53	0.00	-13.79	1.96	20.16	1.13	8.33	9.46	-13.56	2.04	20.17	1.13	8.65	9.78
	54	0.00	-14.00	1.96	20.16	1.13	8.12	9.25	-13.75	2.04	20.17	1.13	8.46	9.59
	56	0.00	-13.89	1.96	20.16	1.13	8.23	9.36	-13.45	2.04	20.17	1.13	8.76	9.89
5670	53	0.00	-14.24	1.94	20.16	1.13	7.87	9.00	-13.95	2.02	20.17	1.13	8.24	9.37
	54	0.00	-14.27	1.94	20.16	1.13	7.84	8.97	-13.96	2.02	20.17	1.13	8.23	9.36
	56	0.00	-14.09	1.94	20.16	1.13	8.02	9.15	-13.82	2.02	20.17	1.13	8.37	9.50
5710	53	0.00	-14.03	1.94	20.16	1.13	8.07	9.20	-14.11	2.01	20.17	1.13	8.08	9.21
	54	0.00	-14.24	1.94	20.16	1.13	7.86	8.99	-14.17	2.01	20.17	1.13	8.02	9.15
	56	0.00	-13.93	1.94	20.16	1.13	8.17	9.30	-13.99	2.01	20.17	1.13	8.20	9.33
5755	53	0.00	-14.09	1.98	20.16	1.13	8.05	9.18	-14.08	2.05	20.17	1.13	8.14	9.27
	54	0.00	-14.19	1.98	20.16	1.13	7.95	9.08	-14.07	2.05	20.17	1.13	8.15	9.28
	56	0.00	-13.94	1.98	20.16	1.13	8.20	9.33	-13.92	2.05	20.17	1.13	8.30	9.43
5795	53	0.00	-13.99	1.97	20.16	1.13	8.14	9.27	-13.94	2.03	20.17	1.13	8.27	9.40
	54	0.00	-14.12	1.97	20.16	1.13	8.01	9.14	-14.06	2.03	20.17	1.13	8.15	9.28
	56	0.00	-13.84	1.97	20.16	1.13	8.29	9.42	-13.78	2.03	20.17	1.13	8.43	9.56

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	53	7.10	6.28	13.38	11.27	23.97	12.70	7.98	8.15	16.13	12.08	29.97	17.89
	54	6.69	5.92	12.60	11.01	23.97	12.96	7.52	7.68	15.20	11.82	29.97	18.15
	56	6.70	6.27	12.97	11.13	23.97	12.84	7.54	8.13	15.67	11.95	29.97	18.02
5230	53	6.59	6.13	12.72	11.05	23.97	12.92	7.41	7.96	15.37	11.87	29.97	18.10
	54	6.58	5.97	12.54	10.98	23.97	12.99	7.40	7.74	15.13	11.80	29.97	18.17
	56	6.78	6.16	12.94	11.12	23.97	12.85	7.62	7.99	15.61	11.93	29.97	18.04
5270	53	7.36	7.40	14.76	11.69	23.97	12.28	8.28	9.59	17.87	12.52	29.97	17.45
	54	7.03	6.79	13.82	11.41	23.97	12.56	7.90	8.81	16.71	12.23	29.97	17.74
	56	7.27	7.20	14.47	11.60	23.97	12.37	8.18	9.33	17.51	12.43	29.97	17.54
5310	53	7.51	6.77	14.28	11.55	23.97	12.42	8.45	8.78	17.22	12.36	29.97	17.61
	54	7.14	6.58	13.72	11.37	23.97	12.60	8.03	8.54	16.57	12.19	29.97	17.78
	56	7.44	6.77	14.21	11.53	23.97	12.44	8.37	8.78	17.15	12.34	29.97	17.63

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5190	53	0.00	-13.57	1.91	20.17	0.51	8.51	9.02	-14.15	1.96	20.18	1.13	7.98	9.11
	54	0.00	-13.83	1.91	20.17	0.51	8.25	8.76	-14.41	1.96	20.18	1.13	7.72	8.85
	56	0.00	-13.82	1.91	20.17	0.51	8.26	8.77	-14.16	1.96	20.18	1.13	7.97	9.10
5230	53	0.00	-13.89	1.91	20.17	0.51	8.19	8.70	-14.26	1.96	20.18	1.13	7.88	9.01
	54	0.00	-13.90	1.91	20.17	0.51	8.18	8.69	-14.38	1.96	20.18	1.13	7.76	8.89
	56	0.00	-13.77	1.91	20.17	0.51	8.31	8.82	-14.24	1.96	20.18	1.13	7.90	9.03
5270	53	0.00	-13.42	1.92	20.17	0.51	8.67	9.18	-13.46	1.98	20.18	1.13	8.69	9.82
	54	0.00	-13.62	1.92	20.17	0.51	8.47	8.98	-13.83	1.98	20.18	1.13	8.32	9.45
	56	0.00	-13.47	1.92	20.17	0.51	8.62	9.13	-13.58	1.98	20.18	1.13	8.57	9.70
5310	53	0.00	-13.33	1.92	20.17	0.51	8.76	9.27	-13.85	1.98	20.18	1.13	8.30	9.43
	54	0.00	-13.55	1.92	20.17	0.51	8.54	9.05	-13.97	1.98	20.18	1.13	8.18	9.31
	56	0.00	-13.37	1.92	20.17	0.51	8.72	9.23	-13.85	1.98	20.18	1.13	8.30	9.43

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 + [dBi] 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 106-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	53	7.11	7.50	14.61	11.65	23.97	12.32		7.99	9.73	17.72	12.49	29.97	17.48
	54	6.94	7.23	14.17	11.52	23.97	12.45		7.81	9.38	17.19	12.35	29.97	17.62
	56	7.03	7.55	14.58	11.64	23.97	12.33		7.90	9.80	17.70	12.48	29.97	17.49
5550	53	6.70	7.30	14.00	11.46	23.97	12.51		7.54	9.47	17.01	12.31	29.97	17.66
	54	6.61	7.01	13.61	11.34	23.97	12.63		7.43	9.09	16.52	12.18	29.97	17.79
	56	6.83	7.49	14.31	11.56	23.97	12.41		7.68	9.71	17.39	12.40	29.97	17.57
5670	53	6.26	6.94	13.20	11.21	23.97	12.76		7.04	9.00	16.04	12.05	29.97	17.92
	54	6.16	6.64	12.80	11.07	23.97	12.90		6.93	8.62	15.54	11.92	29.97	18.05
	56	6.12	6.77	12.88	11.10	23.97	12.87		6.88	8.78	15.66	11.95	29.97	18.02
5710	53	6.67	6.68	13.35	11.25	23.97	12.72		7.50	8.66	16.16	12.09	29.97	17.88
	54	6.27	6.47	12.73	11.05	23.97	12.92		7.05	8.39	15.44	11.89	29.97	18.08
	56	6.65	7.12	13.78	11.39	23.97	12.58		7.48	9.24	16.72	12.23	29.97	17.74
5755	53	6.38	6.89	13.26	11.23	30.00	18.77		7.17	8.93	16.11	12.07	36.00	23.93
	54	6.29	6.76	13.05	11.16	30.00	18.84		7.07	8.77	15.84	12.00	36.00	24.00
	56	6.65	7.00	13.65	11.35	30.00	18.65		7.48	9.08	16.55	12.19	36.00	23.81
5795	53	6.62	6.87	13.49	11.30	30.00	18.70		7.45	8.91	16.36	12.14	36.00	23.86
	54	6.52	6.88	13.40	11.27	30.00	18.73		7.33	8.93	16.26	12.11	36.00	23.89
	56	6.75	7.39	14.14	11.50	30.00	18.50		7.59	9.59	17.18	12.35	36.00	23.65

Tested Frequency [MHz]	RU Index	Duty Factor *1) [dB]	5G_CH0					5G_CH1					Result		
			Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5510	53	0.00	-13.61	1.96	20.17	0.51	8.52	9.03	-13.47	2.05	20.17	1.13	8.75	9.88	
	54	0.00	-13.71	1.96	20.17	0.51	8.42	8.93	-13.63	2.05	20.17	1.13	8.59	9.72	
	56	0.00	-13.66	1.96	20.17	0.51	8.47	8.98	-13.44	2.05	20.17	1.13	8.78	9.91	
5550	53	0.00	-13.86	1.96	20.16	0.51	8.26	8.77	-13.58	2.04	20.17	1.13	8.63	9.76	
	54	0.00	-13.92	1.96	20.16	0.51	8.20	8.71	-13.76	2.04	20.17	1.13	8.45	9.58	
	56	0.00	-13.78	1.96	20.16	0.51	8.34	8.85	-13.47	2.04	20.17	1.13	8.74	9.87	
5670	53	0.00	-14.14	1.94	20.16	0.51	7.97	8.48	-13.78	2.02	20.17	1.13	8.41	9.54	
	54	0.00	-14.21	1.94	20.16	0.51	7.90	8.41	-13.97	2.02	20.17	1.13	8.22	9.35	
	56	0.00	-14.24	1.94	20.16	0.51	7.87	8.38	-13.89	2.02	20.17	1.13	8.30	9.43	
5710	53	0.00	-13.86	1.94	20.16	0.51	8.24	8.75	-13.94	2.01	20.17	1.13	8.25	9.38	
	54	0.00	-14.13	1.94	20.16	0.51	7.97	8.48	-14.08	2.01	20.17	1.13	8.11	9.24	
	56	0.00	-13.87	1.94	20.16	0.51	8.23	8.74	-13.66	2.01	20.17	1.13	8.53	9.66	
5755	53	0.00	-14.09	1.98	20.16	0.51	8.05	8.56	-13.84	2.05	20.17	1.13	8.38	9.51	
	54	0.00	-14.15	1.98	20.16	0.51	7.99	8.50	-13.92	2.05	20.17	1.13	8.30	9.43	
	56	0.00	-13.91	1.98	20.16	0.51	8.23	8.74	-13.77	2.05	20.17	1.13	8.45	9.58	
5795	53	0.00	-13.92	1.97	20.16	0.51	8.21	8.72	-13.84	2.03	20.17	1.13	8.37	9.50	
	54	0.00	-13.99	1.97	20.16	0.51	8.14	8.65	-13.83	2.03	20.17	1.13	8.38	9.51	
	56	0.00	-13.84	1.97	20.16	0.51	8.29	8.80	-13.52	2.03	20.17	1.13	8.69	9.82	

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) = 1 W

For all test frequencies, B was applied the minimum value (38.757 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	61	7.43	6.57	14.00	11.46	23.97	12.51	9.64	8.52	18.16	12.59	29.97	17.38
	62	7.55	6.69	14.24	11.54	23.97	12.43	9.80	8.67	18.47	12.67	29.97	17.30
5230	61	7.23	6.44	13.66	11.36	23.97	12.61	9.37	8.35	17.72	12.49	29.97	17.48
	62	7.23	6.57	13.80	11.40	23.97	12.57	9.37	8.52	17.90	12.53	29.97	17.44
5270	61	7.19	6.59	13.78	11.39	23.97	12.58	9.33	8.55	17.88	12.52	29.97	17.45
	62	7.22	6.70	13.92	11.44	23.97	12.53	9.37	8.69	18.06	12.57	29.97	17.40
5310	61	7.42	6.37	13.80	11.40	23.97	12.57	9.63	8.27	17.90	12.53	29.97	17.44
	62	7.39	6.51	13.90	11.43	23.97	12.54	9.59	8.44	18.03	12.56	29.97	17.41

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5190	61	0.00	-13.37	1.91	20.17	1.13	8.71	9.84	-13.96	1.96	20.18	1.13	8.17	9.30
	62	0.00	-13.30	1.91	20.17	1.13	8.78	9.91	-13.88	1.96	20.18	1.13	8.25	9.38
5230	61	0.00	-13.49	1.91	20.17	1.13	8.59	9.72	-14.05	1.96	20.18	1.13	8.09	9.22
	62	0.00	-13.49	1.91	20.17	1.13	8.59	9.72	-13.96	1.96	20.18	1.13	8.18	9.31
5270	61	0.00	-13.52	1.92	20.17	1.13	8.57	9.70	-13.96	1.98	20.18	1.13	8.19	9.32
	62	0.00	-13.50	1.92	20.17	1.13	8.59	9.72	-13.89	1.98	20.18	1.13	8.26	9.39
5310	61	0.00	-13.38	1.92	20.17	1.13	8.71	9.84	-14.11	1.98	20.18	1.13	8.04	9.17
	62	0.00	-13.40	1.92	20.17	1.13	8.69	9.82	-14.02	1.98	20.18	1.13	8.13	9.26

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 31, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	61	6.85	7.35	14.20	11.52	23.97	12.45	8.88	9.53	18.42	12.65	29.97	17.32
	62	6.74	7.30	14.04	11.47	23.97	12.50	8.74	9.47	18.21	12.60	29.97	17.37
5550	61	6.44	7.17	13.61	11.34	23.97	12.63	8.36	9.30	17.66	12.47	29.97	17.50
	62	6.67	7.34	14.01	11.46	23.97	12.51	8.65	9.52	18.17	12.59	29.97	17.38
5670	61	6.06	6.60	12.66	11.02	23.97	12.95	7.86	8.56	16.42	12.15	29.97	17.82
	62	5.98	6.60	12.58	11.00	23.97	12.97	7.76	8.56	16.31	12.13	29.97	17.84
5710	61	6.24	6.19	12.43	10.94	23.97	13.03	8.09	8.03	16.12	12.07	29.97	17.90
	62	6.27	6.39	12.66	11.02	23.97	12.95	8.13	8.29	16.42	12.15	29.97	17.82
5755	61	7.04	7.36	14.40	11.58	30.00	18.42	9.13	9.55	18.68	12.71	36.00	23.29
	62	7.22	7.38	14.60	11.64	30.00	18.36	9.37	9.57	18.94	12.77	36.00	23.23
5795	61	7.26	7.50	14.76	11.69	30.00	18.31	9.42	9.72	19.14	12.82	36.00	23.18
	62	7.43	7.57	15.00	11.76	30.00	18.24	9.64	9.81	19.45	12.89	36.00	23.11

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5510	61	0.00	-13.77	1.96	20.17	1.13	8.36	9.49	-13.56	2.05	20.17	1.13	8.66	9.79
	62	0.00	-13.84	1.96	20.17	1.13	8.29	9.42	-13.59	2.05	20.17	1.13	8.63	9.76
5550	61	0.00	-14.03	1.96	20.16	1.13	8.09	9.22	-13.66	2.04	20.17	1.13	8.55	9.68
	62	0.00	-13.88	1.96	20.16	1.13	8.24	9.37	-13.56	2.04	20.17	1.13	8.65	9.78
5670	61	0.00	-14.28	1.94	20.16	1.13	7.83	8.96	-14.00	2.02	20.17	1.13	8.19	9.32
	62	0.00	-14.34	1.94	20.16	1.13	7.77	8.90	-14.00	2.02	20.17	1.13	8.19	9.32
5710	61	0.00	-14.15	1.94	20.16	1.13	7.95	9.08	-14.27	2.01	20.17	1.13	7.92	9.05
	62	0.00	-14.13	1.94	20.16	1.13	7.97	9.10	-14.13	2.01	20.17	1.13	8.06	9.19
5755	61	0.00	-13.66	1.98	20.16	1.13	8.48	9.61	-13.55	2.05	20.17	1.13	8.67	9.80
	62	0.00	-13.55	1.98	20.16	1.13	8.59	9.72	-13.54	2.05	20.17	1.13	8.68	9.81
5795	61	0.00	-13.52	1.97	20.16	1.13	8.61	9.74	-13.46	2.03	20.17	1.13	8.75	9.88
	62	0.00	-13.42	1.97	20.16	1.13	8.71	9.84	-13.42	2.03	20.17	1.13	8.79	9.92

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	61	7.18	6.37	13.55	11.32	23.97	12.65	8.07	8.27	16.34	12.13	29.97	17.84
	62	6.78	6.23	13.01	11.14	23.97	12.83	7.62	8.08	15.70	11.96	29.97	18.01
5230	61	6.68	5.99	12.68	11.03	23.97	12.94	7.52	7.77	15.29	11.84	29.97	18.13
	62	6.74	6.15	12.89	11.10	23.97	12.87	7.59	7.97	15.56	11.92	29.97	18.05
5270	61	7.11	6.97	14.08	11.48	23.97	12.49	7.99	9.04	17.03	12.31	29.97	17.66
	62	7.21	7.00	14.21	11.52	23.97	12.45	8.11	9.08	17.18	12.35	29.97	17.62
5310	61	7.32	6.80	14.12	11.50	23.97	12.47	8.23	8.82	17.05	12.32	29.97	17.65
	62	7.34	6.72	14.06	11.48	23.97	12.49	8.25	8.72	16.97	12.30	29.97	17.67

			5G_CH0					5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter	Cable Loss	Atten. Loss	Antenna Gain	Result	
			Reading				Cond. Power	e.i.r.p.	Reading				Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	61	0.00	-13.52	1.91	20.17	0.51	8.56	9.07	-14.09	1.96	20.18	1.13	8.04	9.17
	62	0.00	-13.77	1.91	20.17	0.51	8.31	8.82	-14.19	1.96	20.18	1.13	7.94	9.07
5230	61	0.00	-13.83	1.91	20.17	0.51	8.25	8.76	-14.36	1.96	20.18	1.13	7.78	8.91
	62	0.00	-13.79	1.91	20.17	0.51	8.29	8.80	-14.25	1.96	20.18	1.13	7.89	9.02
5270	61	0.00	-13.57	1.92	20.17	0.51	8.52	9.03	-13.72	1.98	20.18	1.13	8.43	9.56
	62	0.00	-13.51	1.92	20.17	0.51	8.58	9.09	-13.70	1.98	20.18	1.13	8.45	9.58
5310	61	0.00	-13.44	1.92	20.17	0.51	8.65	9.16	-13.83	1.98	20.18	1.13	8.32	9.45
	62	0.00	-13.43	1.92	20.17	0.51	8.66	9.17	-13.88	1.98	20.18	1.13	8.27	9.40

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 242-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5510	61	6.93	7.57	14.50	11.61	23.97	12.36	7.79	9.82	17.61	12.46	29.97	17.51
	62	7.06	7.48	14.54	11.63	23.97	12.34	7.94	9.71	17.65	12.47	29.97	17.50
5550	61	6.73	7.40	14.14	11.50	23.97	12.47	7.57	9.60	17.17	12.35	29.97	17.62
	62	6.70	7.66	14.36	11.57	23.97	12.40	7.54	9.94	17.48	12.42	29.97	17.55
5670	61	6.12	6.83	12.95	11.12	23.97	12.85	6.88	8.86	15.74	11.97	29.97	18.00
	62	6.19	6.89	13.08	11.17	23.97	12.80	6.96	8.94	15.90	12.01	29.97	17.96
5710	61	6.38	6.56	12.94	11.12	23.97	12.85	7.18	8.50	15.68	11.95	29.97	18.02
	62	6.44	6.63	13.07	11.16	23.97	12.81	7.25	8.60	15.85	12.00	29.97	17.97
5755	61	6.50	6.68	13.18	11.20	30.00	18.80	7.30	8.67	15.98	12.03	36.00	23.97
	62	6.56	6.87	13.43	11.28	30.00	18.72	7.37	8.91	16.29	12.12	36.00	23.88
5795	61	6.56	6.93	13.49	11.30	30.00	18.70	7.38	8.99	16.37	12.14	36.00	23.86
	62	6.58	6.98	13.56	11.32	30.00	18.68	7.40	9.05	16.45	12.16	36.00	23.84

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5510	61	0.00	-13.72	1.96	20.17	0.51	8.41	8.92	-13.43	2.05	20.17	1.13	8.79	9.92
	62	0.00	-13.64	1.96	20.17	0.51	8.49	9.00	-13.48	2.05	20.17	1.13	8.74	9.87
5550	61	0.00	-13.84	1.96	20.16	0.51	8.28	8.79	-13.52	2.04	20.17	1.13	8.69	9.82
	62	0.00	-13.86	1.96	20.16	0.51	8.26	8.77	-13.37	2.04	20.17	1.13	8.84	9.97
5670	61	0.00	-14.24	1.94	20.16	0.51	7.87	8.38	-13.85	2.02	20.17	1.13	8.34	9.47
	62	0.00	-14.19	1.94	20.16	0.51	7.92	8.43	-13.81	2.02	20.17	1.13	8.38	9.51
5710	61	0.00	-14.05	1.94	20.16	0.51	8.05	8.56	-14.02	2.01	20.17	1.13	8.17	9.30
	62	0.00	-14.01	1.94	20.16	0.51	8.09	8.60	-13.97	2.01	20.17	1.13	8.22	9.35
5755	61	0.00	-14.01	1.98	20.16	0.51	8.13	8.64	-13.97	2.05	20.17	1.13	8.25	9.38
	62	0.00	-13.97	1.98	20.16	0.51	8.17	8.68	-13.85	2.05	20.17	1.13	8.37	9.50
5795	61	0.00	-13.96	1.97	20.16	0.51	8.17	8.68	-13.80	2.03	20.17	1.13	8.41	9.54
	62	0.00	-13.95	1.97	20.16	0.51	8.18	8.69	-13.77	2.03	20.17	1.13	8.44	9.57

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (41.660 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 484-tone RU (CDD)

[Standard Power mode]

11ax-40 (OFDMA)(CDD) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	65	7.55	6.78	14.33	11.56	23.97	12.41	9.80	8.80	18.59	12.69	29.97	17.28
5230	65	7.43	6.90	14.33	11.56	23.97	12.41	9.64	8.95	18.58	12.69	29.97	17.28
5270	65	7.09	6.90	14.00	11.46	23.97	12.51	9.20	8.95	18.15	12.59	29.97	17.38
5310	65	7.44	6.64	14.08	11.49	23.97	12.48	9.65	8.62	18.27	12.62	29.97	17.35
5510	65	6.99	7.25	14.24	11.54	23.97	12.43	9.07	9.40	18.47	12.67	29.97	17.30
5550	65	6.87	7.01	13.88	11.42	23.97	12.55	8.92	9.09	18.00	12.55	29.97	17.42
5670	65	6.26	6.97	13.23	11.22	23.97	12.75	8.12	9.04	17.16	12.35	29.97	17.62
5710	65	6.50	6.62	13.12	11.18	23.97	12.79	8.44	8.58	17.02	12.31	29.97	17.66
5755	65	7.29	7.71	15.00	11.76	30.00	18.24	9.45	10.00	19.46	12.89	36.00	23.11
5795	65	7.60	7.64	15.24	11.83	30.00	18.17	9.86	9.90	19.77	12.96	36.00	23.04

		5G_CH0								5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result			
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]		
5190	65	0.00	-13.30	1.91	20.17	1.13	8.78	9.91	-13.82	1.96	20.18	1.13	8.31	9.44		
5230	65	0.00	-13.37	1.91	20.17	1.13	8.71	9.84	-13.75	1.96	20.18	1.13	8.39	9.52		
5270	65	0.00	-13.58	1.92	20.17	1.13	8.51	9.64	-13.76	1.98	20.18	1.13	8.39	9.52		
5310	65	0.00	-13.37	1.92	20.17	1.13	8.72	9.85	-13.93	1.98	20.18	1.13	8.22	9.35		
5510	65	0.00	-13.68	1.96	20.17	1.13	8.45	9.58	-13.62	2.05	20.17	1.13	8.60	9.73		
5550	65	0.00	-13.75	1.96	20.16	1.13	8.37	9.50	-13.76	2.04	20.17	1.13	8.45	9.58		
5670	65	0.00	-14.14	1.94	20.16	1.13	7.97	9.10	-13.76	2.02	20.17	1.13	8.43	9.56		
5710	65	0.00	-13.97	1.94	20.16	1.13	8.13	9.26	-13.98	2.01	20.17	1.13	8.21	9.34		
5755	65	0.00	-13.51	1.98	20.16	1.13	8.63	9.76	-13.35	2.05	20.17	1.13	8.87	10.00		
5795	65	0.00	-13.32	1.97	20.16	1.13	8.81	9.94	-13.38	2.03	20.17	1.13	8.83	9.96		

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (43.267 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40 (OFDMA) 484-tone RU (SDM)

[Standard Power mode]

11ax-40 (OFDMA)(SDM) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5190	65	7.75	6.97	14.72	11.68	23.97	12.29	8.71	9.04	17.75	12.49	29.97	17.48
5230	65	7.48	6.77	14.25	11.54	23.97	12.43	8.41	8.78	17.20	12.35	29.97	17.62
5270	65	7.26	7.00	14.26	11.54	23.97	12.43	8.16	9.08	17.24	12.37	29.97	17.60
5310	65	7.44	6.83	14.27	11.54	23.97	12.43	8.37	8.86	17.23	12.36	29.97	17.61
5510	65	7.09	7.47	14.56	11.63	23.97	12.34	7.97	9.69	17.66	12.47	29.97	17.50
5550	65	6.78	7.61	14.39	11.58	23.97	12.39	7.62	9.87	17.50	12.43	29.97	17.54
5670	65	6.23	7.02	13.25	11.22	23.97	12.75	7.01	9.11	16.11	12.07	29.97	17.90
5710	65	6.56	6.82	13.38	11.26	23.97	12.71	7.38	8.84	16.22	12.10	29.97	17.87
5755	65	7.36	7.60	14.96	11.75	30.00	18.25	8.27	9.86	18.14	12.59	36.00	23.41
5795	65	7.71	7.74	15.45	11.89	30.00	18.11	8.67	10.04	18.71	12.72	36.00	23.28

			5G_CH0						5G_CH1					
Tested	RU	Duty	Power	Cable	Atten.	Antenna	Result		Power	Cable	Atten.	Antenna	Result	
Frequency	Index	Factor	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.	Meter	Loss	Loss	Gain	Cond.	e.i.r.p.
[MHz]		*1) [dB]	Reading [dBm]	[dB]	[dB]	[dBi]	Power [dBm]	[dBm]	Reading [dBm]	[dB]	[dB]	[dBi]	Power [dBm]	[dBm]
5190	65	0.00	-13.19	1.91	20.17	0.51	8.89	9.40	-13.70	1.96	20.18	1.13	8.43	9.56
5230	65	0.00	-13.34	1.91	20.17	0.51	8.74	9.25	-13.83	1.96	20.18	1.13	8.31	9.44
5270	65	0.00	-13.48	1.92	20.17	0.51	8.61	9.12	-13.70	1.98	20.18	1.13	8.45	9.58
5310	65	0.00	-13.37	1.92	20.17	0.51	8.72	9.23	-13.81	1.98	20.18	1.13	8.34	9.47
5510	65	0.00	-13.62	1.96	20.17	0.51	8.51	9.02	-13.49	2.05	20.17	1.13	8.73	9.86
5550	65	0.00	-13.81	1.96	20.16	0.51	8.31	8.82	-13.40	2.04	20.17	1.13	8.81	9.94
5670	65	0.00	-14.16	1.94	20.16	0.51	7.95	8.46	-13.73	2.02	20.17	1.13	8.46	9.59
5710	65	0.00	-13.93	1.94	20.16	0.51	8.17	8.68	-13.85	2.01	20.17	1.13	8.34	9.47
5755	65	0.00	-13.47	1.98	20.16	0.51	8.67	9.18	-13.41	2.05	20.17	1.13	8.81	9.94
5795	65	0.00	-13.26	1.97	20.16	0.51	8.87	9.38	-13.32	2.03	20.17	1.13	8.89	10.02

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (43.267 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-80 (CDD)

[Standard Power mode]

11ac-80 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5210	6.63	5.58	12.21	10.87	23.97	13.10	8.60	7.24	15.84	12.00	29.97	17.97
5290	7.13	6.25	13.39	11.27	23.97	12.70	9.25	8.11	17.36	12.40	29.97	17.57
5530	7.15	7.12	14.27	11.55	23.97	12.42	9.28	9.24	18.52	12.68	29.97	17.29
5610	7.20	7.29	14.49	11.61	23.97	12.36	9.34	9.46	18.80	12.74	29.97	17.23
5690	7.29	6.28	13.58	11.33	23.97	12.64	9.46	8.15	17.61	12.46	29.97	17.51
5775	7.81	7.04	14.85	11.72	30.00	18.28	10.13	9.13	19.26	12.85	36.00	23.15

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5210	0.00	-13.86	1.91	20.17	1.13	8.22	9.35	-14.66	1.95	20.18	1.13	7.47	8.60
5290	0.00	-13.55	1.91	20.17	1.13	8.53	9.66	-14.18	1.96	20.18	1.13	7.96	9.09
5530	0.00	-13.58	1.96	20.17	1.13	8.54	9.67	-13.69	2.04	20.17	1.13	8.53	9.66
5610	0.00	-13.54	1.95	20.17	1.13	8.57	9.70	-13.57	2.03	20.17	1.13	8.63	9.76
5690	0.00	-13.47	1.93	20.17	1.13	8.63	9.76	-14.20	2.01	20.17	1.13	7.98	9.11
5775	0.00	-13.20	1.96	20.17	1.13	8.93	10.06	-13.73	2.03	20.17	1.13	8.47	9.60

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (88.351 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ac-80 (SDM)

[Standard Power mode]

11ac-80 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5210	7.48	6.66	14.14	11.50	23.97	12.47	8.41	8.64	17.05	12.32	29.97	17.65
5290	7.21	6.39	13.60	11.33	23.97	12.64	8.11	8.28	16.40	12.15	29.97	17.82
5530	7.20	7.04	14.24	11.54	23.97	12.43	8.10	9.13	17.23	12.36	29.97	17.61
5610	7.13	7.05	14.18	11.52	23.97	12.45	8.02	9.14	17.16	12.35	29.97	17.62
5690	7.26	6.33	13.59	11.33	23.97	12.64	8.17	8.21	16.37	12.14	29.97	17.83
5775	7.81	7.00	14.82	11.71	30.00	18.29	8.79	9.08	17.87	12.52	36.00	23.48

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]
5210	0.00	-13.34	1.91	20.17	0.51	8.74	9.25	-13.89	1.95	20.18	1.13	8.24	9.37
5290	0.00	-13.50	1.91	20.17	0.51	8.58	9.09	-14.09	1.96	20.18	1.13	8.05	9.18
5530	0.00	-13.55	1.96	20.17	0.51	8.57	9.08	-13.74	2.04	20.17	1.13	8.48	9.61
5610	0.00	-13.58	1.95	20.17	0.51	8.53	9.04	-13.72	2.03	20.17	1.13	8.48	9.61
5690	0.00	-13.49	1.93	20.17	0.51	8.61	9.12	-14.17	2.01	20.17	1.13	8.01	9.14
5775	0.00	-13.20	1.96	20.17	0.51	8.93	9.44	-13.75	2.03	20.17	1.13	8.45	9.58

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (88.351 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-80 (OFDM) (CDD)

[Standard Power mode]

11ax-80 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	5G_CH0 [mW]	Antenna 5G_CH1 [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5210	6.98	5.83	12.81	11.07	23.97	12.90	9.05	7.56	16.61	12.20	29.97	17.77
5290	7.18	6.46	13.64	11.35	23.97	12.62	9.31	8.38	17.69	12.48	29.97	17.49
5530	7.22	7.32	14.54	11.63	23.97	12.34	9.36	9.50	18.86	12.76	29.97	17.21
5610	7.30	7.24	14.54	11.63	23.97	12.34	9.47	9.40	18.86	12.76	29.97	17.21
5690	7.38	6.56	13.94	11.44	23.97	12.53	9.57	8.51	18.09	12.57	29.97	17.40
5775	7.90	7.10	15.00	11.76	30.00	18.24	10.25	9.21	19.46	12.89	36.00	23.11

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5210	0.00	-13.64	1.91	20.17	1.13	8.44	9.57	-14.47	1.95	20.18	1.13	7.66	8.79
5290	0.00	-13.52	1.91	20.17	1.13	8.56	9.69	-14.04	1.96	20.18	1.13	8.10	9.23
5530	0.00	-13.54	1.96	20.17	1.13	8.58	9.71	-13.57	2.04	20.17	1.13	8.65	9.78
5610	0.00	-13.48	1.95	20.17	1.13	8.63	9.76	-13.60	2.03	20.17	1.13	8.60	9.73
5690	0.00	-13.42	1.93	20.17	1.13	8.68	9.81	-14.01	2.01	20.17	1.13	8.17	9.30
5775	0.00	-13.15	1.96	20.17	1.13	8.98	10.11	-13.69	2.03	20.17	1.13	8.51	9.64

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (85.949 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.2 Measurement Room
Date July 21, 2023
Temperature / Humidity 24 deg. C / 46 % RH
Engineer Ken Fujita
Mode Tx 11ax-80 (OFDM) (SDM)

[Standard Power mode]

11ax-80 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	5G_CH0	5G_CH1	Sum	Result	Limit	Margin	5G_CH0	5G_CH1	Sum	Result	Limit	Margin
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	7.49	6.71	14.20	11.52	23.97	12.45	8.43	8.70	17.13	12.34	29.97	17.63
5290	7.08	6.52	13.60	11.34	23.97	12.63	7.96	8.46	16.42	12.15	29.97	17.82
5530	7.10	7.12	14.22	11.53	23.97	12.44	7.99	9.24	17.23	12.36	29.97	17.61
5610	7.35	7.53	14.88	11.73	23.97	12.24	8.26	9.77	18.03	12.56	29.97	17.41
5690	7.38	6.50	13.88	11.42	23.97	12.55	8.30	8.44	16.74	12.24	29.97	17.73
5775	7.88	7.02	14.90	11.73	30.00	18.27	8.87	9.11	17.97	12.55	36.00	23.45

5G_CH0							5G_CH1						
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]
5210	0.00	-13.33	1.91	20.17	0.51	8.75	9.26	-13.86	1.95	20.18	1.13	8.27	9.40
5290	0.00	-13.58	1.91	20.17	0.51	8.50	9.01	-14.00	1.96	20.18	1.13	8.14	9.27
5530	0.00	-13.61	1.96	20.17	0.51	8.51	9.02	-13.69	2.04	20.17	1.13	8.53	9.66
5610	0.00	-13.45	1.95	20.17	0.51	8.66	9.17	-13.43	2.03	20.17	1.13	8.77	9.90
5690	0.00	-13.42	1.93	20.17	0.51	8.68	9.19	-14.05	2.01	20.17	1.13	8.13	9.26
5775	0.00	-13.16	1.96	20.17	0.51	8.97	9.48	-13.74	2.03	20.17	1.13	8.46	9.59

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (85.949 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 26-tone RU (CDD)

[Standard Power mode]

11ax-80 (OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5290	0	7.11	6.50	13.61	11.34	23.97	12.63	9.22	8.44	17.66	12.47	29.97	17.50
	18	6.76	6.17	12.93	11.11	23.97	12.86	8.76	8.00	16.77	12.24	29.97	17.73
	36	7.22	6.02	13.24	11.22	23.97	12.75	9.37	7.80	17.17	12.35	29.97	17.62
5530	0	6.97	7.26	14.23	11.53	23.97	12.44	9.04	9.41	18.46	12.66	29.97	17.31
	18	7.10	6.82	13.92	11.44	23.97	12.53	9.21	8.85	18.06	12.57	29.97	17.40
	36	7.09	7.24	14.33	11.56	23.97	12.41	9.19	9.39	18.58	12.69	29.97	17.28
5610	0	7.37	7.20	14.57	11.63	23.97	12.34	9.56	9.34	18.90	12.76	29.97	17.21
	18	7.15	7.02	14.17	11.51	23.97	12.46	9.28	9.11	18.38	12.64	29.97	17.33
	36	7.58	7.32	14.89	11.73	23.97	12.24	9.83	9.49	19.32	12.86	29.97	17.11
5690	0	7.17	6.24	13.40	11.27	23.97	12.70	9.30	8.09	17.39	12.40	29.97	17.57
	18	7.15	6.29	13.45	11.29	23.97	12.68	9.28	8.16	17.44	12.42	29.97	17.55
	36	7.44	6.64	14.07	11.48	23.97	12.49	9.65	8.61	18.26	12.61	29.97	17.36
5775	0	6.99	5.89	12.88	11.10	30.00	18.90	9.06	7.65	16.71	12.23	29.97	17.74
	18	6.86	5.94	12.79	11.07	30.00	18.93	8.90	7.70	16.60	12.20	29.97	17.77
	36	7.25	6.48	13.73	11.38	30.00	18.62	9.40	8.40	17.81	12.51	29.97	17.46

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5290	0	0.00	-13.57	1.92	20.17	1.13	8.52	9.65	-14.02	1.98	20.18	1.13	8.13	9.26	
	18	0.00	-13.79	1.92	20.17	1.13	8.30	9.43	-14.25	1.98	20.18	1.13	7.90	9.03	
	36	0.00	-13.50	1.92	20.17	1.13	8.59	9.72	-14.36	1.98	20.18	1.13	7.79	8.92	
5530	0	0.00	-13.69	1.96	20.17	1.13	8.43	9.56	-13.61	2.04	20.17	1.13	8.61	9.74	
	18	0.00	-13.61	1.96	20.17	1.13	8.51	9.64	-13.88	2.04	20.17	1.13	8.34	9.47	
	36	0.00	-13.62	1.96	20.17	1.13	8.50	9.63	-13.62	2.04	20.17	1.13	8.60	9.73	
5610	0	0.00	-13.44	1.95	20.16	1.13	8.67	9.80	-13.63	2.03	20.17	1.13	8.57	9.70	
	18	0.00	-13.57	1.95	20.16	1.13	8.54	9.67	-13.74	2.03	20.17	1.13	8.46	9.59	
	36	0.00	-13.32	1.95	20.16	1.13	8.79	9.92	-13.56	2.03	20.17	1.13	8.64	9.77	
5690	0	0.00	-13.55	1.94	20.16	1.13	8.55	9.68	-14.24	2.02	20.17	1.13	7.95	9.08	
	18	0.00	-13.56	1.94	20.16	1.13	8.54	9.67	-14.20	2.02	20.17	1.13	7.99	9.12	
	36	0.00	-13.39	1.94	20.16	1.13	8.71	9.84	-13.97	2.02	20.17	1.13	8.22	9.35	
5775	0	0.00	-13.69	1.97	20.16	1.13	8.44	9.57	-14.51	2.04	20.17	1.13	7.70	8.83	
	18	0.00	-13.77	1.97	20.16	1.13	8.36	9.49	-14.48	2.04	20.17	1.13	7.73	8.86	
	36	0.00	-13.53	1.97	20.16	1.13	8.60	9.73	-14.10	2.04	20.17	1.13	8.11	9.24	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (78.398 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 26-tone RU (SDM)

[Standard Power mode]

11ax-80 (OFDMA)(SDM) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5290	0	7.53	6.45	13.97	11.45	23.97	12.52	8.47	8.36	16.83	12.26	29.97	17.71
	18	7.46	6.37	13.83	11.41	23.97	12.56	8.39	8.26	16.65	12.22	29.97	17.75
	36	7.62	6.57	14.18	11.52	23.97	12.45	8.56	8.52	17.08	12.33	29.97	17.64
5530	0	7.52	6.96	14.49	11.61	23.97	12.36	8.46	9.03	17.49	12.43	29.97	17.54
	18	7.32	7.03	14.35	11.57	23.97	12.40	8.23	9.12	17.35	12.39	29.97	17.58
	36	7.63	7.46	15.09	11.79	23.97	12.18	8.58	9.68	18.26	12.61	29.97	17.36
5610	0	7.37	7.20	14.57	11.63	23.97	12.34	8.29	9.34	17.63	12.46	29.97	17.51
	18	7.39	7.33	14.72	11.68	23.97	12.29	8.31	9.51	17.82	12.51	29.97	17.46
	36	7.79	7.66	15.45	11.89	23.97	12.08	8.76	9.94	18.70	12.72	29.97	17.25
5690	0	7.68	6.40	14.08	11.49	23.97	12.48	8.64	8.30	16.93	12.29	29.97	17.68
	18	7.47	6.35	13.82	11.41	23.97	12.56	8.40	8.24	16.64	12.21	29.97	17.76
	36	7.86	6.98	14.84	11.71	23.97	12.26	8.84	9.06	17.89	12.53	29.97	17.44
5775	0	6.80	5.99	12.79	11.07	30.00	18.93	7.64	7.77	15.41	11.88	29.97	18.09
	18	7.12	6.12	13.23	11.22	30.00	18.78	8.00	7.93	15.94	12.02	29.97	17.95
	36	7.64	6.74	14.38	11.58	30.00	18.42	8.60	8.74	17.33	12.39	29.97	17.58

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5290	0	0.00	-13.32	1.92	20.17	0.51	8.77	9.28	-14.06	1.98	20.18	1.13	8.09	9.22
	18	0.00	-13.36	1.92	20.17	0.51	8.73	9.24	-14.11	1.98	20.18	1.13	8.04	9.17
	36	0.00	-13.27	1.92	20.17	0.51	8.82	9.33	-13.98	1.98	20.18	1.13	8.17	9.30
5530	0	0.00	-13.36	1.96	20.17	0.51	8.76	9.27	-13.79	2.04	20.17	1.13	8.43	9.56
	18	0.00	-13.48	1.96	20.17	0.51	8.64	9.15	-13.75	2.04	20.17	1.13	8.47	9.60
	36	0.00	-13.30	1.96	20.17	0.51	8.82	9.33	-13.49	2.04	20.17	1.13	8.73	9.86
5610	0	0.00	-13.44	1.95	20.16	0.51	8.67	9.18	-13.63	2.03	20.17	1.13	8.57	9.70
	18	0.00	-13.43	1.95	20.16	0.51	8.68	9.19	-13.55	2.03	20.17	1.13	8.65	9.78
	36	0.00	-13.20	1.95	20.16	0.51	8.91	9.42	-13.36	2.03	20.17	1.13	8.84	9.97
5690	0	0.00	-13.25	1.94	20.16	0.51	8.85	9.36	-14.13	2.02	20.17	1.13	8.06	9.19
	18	0.00	-13.37	1.94	20.16	0.51	8.73	9.24	-14.16	2.02	20.17	1.13	8.03	9.16
	36	0.00	-13.15	1.94	20.16	0.51	8.95	9.46	-13.75	2.02	20.17	1.13	8.44	9.57
5775	0	0.00	-13.81	1.97	20.16	0.51	8.32	8.83	-14.44	2.04	20.17	1.13	7.77	8.90
	18	0.00	-13.61	1.97	20.16	0.51	8.52	9.03	-14.35	2.04	20.17	1.13	7.86	8.99
	36	0.00	-13.30	1.97	20.16	0.51	8.83	9.34	-13.93	2.04	20.17	1.13	8.28	9.41

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) = 1 W

For all test frequencies, B was applied the minimum value (78.398 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 52-tone RU (CDD)

[Standard Power mode]

11ax-80 (OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5290	37	7.39	6.66	14.05	11.48	23.97	12.49	9.59	8.63	18.22	12.61	29.97	17.36
	44	7.31	6.73	14.04	11.47	23.97	12.50	9.48	8.73	18.21	12.60	29.97	17.37
	52	7.65	6.92	14.57	11.64	23.97	12.33	9.92	8.98	18.90	12.77	29.97	17.20
5530	37	6.91	6.62	13.53	11.31	23.97	12.66	8.96	8.59	17.55	12.44	29.97	17.53
	44	6.63	6.70	13.32	11.25	23.97	12.72	8.60	8.69	17.28	12.38	29.97	17.59
	52	6.89	7.09	13.99	11.46	23.97	12.51	8.94	9.20	18.14	12.59	29.97	17.38
5610	37	6.13	6.40	12.53	10.98	23.97	12.99	7.95	8.31	16.26	12.11	29.97	17.86
	44	6.19	6.52	12.71	11.04	23.97	12.93	8.02	8.46	16.48	12.17	29.97	17.80
	52	6.46	6.88	13.34	11.25	23.97	12.72	8.38	8.92	17.30	12.38	29.97	17.59
5690	37	6.03	5.74	11.77	10.71	23.97	13.26	7.82	7.45	15.27	11.84	29.97	18.13
	44	5.76	5.89	11.65	10.66	23.97	13.31	7.47	7.64	15.11	11.79	29.97	18.18
	52	6.07	6.17	12.24	10.88	23.97	13.09	7.88	8.00	15.87	12.01	29.97	17.96
5775	37	7.17	6.32	13.48	11.30	30.00	18.70	9.30	8.19	17.49	12.43	29.97	17.54
	44	7.18	6.42	13.60	11.34	30.00	18.66	9.32	8.33	17.64	12.47	29.97	17.50
	52	7.68	6.96	14.64	11.65	30.00	18.35	9.96	9.02	18.99	12.78	29.97	17.19

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5290	37	0.00	-13.40	1.92	20.17	1.13	8.69	9.82	-13.92	1.98	20.18	1.13	8.23	9.36	
	44	0.00	-13.45	1.92	20.17	1.13	8.64	9.77	-13.87	1.98	20.18	1.13	8.28	9.41	
	52	0.00	-13.25	1.92	20.17	1.13	8.84	9.97	-13.75	1.98	20.18	1.13	8.40	9.53	
5530	37	0.00	-13.73	1.96	20.17	1.13	8.39	9.52	-14.01	2.04	20.17	1.13	8.21	9.34	
	44	0.00	-13.91	1.96	20.17	1.13	8.21	9.34	-13.96	2.04	20.17	1.13	8.26	9.39	
	52	0.00	-13.74	1.96	20.17	1.13	8.38	9.51	-13.71	2.04	20.17	1.13	8.51	9.64	
5610	37	0.00	-14.24	1.95	20.16	1.13	7.87	9.00	-14.14	2.03	20.17	1.13	8.06	9.19	
	44	0.00	-14.20	1.95	20.16	1.13	7.91	9.04	-14.06	2.03	20.17	1.13	8.14	9.27	
	52	0.00	-14.01	1.95	20.16	1.13	8.10	9.23	-13.83	2.03	20.17	1.13	8.37	9.50	
5690	37	0.00	-14.30	1.94	20.16	1.13	7.80	8.93	-14.60	2.02	20.17	1.13	7.59	8.72	
	44	0.00	-14.50	1.94	20.16	1.13	7.60	8.73	-14.49	2.02	20.17	1.13	7.70	8.83	
	52	0.00	-14.27	1.94	20.16	1.13	7.83	8.96	-14.29	2.02	20.17	1.13	7.90	9.03	
5775	37	0.00	-13.58	1.97	20.16	1.13	8.55	9.68	-14.21	2.04	20.17	1.13	8.00	9.13	
	44	0.00	-13.57	1.97	20.16	1.13	8.56	9.69	-14.14	2.04	20.17	1.13	8.07	9.20	
	52	0.00	-13.28	1.97	20.16	1.13	8.85	9.98	-13.79	2.04	20.17	1.13	8.42	9.55	

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (79.379 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024
Temperature / Humidity 25 deg. C / 46 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80 (OFDMA) 52-tone RU (SDM)

[Standard Power mode]

11ax-80 (OFDMA)(SDM) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5290	37	7.48	6.36	13.83	11.41	23.97	12.56	8.41	8.25	16.65	12.22	29.97	17.75
	44	7.22	6.39	13.61	11.34	23.97	12.63	8.12	8.28	16.41	12.15	29.97	17.82
	52	7.43	6.30	13.72	11.37	23.97	12.60	8.35	8.17	16.52	12.18	29.97	17.79
5530	37	7.73	7.29	15.03	11.77	23.97	12.20	8.70	9.46	18.16	12.59	29.97	17.38
	44	7.34	7.04	14.38	11.58	23.97	12.39	8.25	9.14	17.39	12.40	29.97	17.57
	52	7.45	7.39	14.85	11.72	23.97	12.25	8.38	9.59	17.97	12.55	29.97	17.42
5610	37	7.45	7.22	14.67	11.66	23.97	12.31	8.38	9.36	17.74	12.49	29.97	17.48
	44	7.37	7.27	14.64	11.65	23.97	12.32	8.29	9.43	17.71	12.48	29.97	17.49
	52	7.84	7.64	15.49	11.90	23.97	12.07	8.82	9.92	18.74	12.73	29.97	17.24
5690	37	7.72	6.34	14.05	11.48	23.97	12.49	8.68	8.22	16.90	12.28	29.97	17.69
	44	7.56	6.56	14.12	11.50	23.97	12.47	8.50	8.51	17.01	12.31	29.97	17.66
	52	7.84	6.81	14.65	11.66	23.97	12.31	8.82	8.83	17.65	12.47	29.97	17.50
5775	37	7.23	6.14	13.38	11.26	30.00	18.74	8.13	7.97	16.10	12.07	29.97	17.90
	44	7.30	6.29	13.59	11.33	30.00	18.67	8.21	8.16	16.36	12.14	29.97	17.83
	52	7.73	6.60	14.33	11.56	30.00	18.44	8.70	8.56	17.25	12.37	29.97	17.60

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5290	37	0.00	-13.35	1.92	20.17	0.51	8.74	9.25	-14.12	1.98	20.18	1.13	8.03	9.16	
	44	0.00	-13.50	1.92	20.17	0.51	8.59	9.10	-14.10	1.98	20.18	1.13	8.05	9.18	
	52	0.00	-13.38	1.92	20.17	0.51	8.71	9.22	-14.16	1.98	20.18	1.13	7.99	9.12	
5530	37	0.00	-13.24	1.96	20.17	0.51	8.88	9.39	-13.59	2.04	20.17	1.13	8.63	9.76	
	44	0.00	-13.47	1.96	20.17	0.51	8.65	9.16	-13.74	2.04	20.17	1.13	8.48	9.61	
	52	0.00	-13.40	1.96	20.17	0.51	8.72	9.23	-13.53	2.04	20.17	1.13	8.69	9.82	
5610	37	0.00	-13.39	1.95	20.16	0.51	8.72	9.23	-13.62	2.03	20.17	1.13	8.58	9.71	
	44	0.00	-13.44	1.95	20.16	0.51	8.67	9.18	-13.59	2.03	20.17	1.13	8.61	9.74	
	52	0.00	-13.17	1.95	20.16	0.51	8.94	9.45	-13.37	2.03	20.17	1.13	8.83	9.96	
5690	37	0.00	-13.23	1.94	20.16	0.51	8.87	9.38	-14.17	2.02	20.17	1.13	8.02	9.15	
	44	0.00	-13.32	1.94	20.16	0.51	8.78	9.29	-14.02	2.02	20.17	1.13	8.17	9.30	
	52	0.00	-13.16	1.94	20.16	0.51	8.94	9.45	-13.86	2.02	20.17	1.13	8.33	9.46	
5775	37	0.00	-13.54	1.97	20.16	0.51	8.59	9.10	-14.33	2.04	20.17	1.13	7.88	9.01	
	44	0.00	-13.50	1.97	20.16	0.51	8.63	9.14	-14.23	2.04	20.17	1.13	7.98	9.11	
	52	0.00	-13.25	1.97	20.16	0.51	8.88	9.39	-14.02	2.04	20.17	1.13	8.19	9.32	

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) = 1 W

For all test frequencies, B was applied the minimum value (79.379 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* UNII-1 is the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 106-tone RU (CDD)

[Standard Power mode]

11ax-80 (OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	53	6.98	5.96	12.95	11.12	23.97	12.85	9.06	7.73	16.79	12.25	29.97	17.72
	56	6.64	5.85	12.49	10.97	23.97	13.00	8.61	7.59	16.20	12.10	29.97	17.87
	60	6.97	6.09	13.05	11.16	23.97	12.81	9.04	7.90	16.93	12.29	29.97	17.68
5290	53	7.04	6.55	13.59	11.33	23.97	12.64	9.13	8.50	17.63	12.46	29.97	17.51
	56	7.01	6.69	13.70	11.37	23.97	12.60	9.09	8.67	17.77	12.50	29.97	17.47
	60	7.32	6.99	14.31	11.56	23.97	12.41	9.50	9.06	18.56	12.69	29.97	17.28
5530	53	6.91	7.39	14.30	11.55	23.97	12.42	8.96	9.59	18.55	12.68	29.97	17.29
	56	6.88	7.46	14.34	11.56	23.97	12.41	8.92	9.68	18.60	12.69	29.97	17.28
	60	6.81	7.63	14.45	11.60	23.97	12.37	8.84	9.90	18.74	12.73	29.97	17.24
5610	53	6.27	7.33	13.61	11.34	23.97	12.63	8.14	9.51	17.65	12.47	29.97	17.50
	56	6.24	7.20	13.44	11.29	23.97	12.68	8.10	9.34	17.44	12.42	29.97	17.55
	60	6.51	7.57	14.08	11.49	23.97	12.48	8.44	9.83	18.27	12.62	29.97	17.35
5690	53	7.20	6.71	13.91	11.43	23.97	12.54	9.34	8.71	18.05	12.56	29.97	17.41
	56	6.94	6.58	13.52	11.31	23.97	12.66	9.00	8.53	17.53	12.44	29.97	17.53
	60	7.13	7.03	14.16	11.51	23.97	12.46	9.26	9.12	18.37	12.64	29.97	17.33
5775	53	6.43	6.19	12.62	11.01	30.00	18.99	8.34	8.02	16.37	12.14	29.97	17.83
	56	6.67	6.16	12.83	11.08	30.00	18.92	8.66	7.99	16.64	12.21	29.97	17.76
	60	7.00	6.61	13.62	11.34	30.00	18.66	9.08	8.58	17.66	12.47	29.97	17.50

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	53	0.00	-13.64	1.91	20.17	1.13	8.44	9.57	-14.38	1.96	20.18	1.13	7.75	8.88	
	56	0.00	-13.86	1.91	20.17	1.13	8.22	9.35	-14.46	1.96	20.18	1.13	7.67	8.80	
	60	0.00	-13.65	1.91	20.17	1.13	8.43	9.56	-14.29	1.96	20.18	1.13	7.84	8.97	
5290	53	0.00	-13.61	1.92	20.17	1.13	8.48	9.61	-13.99	1.98	20.18	1.13	8.16	9.29	
	56	0.00	-13.63	1.92	20.17	1.13	8.46	9.59	-13.90	1.98	20.18	1.13	8.25	9.38	
	60	0.00	-13.44	1.92	20.17	1.13	8.65	9.78	-13.71	1.98	20.18	1.13	8.44	9.57	
5530	53	0.00	-13.73	1.96	20.17	1.13	8.39	9.52	-13.53	2.04	20.17	1.13	8.69	9.82	
	56	0.00	-13.75	1.96	20.17	1.13	8.37	9.50	-13.49	2.04	20.17	1.13	8.73	9.86	
	60	0.00	-13.79	1.96	20.17	1.13	8.33	9.46	-13.39	2.04	20.17	1.13	8.83	9.96	
5610	53	0.00	-14.14	1.95	20.16	1.13	7.97	9.10	-13.55	2.03	20.17	1.13	8.65	9.78	
	56	0.00	-14.16	1.95	20.16	1.13	7.95	9.08	-13.63	2.03	20.17	1.13	8.57	9.70	
	60	0.00	-13.98	1.95	20.16	1.13	8.13	9.26	-13.41	2.03	20.17	1.13	8.79	9.92	
5690	53	0.00	-13.53	1.94	20.16	1.13	8.57	9.70	-13.92	2.02	20.17	1.13	8.27	9.40	
	56	0.00	-13.69	1.94	20.16	1.13	8.41	9.54	-14.01	2.02	20.17	1.13	8.18	9.31	
	60	0.00	-13.57	1.94	20.16	1.13	8.53	9.66	-13.72	2.02	20.17	1.13	8.47	9.60	
5775	53	0.00	-14.05	1.97	20.16	1.13	8.08	9.21	-14.30	2.04	20.17	1.13	7.91	9.04	
	56	0.00	-13.89	1.97	20.16	1.13	8.24	9.37	-14.32	2.04	20.17	1.13	7.89	9.02	
	60	0.00	-13.68	1.97	20.16	1.13	8.45	9.58	-14.01	2.04	20.17	1.13	8.20	9.33	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (80.329 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 106-tone RU (SDM)

[Standard Power mode]

11ax-80 (OFDMA)(SDM) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	53	7.50	6.80	14.30	11.55	23.97	12.42	8.43	8.82	17.25	12.37	29.97	17.60
	56	7.20	6.74	13.93	11.44	23.97	12.53	8.09	8.74	16.83	12.26	29.97	17.71
	60	7.62	6.78	14.40	11.59	23.97	12.38	8.57	8.80	17.37	12.40	29.97	17.57
5290	53	7.03	6.61	13.64	11.35	23.97	12.62	7.90	8.58	16.48	12.17	29.97	17.80
	56	6.93	6.48	13.40	11.27	23.97	12.70	7.79	8.40	16.19	12.09	29.97	17.88
	60	7.12	6.72	13.84	11.41	23.97	12.56	8.01	8.71	16.73	12.23	29.97	17.74
5530	53	6.92	7.19	14.12	11.50	23.97	12.47	7.79	9.33	17.12	12.33	29.97	17.64
	56	6.63	7.17	13.80	11.40	23.97	12.57	7.45	9.31	16.76	12.24	29.97	17.73
	60	6.72	7.67	14.39	11.58	23.97	12.39	7.56	9.95	17.51	12.43	29.97	17.54
5610	53	6.29	7.27	13.55	11.32	23.97	12.65	7.07	9.43	16.50	12.17	29.97	17.80
	56	6.46	7.28	13.75	11.38	23.97	12.59	7.27	9.45	16.72	12.23	29.97	17.74
	60	6.34	7.51	13.85	11.41	23.97	12.56	7.13	9.74	16.87	12.27	29.97	17.70
5690	53	6.94	6.71	13.65	11.35	23.97	12.62	7.81	8.71	16.51	12.18	29.97	17.79
	56	6.85	6.56	13.41	11.27	23.97	12.70	7.70	8.51	16.21	12.10	29.97	17.87
	60	7.23	6.82	14.06	11.48	23.97	12.49	8.14	8.85	16.99	12.30	29.97	17.67
5775	53	6.48	6.20	12.68	11.03	30.00	18.97	7.28	8.04	15.33	11.85	29.97	18.12
	56	6.66	6.21	12.87	11.10	30.00	18.90	7.49	8.06	15.55	11.92	29.97	18.05
	60	6.86	6.78	13.64	11.35	30.00	18.65	7.71	8.80	16.51	12.18	29.97	17.79

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	53	0.00	-13.33	1.91	20.17	0.51	8.75	9.26	-13.81	1.96	20.18	1.13	8.32	9.45	
	56	0.00	-13.51	1.91	20.17	0.51	8.57	9.08	-13.85	1.96	20.18	1.13	8.28	9.41	
	60	0.00	-13.26	1.91	20.17	0.51	8.82	9.33	-13.82	1.96	20.18	1.13	8.31	9.44	
5290	53	0.00	-13.62	1.92	20.17	0.51	8.47	8.98	-13.95	1.98	20.18	1.13	8.20	9.33	
	56	0.00	-13.68	1.92	20.17	0.51	8.41	8.92	-14.04	1.98	20.18	1.13	8.11	9.24	
	60	0.00	-13.56	1.92	20.17	0.51	8.53	9.04	-13.88	1.98	20.18	1.13	8.27	9.40	
5530	53	0.00	-13.72	1.96	20.17	0.51	8.40	8.91	-13.65	2.04	20.17	1.13	8.57	9.70	
	56	0.00	-13.91	1.96	20.17	0.51	8.21	8.72	-13.66	2.04	20.17	1.13	8.56	9.69	
	60	0.00	-13.85	1.96	20.17	0.51	8.27	8.78	-13.37	2.04	20.17	1.13	8.85	9.98	
5610	53	0.00	-14.13	1.95	20.16	0.51	7.98	8.49	-13.59	2.03	20.17	1.13	8.61	9.74	
	56	0.00	-14.01	1.95	20.16	0.51	8.10	8.61	-13.58	2.03	20.17	1.13	8.62	9.75	
	60	0.00	-14.09	1.95	20.16	0.51	8.02	8.53	-13.45	2.03	20.17	1.13	8.75	9.88	
5690	53	0.00	-13.69	1.94	20.16	0.51	8.41	8.92	-13.92	2.02	20.17	1.13	8.27	9.40	
	56	0.00	-13.75	1.94	20.16	0.51	8.35	8.86	-14.02	2.02	20.17	1.13	8.17	9.30	
	60	0.00	-13.51	1.94	20.16	0.51	8.59	9.10	-13.85	2.02	20.17	1.13	8.34	9.47	
5775	53	0.00	-14.02	1.97	20.16	0.51	8.11	8.62	-14.29	2.04	20.17	1.13	7.92	9.05	
	56	0.00	-13.90	1.97	20.16	0.51	8.23	8.74	-14.28	2.04	20.17	1.13	7.93	9.06	
	60	0.00	-13.77	1.97	20.16	0.51	8.36	8.87	-13.90	2.04	20.17	1.13	8.31	9.44	

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (80.329 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 242-tone RU (CDD)

[Standard Power mode]

11ax-80 (OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	61	7.50	6.63	14.13	11.50	23.97	12.47	9.73	8.60	18.33	12.63	29.97	17.34
	62	7.33	6.57	13.90	11.43	23.97	12.54	9.51	8.52	18.03	12.56	29.97	17.41
	64	7.36	6.74	14.10	11.49	23.97	12.48	9.55	8.74	18.29	12.62	29.97	17.35
5290	61	6.85	6.45	13.30	11.24	23.97	12.73	8.89	8.36	17.25	12.37	29.97	17.60
	62	6.88	6.48	13.36	11.26	23.97	12.71	8.93	8.40	17.33	12.39	29.97	17.58
	64	6.99	6.58	13.57	11.33	23.97	12.64	9.07	8.54	17.61	12.46	29.97	17.51
5530	61	6.58	7.21	13.79	11.40	23.97	12.57	8.54	9.35	17.89	12.53	29.97	17.44
	62	6.63	7.03	13.66	11.35	23.97	12.62	8.60	9.12	17.71	12.48	29.97	17.49
	64	6.80	7.27	14.07	11.48	23.97	12.49	8.82	9.44	18.25	12.61	29.97	17.36
5610	61	6.09	7.09	13.17	11.20	23.97	12.77	7.90	9.19	17.09	12.33	29.97	17.64
	62	6.11	7.00	13.12	11.18	23.97	12.79	7.93	9.09	17.02	12.31	29.97	17.66
	64	6.20	7.44	13.64	11.35	23.97	12.62	8.04	9.65	17.69	12.48	29.97	17.49
5690	61	6.80	6.61	13.40	11.27	23.97	12.70	8.82	8.57	17.39	12.40	29.97	17.57
	62	6.78	6.41	13.19	11.20	23.97	12.77	8.80	8.32	17.11	12.33	29.97	17.64
	64	7.04	6.73	13.77	11.39	23.97	12.58	9.13	8.73	17.86	12.52	29.97	17.45
5775	61	6.36	6.16	12.52	10.97	30.00	19.03	8.25	7.99	16.24	12.10	29.97	17.87
	62	6.40	6.19	12.59	11.00	30.00	19.00	8.30	8.02	16.33	12.13	29.97	17.84
	64	6.69	6.48	13.17	11.19	30.00	18.81	8.68	8.40	17.08	12.32	29.97	17.65

		5G_CH0							5G_CH1						
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5210	61	0.00	-13.33	1.91	20.17	1.13	8.75	9.88	-13.92	1.96	20.18	1.13	8.21	9.34	
	62	0.00	-13.43	1.91	20.17	1.13	8.65	9.78	-13.96	1.96	20.18	1.13	8.17	9.30	
	64	0.00	-13.41	1.91	20.17	1.13	8.67	9.80	-13.85	1.96	20.18	1.13	8.28	9.41	
5290	61	0.00	-13.73	1.92	20.17	1.13	8.36	9.49	-14.06	1.98	20.18	1.13	8.09	9.22	
	62	0.00	-13.71	1.92	20.17	1.13	8.38	9.51	-14.04	1.98	20.18	1.13	8.11	9.24	
	64	0.00	-13.64	1.92	20.17	1.13	8.45	9.58	-13.97	1.98	20.18	1.13	8.18	9.31	
5530	61	0.00	-13.94	1.96	20.17	1.13	8.18	9.31	-13.64	2.04	20.17	1.13	8.58	9.71	
	62	0.00	-13.91	1.96	20.17	1.13	8.21	9.34	-13.75	2.04	20.17	1.13	8.47	9.60	
	64	0.00	-13.80	1.96	20.17	1.13	8.32	9.45	-13.60	2.04	20.17	1.13	8.62	9.75	
5610	61	0.00	-14.27	1.95	20.16	1.13	7.84	8.97	-13.70	2.03	20.17	1.13	8.50	9.63	
	62	0.00	-14.25	1.95	20.16	1.13	7.86	8.99	-13.75	2.03	20.17	1.13	8.45	9.58	
	64	0.00	-14.19	1.95	20.16	1.13	7.92	9.05	-13.49	2.03	20.17	1.13	8.71	9.84	
5690	61	0.00	-13.78	1.94	20.16	1.13	8.32	9.45	-13.99	2.02	20.17	1.13	8.20	9.33	
	62	0.00	-13.79	1.94	20.16	1.13	8.31	9.44	-14.12	2.02	20.17	1.13	8.07	9.20	
	64	0.00	-13.63	1.94	20.16	1.13	8.47	9.60	-13.91	2.02	20.17	1.13	8.28	9.41	
5775	61	0.00	-14.10	1.97	20.16	1.13	8.03	9.16	-14.32	2.04	20.17	1.13	7.89	9.02	
	62	0.00	-14.07	1.97	20.16	1.13	8.06	9.19	-14.30	2.04	20.17	1.13	7.91	9.04	
	64	0.00	-13.88	1.97	20.16	1.13	8.25	9.38	-14.10	2.04	20.17	1.13	8.11	9.24	

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (82.999 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 242-tone RU (SDM)

[Standard Power mode]

11ax-80 (OFDMA)(SDM) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	61	7.66	6.61	14.27	11.54	23.97	12.43	8.61	8.58	17.19	12.35	29.97	17.62
	62	7.40	6.83	14.23	11.53	23.97	12.44	8.32	8.86	17.18	12.35	29.97	17.62
	64	7.73	6.91	14.64	11.65	23.97	12.32	8.69	8.96	17.65	12.47	29.97	17.50
5290	61	7.16	6.78	13.94	11.44	23.97	12.53	8.05	8.80	16.84	12.26	29.97	17.71
	62	7.09	6.66	13.75	11.38	23.97	12.59	7.97	8.63	16.61	12.20	29.97	17.77
	64	7.26	6.67	13.93	11.44	23.97	12.53	8.16	8.65	16.81	12.26	29.97	17.71
5530	61	6.88	7.24	14.12	11.50	23.97	12.47	7.73	9.39	17.13	12.34	29.97	17.63
	62	6.69	7.14	13.83	11.41	23.97	12.56	7.52	9.26	16.79	12.25	29.97	17.72
	64	6.88	7.60	14.48	11.61	23.97	12.36	7.73	9.86	17.59	12.45	29.97	17.52
5610	61	6.39	7.10	13.49	11.30	23.97	12.67	7.18	9.21	16.40	12.15	29.97	17.82
	62	6.61	6.99	13.60	11.34	23.97	12.63	7.44	9.07	16.50	12.18	29.97	17.79
	64	6.43	7.47	13.90	11.43	23.97	12.54	7.23	9.69	16.93	12.29	29.97	17.68
5690	61	6.92	6.53	13.45	11.29	23.97	12.68	7.79	8.47	16.26	12.11	29.97	17.86
	62	6.86	6.47	13.33	11.25	23.97	12.72	7.72	8.39	16.11	12.07	29.97	17.90
	64	6.94	6.82	13.76	11.39	23.97	12.58	7.81	8.85	16.66	12.22	29.97	17.75
5775	61	6.57	6.24	12.81	11.08	30.00	18.92	7.38	8.10	15.48	11.90	29.97	18.07
	62	6.52	6.16	12.68	11.03	30.00	18.97	7.33	7.99	15.32	11.85	29.97	18.12
	64	6.78	6.81	13.60	11.33	30.00	18.67	7.63	8.84	16.47	12.17	29.97	17.80

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5210	61	0.00	-13.24	1.91	20.17	0.51	8.84	9.35	-13.93	1.96	20.18	1.13	8.20	9.33
	62	0.00	-13.39	1.91	20.17	0.51	8.69	9.20	-13.79	1.96	20.18	1.13	8.34	9.47
	64	0.00	-13.20	1.91	20.17	0.51	8.88	9.39	-13.74	1.96	20.18	1.13	8.39	9.52
5290	61	0.00	-13.54	1.92	20.17	0.51	8.55	9.06	-13.84	1.98	20.18	1.13	8.31	9.44
	62	0.00	-13.58	1.92	20.17	0.51	8.51	9.02	-13.92	1.98	20.18	1.13	8.23	9.36
	64	0.00	-13.48	1.92	20.17	0.51	8.61	9.12	-13.91	1.98	20.18	1.13	8.24	9.37
5530	61	0.00	-13.75	1.96	20.17	0.51	8.37	8.88	-13.62	2.04	20.17	1.13	8.60	9.73
	62	0.00	-13.87	1.96	20.17	0.51	8.25	8.76	-13.68	2.04	20.17	1.13	8.54	9.67
	64	0.00	-13.75	1.96	20.17	0.51	8.37	8.88	-13.41	2.04	20.17	1.13	8.81	9.94
5610	61	0.00	-14.06	1.95	20.16	0.51	8.05	8.56	-13.69	2.03	20.17	1.13	8.51	9.64
	62	0.00	-13.91	1.95	20.16	0.51	8.20	8.71	-13.76	2.03	20.17	1.13	8.44	9.57
	64	0.00	-14.03	1.95	20.16	0.51	8.08	8.59	-13.47	2.03	20.17	1.13	8.73	9.86
5690	61	0.00	-13.70	1.94	20.16	0.51	8.40	8.91	-14.04	2.02	20.17	1.13	8.15	9.28
	62	0.00	-13.74	1.94	20.16	0.51	8.36	8.87	-14.08	2.02	20.17	1.13	8.11	9.24
	64	0.00	-13.69	1.94	20.16	0.51	8.41	8.92	-13.85	2.02	20.17	1.13	8.34	9.47
5775	61	0.00	-13.96	1.97	20.16	0.51	8.17	8.68	-14.26	2.04	20.17	1.13	7.95	9.08
	62	0.00	-13.99	1.97	20.16	0.51	8.14	8.65	-14.32	2.04	20.17	1.13	7.89	9.02
	64	0.00	-13.82	1.97	20.16	0.51	8.31	8.82	-13.88	2.04	20.17	1.13	8.33	9.46

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (82.999 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 484-tone RU (CDD)

[Standard Power mode]

11ax-80 (OFDMA)(CDD) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	65	7.45	6.61	14.06	11.48	23.97	12.49	9.66	8.58	18.24	12.61	29.97	17.36
	66	7.67	6.78	14.46	11.60	23.97	12.37	9.96	8.80	18.75	12.73	29.97	17.24
5290	65	7.07	6.76	13.84	11.41	23.97	12.56	9.18	8.77	17.95	12.54	29.97	17.43
	66	7.19	6.63	13.82	11.40	23.97	12.57	9.33	8.59	17.92	12.53	29.97	17.44
5530	65	6.92	7.09	14.02	11.47	23.97	12.50	8.98	9.20	18.18	12.60	29.97	17.37
	66	6.81	7.26	14.07	11.48	23.97	12.49	8.84	9.41	18.25	12.61	29.97	17.36
5610	65	6.39	7.17	13.56	11.32	23.97	12.65	8.29	9.30	17.58	12.45	29.97	17.52
	66	6.26	7.33	13.59	11.33	23.97	12.64	8.12	9.51	17.63	12.46	29.97	17.51
5690	65	6.96	6.58	13.53	11.31	23.97	12.66	9.02	8.53	17.55	12.44	29.97	17.53
	66	7.20	6.71	13.91	11.43	23.97	12.54	9.34	8.71	18.05	12.56	29.97	17.41
5775	65	6.46	6.20	12.66	11.02	30.00	18.98	8.38	8.04	16.42	12.15	29.97	17.82
	66	6.81	6.48	13.29	11.24	30.00	18.76	8.84	8.40	17.24	12.37	29.97	17.60

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
							Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	65	0.00	-13.36	1.91	20.17	1.13	8.72	9.85	-13.93	1.96	20.18	1.13	8.20	9.33
	66	0.00	-13.23	1.91	20.17	1.13	8.85	9.98	-13.82	1.96	20.18	1.13	8.31	9.44
5290	65	0.00	-13.59	1.92	20.17	1.13	8.50	9.63	-13.85	1.98	20.18	1.13	8.30	9.43
	66	0.00	-13.52	1.92	20.17	1.13	8.57	9.70	-13.94	1.98	20.18	1.13	8.21	9.34
5530	65	0.00	-13.72	1.96	20.17	1.13	8.40	9.53	-13.71	2.04	20.17	1.13	8.51	9.64
	66	0.00	-13.79	1.96	20.17	1.13	8.33	9.46	-13.61	2.04	20.17	1.13	8.61	9.74
5610	65	0.00	-14.06	1.95	20.16	1.13	8.05	9.18	-13.65	2.03	20.17	1.13	8.55	9.68
	66	0.00	-14.15	1.95	20.16	1.13	7.96	9.09	-13.55	2.03	20.17	1.13	8.65	9.78
5690	65	0.00	-13.68	1.94	20.16	1.13	8.42	9.55	-14.01	2.02	20.17	1.13	8.18	9.31
	66	0.00	-13.53	1.94	20.16	1.13	8.57	9.70	-13.92	2.02	20.17	1.13	8.27	9.40
5775	65	0.00	-14.03	1.97	20.16	1.13	8.10	9.23	-14.29	2.04	20.17	1.13	7.92	9.05
	66	0.00	-13.80	1.97	20.16	1.13	8.33	9.46	-14.10	2.04	20.17	1.13	8.11	9.24

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (85.488 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 484-tone RU (SDM)

[Standard Power mode]

11ax-80 (OFDMA)(SDM) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	65	7.60	6.63	14.23	11.53	23.97	12.44	8.55	8.60	17.15	12.34	29.97	17.63
	66	7.47	6.78	14.25	11.54	23.97	12.43	8.40	8.80	17.19	12.35	29.97	17.62
5290	65	7.04	6.58	13.62	11.34	23.97	12.63	7.92	8.54	16.46	12.16	29.97	17.81
	66	7.22	6.67	13.89	11.43	23.97	12.54	8.12	8.65	16.78	12.25	29.97	17.72
5530	65	6.78	7.26	14.04	11.47	23.97	12.50	7.63	9.41	17.04	12.32	29.97	17.65
	66	6.96	7.63	14.59	11.64	23.97	12.33	7.82	9.90	17.73	12.49	29.97	17.48
5610	65	6.37	7.10	13.48	11.30	23.97	12.67	7.17	9.21	16.38	12.14	29.97	17.83
	66	6.57	7.32	13.88	11.43	23.97	12.54	7.39	9.49	16.88	12.27	29.97	17.70
5690	65	7.09	6.56	13.65	11.35	23.97	12.62	7.97	8.51	16.48	12.17	29.97	17.80
	66	7.09	6.65	13.74	11.38	23.97	12.59	7.97	8.63	16.60	12.20	29.97	17.77
5775	65	6.66	6.20	12.86	11.09	30.00	18.91	7.49	8.04	15.53	11.91	29.97	18.06
	66	6.77	6.40	13.17	11.20	30.00	18.80	7.61	8.31	15.92	12.02	29.97	17.95

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]		[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5210	65	0.00	-13.27	1.91	20.17	0.51	8.81	9.32	-13.92	1.96	20.18	1.13	8.21	9.34
	66	0.00	-13.35	1.91	20.17	0.51	8.73	9.24	-13.82	1.96	20.18	1.13	8.31	9.44
5290	65	0.00	-13.61	1.92	20.17	0.51	8.48	8.99	-13.97	1.98	20.18	1.13	8.18	9.31
	66	0.00	-13.50	1.92	20.17	0.51	8.59	9.10	-13.91	1.98	20.18	1.13	8.24	9.37
5530	65	0.00	-13.81	1.96	20.17	0.51	8.31	8.82	-13.61	2.04	20.17	1.13	8.61	9.74
	66	0.00	-13.70	1.96	20.17	0.51	8.42	8.93	-13.39	2.04	20.17	1.13	8.83	9.96
5610	65	0.00	-14.07	1.95	20.16	0.51	8.04	8.55	-13.69	2.03	20.17	1.13	8.51	9.64
	66	0.00	-13.94	1.95	20.16	0.51	8.17	8.68	-13.56	2.03	20.17	1.13	8.64	9.77
5690	65	0.00	-13.60	1.94	20.16	0.51	8.50	9.01	-14.02	2.02	20.17	1.13	8.17	9.30
	66	0.00	-13.60	1.94	20.16	0.51	8.50	9.01	-13.96	2.02	20.17	1.13	8.23	9.36
5775	65	0.00	-13.90	1.97	20.16	0.51	8.23	8.74	-14.29	2.04	20.17	1.13	7.92	9.05
	66	0.00	-13.83	1.97	20.16	0.51	8.30	8.81	-14.15	2.04	20.17	1.13	8.06	9.19

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (85.488 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 996-tone RU (CDD)

[Standard Power mode]

11ax-80 (OFDMA)(CDD) 996-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power						e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	67	7.62	6.64	14.26	11.54	23.97	12.43	9.89	8.61	18.50	12.67	29.97	17.30
5290	67	7.17	6.55	13.72	11.37	23.97	12.60	9.31	8.49	17.80	12.50	29.97	17.47
5530	67	6.74	7.28	14.02	11.47	23.97	12.50	8.74	9.44	18.19	12.60	29.97	17.37
5610	67	6.36	7.32	13.67	11.36	23.97	12.61	8.24	9.49	17.74	12.49	29.97	17.48
5690	67	7.05	6.60	13.65	11.35	23.97	12.62	9.14	8.56	17.71	12.48	29.97	17.49
5775	67	7.76	7.31	15.07	11.78	30.00	18.22	10.06	9.49	19.55	12.91	36.00	23.09

			5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
							Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5210	67	0.00	-13.26	1.91	20.17	1.13	8.82	9.95	-13.91	1.96	20.18	1.13	8.22	9.35
5290	67	0.00	-13.53	1.92	20.17	1.13	8.56	9.69	-13.99	1.98	20.18	1.13	8.16	9.29
5530	67	0.00	-13.84	1.96	20.17	1.13	8.29	9.42	-13.60	2.05	20.17	1.13	8.62	9.75
5610	67	0.00	-14.09	1.96	20.16	1.13	8.03	9.16	-13.57	2.04	20.17	1.13	8.64	9.77
5690	67	0.00	-13.62	1.94	20.16	1.13	8.48	9.61	-13.99	2.01	20.17	1.13	8.20	9.33
5775	67	0.00	-13.24	1.98	20.16	1.13	8.90	10.03	-13.58	2.05	20.17	1.13	8.64	9.77

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (88.344 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 1, 2024
Temperature / Humidity 23 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80 (OFDMA) 996-tone RU (SDM)

[Standard Power mode]

11ax-80 (OFDMA)(SDM) 996-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	Conducted power							e.i.r.p.					
		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]		Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
		5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]					5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5210	67	7.62	6.78	14.40	11.58	23.97	12.39		8.57	8.80	17.37	12.40	29.97	17.57
5290	67	7.08	6.67	13.74	11.38	23.97	12.59		7.96	8.65	16.61	12.20	29.97	17.77
5530	67	6.80	7.64	14.44	11.60	23.97	12.37		7.65	9.91	17.56	12.45	29.97	17.52
5610	67	6.30	7.44	13.73	11.38	23.97	12.59		7.08	9.65	16.73	12.23	29.97	17.74
5690	67	7.07	6.66	13.73	11.38	23.97	12.59		7.95	8.64	16.59	12.20	29.97	17.77
5775	67	7.04	6.64	13.68	11.36	30.00	18.64		7.92	8.61	16.53	12.18	36.00	23.82

Tested Frequency [MHz]	RU Index	Duty Factor *1) [dB]	5G_CH0						5G_CH1					
			Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	Result e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Cond. Power [dBm]	Result e.i.r.p. [dBm]
5210	67	0.00	-13.26	1.91	20.17	0.51	8.82	9.33	-13.82	1.96	20.18	1.13	8.31	9.44
5290	67	0.00	-13.59	1.92	20.17	0.51	8.50	9.01	-13.91	1.98	20.18	1.13	8.24	9.37
5530	67	0.00	-13.80	1.96	20.17	0.51	8.33	8.84	-13.39	2.05	20.17	1.13	8.83	9.96
5610	67	0.00	-14.13	1.96	20.16	0.51	7.99	8.50	-13.50	2.04	20.17	1.13	8.71	9.84
5690	67	0.00	-13.61	1.94	20.16	0.51	8.49	9.00	-13.95	2.01	20.17	1.13	8.24	9.37
5775	67	0.00	-13.66	1.98	20.16	0.51	8.48	8.99	-14.00	2.05	20.17	1.13	8.22	9.35

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (88.344 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 24, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-160 (OFDM) (CDD)

[Standard Power mode]

11ax-160 (CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Conducted power						e.i.r.p.					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
[mW]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5250	7.88	7.19	15.07	11.78	23.97	12.19	10.22	9.33	19.55	12.91	29.97	17.06
5570	7.83	7.78	15.61	11.93	23.97	12.04	10.16	10.09	20.24	13.06	29.97	16.91

5G_CH0							5G_CH1						
Tested Frequency [MHz]	Duty Factor *1) [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
						[dBm]	[dBm]					[dBm]	[dBm]
5250	0.00	-13.12	1.91	20.17	1.13	8.96	10.09	-13.57	1.96	20.18	1.13	8.57	9.70
5570	0.00	-13.18	1.95	20.17	1.13	8.94	10.07	-13.30	2.03	20.17	1.13	8.91	10.04

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (168.672 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 24, 2023
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-160 (OFDM) (SDM)

[Standard Power mode]

11ax-160 (SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Conducted power						e.i.r.p.					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5250	7.82	7.16	14.98	11.76	23.97	12.21	8.80	9.29	18.09	12.57	29.97	17.40
5570	7.79	7.71	15.50	11.90	23.97	12.07	8.77	10.00	18.76	12.73	29.97	17.24

5G_CH0								5G_CH1					
Tested Frequency	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5250	0.00	-13.15	1.91	20.17	0.51	8.93	9.44	-13.59	1.96	20.18	1.13	8.55	9.68
5570	0.00	-13.20	1.95	20.17	0.51	8.92	9.43	-13.34	2.03	20.17	1.13	8.87	10.00

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (168.672 MHz) as conservative limit.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (CDD)

[Standard Power mode]

11ax-160 (OFDMA)(CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU tone	Segment	RU Index	Conducted power						e.i.r.p.					
				Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5250	106	0	53	6.68	6.15	12.83	11.08	23.97	12.89	8.67	7.98	16.64	12.21	29.97	17.76
		0	60	7.26	6.74	14.00	11.46	23.97	12.51	9.42	8.75	18.16	12.59	29.97	17.38
		1	60	6.82	6.51	13.34	11.25	23.97	12.72	8.85	8.45	17.30	12.38	29.97	17.59
5250	242	0	61	6.90	6.31	13.21	11.21	23.97	12.76	8.95	8.18	17.13	12.34	29.97	17.63
		0	64	7.23	6.68	13.91	11.43	23.97	12.54	9.37	8.67	18.04	12.56	29.97	17.41
		1	64	7.09	6.50	13.59	11.33	23.97	12.64	9.20	8.43	17.63	12.46	29.97	17.51
5250	484	0	65	6.95	6.25	13.20	11.20	23.97	12.77	9.01	8.11	17.12	12.33	29.97	17.64
		0	66	7.16	6.74	13.90	11.43	23.97	12.54	9.29	8.75	18.03	12.56	29.97	17.41
		1	66	7.00	6.62	13.62	11.34	23.97	12.63	9.08	8.59	17.66	12.47	29.97	17.50
5250	996	0	67	7.38	6.56	13.94	11.44	23.97	12.53	9.57	8.51	18.08	12.57	29.97	17.40
		1	67	7.09	6.85	13.95	11.44	23.97	12.53	9.20	8.89	18.09	12.57	29.97	17.40
5250	2 x 996	-	68	6.95	6.14	13.08	11.17	23.97	12.80	9.01	7.96	16.97	12.30	29.97	17.67

					5G_CH0						5G_CH1					
Tested Frequency	RU tone	Segment	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Directional Gain	Result	
[MHz]				[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5250	106	0	53	0.00	-13.84	1.92	20.17	1.13	8.25	9.38	-14.26	1.97	20.18	1.13	7.89	9.02
		0	60	0.00	-13.48	1.92	20.17	1.13	8.61	9.74	-13.86	1.97	20.18	1.13	8.29	9.42
		1	60	0.00	-13.75	1.92	20.17	1.13	8.34	9.47	-14.01	1.97	20.18	1.13	8.14	9.27
5250	242	0	61	0.00	-13.70	1.92	20.17	1.13	8.39	9.52	-14.15	1.97	20.18	1.13	8.00	9.13
		0	64	0.00	-13.50	1.92	20.17	1.13	8.59	9.72	-13.90	1.97	20.18	1.13	8.25	9.38
		1	64	0.00	-13.58	1.92	20.17	1.13	8.51	9.64	-14.02	1.97	20.18	1.13	8.13	9.26
5250	484	0	65	0.00	-13.67	1.92	20.17	1.13	8.42	9.55	-14.19	1.97	20.18	1.13	7.96	9.09
		0	66	0.00	-13.54	1.92	20.17	1.13	8.55	9.68	-13.86	1.97	20.18	1.13	8.29	9.42
		1	66	0.00	-13.64	1.92	20.17	1.13	8.45	9.58	-13.94	1.97	20.18	1.13	8.21	9.34
5250	996	0	67	0.00	-13.41	1.92	20.17	1.13	8.68	9.81	-13.98	1.97	20.18	1.13	8.17	9.30
		1	67	0.00	-13.58	1.92	20.17	1.13	8.51	9.64	-13.79	1.97	20.18	1.13	8.36	9.49
5250	2 x 996	-	68	0.00	-13.67	1.92	20.17	1.13	8.42	9.55	-14.27	1.97	20.18	1.13	7.88	9.01

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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 + Directional 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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* RU 26 and RU 52 are the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (CDD)

[Standard Power mode]

11ax-160 (OFDMA)(CDD)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU tone	Segment	RU Index	Conducted power						e.i.r.p.					
				Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]
				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]			
5570	26	0	0	6.31	6.43	12.74	11.05	23.97	12.92	8.18	8.34	16.52	12.18	29.97	17.79
		0	36	7.00	7.50	14.50	11.61	23.97	12.36	9.08	9.73	18.81	12.74	29.97	17.23
		1	36	6.56	7.33	13.89	11.43	23.97	12.54	8.51	9.51	18.02	12.56	29.97	17.41
5570	52	0	37	6.07	6.37	12.44	10.95	23.97	13.02	7.87	8.26	16.13	12.08	29.97	17.89
		0	52	6.64	7.18	13.82	11.40	23.97	12.57	8.61	9.31	17.92	12.53	29.97	17.44
		1	52	6.38	7.28	13.66	11.35	23.97	12.62	8.28	9.44	17.72	12.48	29.97	17.49
5570	106	0	53	5.96	6.33	12.28	10.89	23.97	13.08	7.72	8.21	15.93	12.02	29.97	17.95
		0	60	6.61	7.10	13.70	11.37	23.97	12.60	8.57	9.21	17.77	12.50	29.97	17.47
		1	60	6.74	7.26	14.01	11.46	23.97	12.51	8.75	9.42	18.17	12.59	29.97	17.38
5570	242	0	61	6.26	6.78	13.04	11.15	23.97	12.82	8.13	8.79	16.92	12.28	29.97	17.69
		0	64	6.74	7.33	14.07	11.48	23.97	12.49	8.75	9.51	18.26	12.61	29.97	17.36
		1	64	6.54	7.08	13.63	11.34	23.97	12.63	8.49	9.19	17.67	12.47	29.97	17.50
5570	484	0	65	6.26	6.58	12.84	11.09	23.97	12.88	8.13	8.53	16.66	12.22	29.97	17.75
		0	66	6.67	7.15	13.81	11.40	23.97	12.57	8.65	9.27	17.92	12.53	29.97	17.44
		1	66	6.82	7.25	14.07	11.48	23.97	12.49	8.85	9.40	18.25	12.61	29.97	17.36
5570	996	0	67	6.44	6.82	13.26	11.23	23.97	12.74	8.35	8.85	17.21	12.36	29.97	17.61
		1	67	6.68	7.26	13.94	11.44	23.97	12.53	8.67	9.42	18.09	12.57	29.97	17.40
5570	2 x 996	-	68	6.68	7.10	13.78	11.39	23.97	12.58	8.67	9.21	17.87	12.52	29.97	17.45

Tested Frequency [MHz]	RU tone	Segment	RU Index	Duty Factor *1 [dB]	5G_CH0					5G_CH1					Result		
					Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]	Result e.i.r.p. [dBm]
					[dB]	[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dB]	[dBm]	[dBm]	[dBm]
5570	26	0	0	0.00	-14.12	1.95	20.16	1.13	8.00	9.13	-14.13	2.04	20.17	1.13	8.08	9.21	9.21
		0	36	0.00	-13.67	1.95	20.16	1.13	8.45	9.58	-13.46	2.04	20.17	1.13	8.75	9.88	9.88
		1	36	0.00	-13.95	1.95	20.16	1.13	8.17	9.30	-13.56	2.04	20.17	1.13	8.65	9.78	9.78
5570	52	0	37	0.00	-14.29	1.95	20.16	1.13	7.83	8.96	-14.17	2.04	20.17	1.13	8.04	9.17	9.17
		0	52	0.00	-13.90	1.95	20.16	1.13	8.22	9.35	-13.65	2.04	20.17	1.13	8.56	9.69	9.69
		1	52	0.00	-14.07	1.95	20.16	1.13	8.05	9.18	-13.59	2.04	20.17	1.13	8.62	9.75	9.75
5570	106	0	53	0.00	-14.37	1.95	20.16	1.13	7.75	8.88	-14.20	2.04	20.17	1.13	8.01	9.14	9.14
		0	60	0.00	-13.92	1.95	20.16	1.13	8.20	9.33	-13.70	2.04	20.17	1.13	8.51	9.64	9.64
		1	60	0.00	-13.83	1.95	20.16	1.13	8.29	9.42	-13.60	2.04	20.17	1.13	8.61	9.74	9.74
5570	242	0	61	0.00	-14.15	1.95	20.16	1.13	7.97	9.10	-13.90	2.04	20.17	1.13	8.31	9.44	9.44
		0	64	0.00	-13.83	1.95	20.16	1.13	8.29	9.42	-13.56	2.04	20.17	1.13	8.65	9.78	9.78
		1	64	0.00	-13.96	1.95	20.16	1.13	8.16	9.29	-13.71	2.04	20.17	1.13	8.50	9.63	9.63
5570	484	0	65	0.00	-14.15	1.95	20.16	1.13	7.97	9.10	-14.03	2.04	20.17	1.13	8.18	9.31	9.31
		0	66	0.00	-13.88	1.95	20.16	1.13	8.24	9.37	-13.67	2.04	20.17	1.13	8.54	9.67	9.67
		1	66	0.00	-13.78	1.95	20.16	1.13	8.34	9.47	-13.61	2.04	20.17	1.13	8.60	9.73	9.73
5570	996	0	67	0.00	-14.03	1.95	20.16	1.13	8.09	9.22	-13.87	2.04	20.17	1.13	8.34	9.47	9.47
		1	67	0.00	-13.87	1.95	20.16	1.13	8.25	9.38	-13.60	2.04	20.17	1.13	8.61	9.74	9.74
5570	2 x 996	-	68	0.00	-13.87	1.95	20.16	1.13	8.25	9.38	-13.70	2.04	20.17	1.13	8.51	9.64	9.64

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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 + Directional 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) = 1 W

Directional Gain: G(ANT) + Array gain, (G(ANT)= set equal to the antenna having the highest gain, Array gain = 0 dB for N(ANT) =< 4 (N(ANT)=2)

For all test frequencies, B was applied the minimum value (163.230 MHz) as conservative limit. (26-tone)

For all test frequencies, B was applied the minimum value (163.324 MHz) as conservative limit. (52-tone)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (SDM)

[Standard Power mode]

11ax-160 (OFDMA)(SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU tone	Segment	RU Index	Conducted power									e.i.r.p.					
				Antenna			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna			Result [dBm]	Limit [dBm]	Margin [dB]			
				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]				5G_CH0 [mW]	5G_CH1 [mW]	Sum [mW]						
5250	106	0	53	6.68	6.12	12.80	11.07	23.97	12.90	7.51	7.94	15.45	11.89	29.97	18.08			
		0	60	7.28	6.68	13.96	11.45	23.97	12.52	8.18	8.67	16.85	12.27	29.97	17.70			
		1	60	6.92	6.37	13.28	11.23	23.97	12.74	7.78	8.26	16.04	12.05	29.97	17.92			
5250	242	0	61	6.56	6.51	13.07	11.16	23.97	12.81	7.38	8.45	15.83	11.99	29.97	17.98			
		0	64	7.43	6.79	14.22	11.53	23.97	12.44	8.35	8.81	17.16	12.35	29.97	17.62			
		1	64	7.09	6.77	13.87	11.42	23.97	12.55	7.98	8.79	16.76	12.24	29.97	17.73			
5250	484	0	65	6.85	6.47	13.32	11.25	23.97	12.72	7.71	8.39	16.10	12.07	29.97	17.90			
		0	66	7.33	6.79	14.12	11.50	23.97	12.47	8.24	8.81	17.05	12.32	29.97	17.65			
		1	66	7.03	6.73	13.76	11.38	23.97	12.59	7.90	8.73	16.63	12.21	29.97	17.76			
5250	996	0	67	7.06	6.24	13.30	11.24	23.97	12.73	7.94	8.09	16.03	12.05	29.97	17.92			
		1	67	7.14	6.51	13.66	11.35	23.97	12.62	8.03	8.45	16.48	12.17	29.97	17.80			
5250	2 x 996	-	68	7.01	6.29	13.31	11.24	23.97	12.73	7.89	8.16	16.05	12.05	29.97	17.92			

				5G_CH0							5G_CH1						
Tested Frequency	RU tone	Segment	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		
[MHz]				[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5250	106	0	53	0.00	-13.84	1.92	20.17	0.51	8.25	8.76	-14.28	1.97	20.18	1.13	7.87	9.00	
		0	60	0.00	-13.47	1.92	20.17	0.51	8.62	9.13	-13.90	1.97	20.18	1.13	8.25	9.38	
		1	60	0.00	-13.69	1.92	20.17	0.51	8.40	8.91	-14.11	1.97	20.18	1.13	8.04	9.17	
5250	242	0	61	0.00	-13.92	1.92	20.17	0.51	8.17	8.68	-14.01	1.97	20.18	1.13	8.14	9.27	
		0	64	0.00	-13.38	1.92	20.17	0.51	8.71	9.22	-13.83	1.97	20.18	1.13	8.32	9.45	
		1	64	0.00	-13.58	1.92	20.17	0.51	8.51	9.02	-13.84	1.97	20.18	1.13	8.31	9.44	
5250	484	0	65	0.00	-13.73	1.92	20.17	0.51	8.36	8.87	-14.04	1.97	20.18	1.13	8.11	9.24	
		0	66	0.00	-13.44	1.92	20.17	0.51	8.65	9.16	-13.83	1.97	20.18	1.13	8.32	9.45	
		1	66	0.00	-13.62	1.92	20.17	0.51	8.47	8.98	-13.87	1.97	20.18	1.13	8.28	9.41	
5250	996	0	67	0.00	-13.60	1.92	20.17	0.51	8.49	9.00	-14.20	1.97	20.18	1.13	7.95	9.08	
		1	67	0.00	-13.55	1.92	20.17	0.51	8.54	9.05	-14.01	1.97	20.18	1.13	8.14	9.27	
5250	2 x 996	-	68	0.00	-13.63	1.92	20.17	0.51	8.46	8.97	-14.16	1.97	20.18	1.13	7.99	9.12	

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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) = 1 W

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (UNII-1 for FCC)

For all test frequencies, B was applied the minimum value (163.230 MHz) as conservative limit. (26-tone)

For all test frequencies, B was applied the minimum value (163.324 MHz) as conservative limit. (52-tone)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

* RU 26 and RU 52 are the same power setting for High power mode and Standard power mode. (Data is listed in High power mode)

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 19, 2024 February 2, 2024
Temperature / Humidity 25 deg. C / 46 % RH 22 deg. C / 30 % RH
Engineer Yuta Shiba Yosuke Murakami
Mode Tx 11ax-160 (OFDMA) (SDM)

[Standard Power mode]

11ax-160 (OFDMA)(SDM)

5G_CH0 + 5G_CH1

Applied limit: 15.407, mobile and portable client device

Tested	RU		RU	Conducted power						e.i.r.p.					
Frequency	tone	Segment	Index	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
				5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
[MHz]				[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5570	26	0	0	6.29	6.43	12.72	11.05	23.97	12.92	7.08	8.34	15.42	11.88	29.97	18.09
		0	36	7.09	7.48	14.58	11.64	23.97	12.33	7.98	9.71	17.68	12.48	29.97	17.49
		1	36	6.64	7.35	13.98	11.46	23.97	12.51	7.46	9.53	16.99	12.30	29.97	17.67
5570	52	0	37	6.14	6.82	12.96	11.13	23.97	12.84	6.90	8.85	15.75	11.97	29.97	18.00
		0	52	7.00	7.41	14.41	11.59	23.97	12.38	7.87	9.62	17.49	12.43	29.97	17.54
		1	52	6.51	7.30	13.81	11.40	23.97	12.57	7.33	9.46	16.79	12.25	29.97	17.72
5570	106	0	53	6.04	6.35	12.39	10.93	23.97	13.04	6.79	8.24	15.03	11.77	29.97	18.20
		0	60	6.81	7.13	13.94	11.44	23.97	12.53	7.65	9.25	16.90	12.28	29.97	17.69
		1	60	6.37	7.13	13.50	11.30	23.97	12.67	7.16	9.25	16.41	12.15	29.97	17.82
5570	242	0	61	6.31	6.82	13.13	11.18	23.97	12.79	7.09	8.85	15.95	12.03	29.97	17.94
		0	64	6.64	7.35	13.98	11.46	23.97	12.51	7.46	9.53	16.99	12.30	29.97	17.67
		1	64	6.79	7.66	14.45	11.60	23.97	12.37	7.64	9.93	17.57	12.45	29.97	17.52
5570	484	0	65	6.18	6.81	12.99	11.14	23.97	12.83	6.95	8.83	15.78	11.98	29.97	17.99
		0	66	6.58	7.16	13.74	11.38	23.97	12.59	7.39	9.29	16.69	12.22	29.97	17.75
		1	66	6.40	7.31	13.71	11.37	23.97	12.60	7.19	9.49	16.68	12.22	29.97	17.75
5570	996	0	67	6.65	6.84	13.49	11.30	23.97	12.67	7.48	8.87	16.35	12.14	29.97	17.83
		1	67	6.38	7.20	13.58	11.33	23.97	12.64	7.18	9.33	16.51	12.18	29.97	17.79
5570	2 x 996	-	68	6.61	7.13	13.74	11.38	23.97	12.59	7.43	9.25	16.68	12.22	29.97	17.75

					5G_CH0						5G_CH1					
Tested Frequency	RU tone	Segment	RU Index	Duty Factor *1)	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
[MHz]				[dB]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	[dBm]	[dB]	[dB]	[dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]
5570	26	0	0	0.00	-14.13	1.95	20.16	0.51	7.99	8.50	-14.13	2.04	20.17	1.13	8.08	9.21
		0	36	0.00	-13.61	1.95	20.16	0.51	8.51	9.02	-13.47	2.04	20.17	1.13	8.74	9.87
		1	36	0.00	-13.90	1.95	20.16	0.51	8.22	8.73	-13.55	2.04	20.17	1.13	8.66	9.79
5570	52	0	37	0.00	-14.24	1.95	20.16	0.51	7.88	8.39	-13.87	2.04	20.17	1.13	8.34	9.47
		0	52	0.00	-13.67	1.95	20.16	0.51	8.45	8.96	-13.51	2.04	20.17	1.13	8.70	9.83
		1	52	0.00	-13.98	1.95	20.16	0.51	8.14	8.65	-13.58	2.04	20.17	1.13	8.63	9.76
5570	106	0	53	0.00	-14.31	1.95	20.16	0.51	7.81	8.32	-14.18	2.04	20.17	1.13	8.03	9.16
		0	60	0.00	-13.79	1.95	20.16	0.51	8.33	8.84	-13.68	2.04	20.17	1.13	8.53	9.66
		1	60	0.00	-14.08	1.95	20.16	0.51	8.04	8.55	-13.68	2.04	20.17	1.13	8.53	9.66
5570	242	0	61	0.00	-14.12	1.95	20.16	0.51	8.00	8.51	-13.87	2.04	20.17	1.13	8.34	9.47
		0	64	0.00	-13.90	1.95	20.16	0.51	8.22	8.73	-13.55	2.04	20.17	1.13	8.66	9.79
		1	64	0.00	-13.80	1.95	20.16	0.51	8.32	8.83	-13.37	2.04	20.17	1.13	8.84	9.97
5570	484	0	65	0.00	-14.21	1.95	20.16	0.51	7.91	8.42	-13.88	2.04	20.17	1.13	8.33	9.46
		0	66	0.00	-13.94	1.95	20.16	0.51	8.18	8.69	-13.66	2.04	20.17	1.13	8.55	9.68
		1	66	0.00	-14.06	1.95	20.16	0.51	8.06	8.57	-13.57	2.04	20.17	1.13	8.64	9.77
5570	996	0	67	0.00	-13.89	1.95	20.16	0.51	8.23	8.74	-13.86	2.04	20.17	1.13	8.35	9.48
		1	67	0.00	-14.07	1.95	20.16	0.51	8.05	8.56	-13.64	2.04	20.17	1.13	8.57	9.70
5570	2 x 996	-	68	0.00	-13.92	1.95	20.16	0.51	8.20	8.71	-13.68	2.04	20.17	1.13	8.53	9.66

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

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) = 1 W

For all test frequencies, B was applied the minimum value (163.230 MHz) as conservative limit. (26-tone)

For all test frequencies, B was applied the minimum value (163.324 MHz) as conservative limit. (52-tone)

For all test frequencies, B was applied the minimum value (164.405 MHz) as conservative limit. (106-tone)

For all test frequencies, B was applied the minimum value (165.187 MHz) as conservative limit. (242-tone)

For all test frequencies, B was applied the minimum value (166.706 MHz) as conservative limit. (484-tone)

For all test frequencies, B was applied the minimum value (170.499 MHz) as conservative limit. (996-tone)

For all test frequencies, B was applied the minimum value (172.356 MHz) as conservative limit. (2x996-tone)

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 4, 2023
Temperature / Humidity 25 deg. C / 49 % RH
Engineer Ken Fujita
Mode Tx 11a

5180 MHz

Mode	Data rate [Mbps]	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11a	6	-12.78	-14.25	0.05272	0.03758	0.09031	-10.44	0.00	-10.44	
	9	-12.84	-14.24	0.05200	0.03767	0.08967	-10.47	0.00	-10.47	
	12	-12.86	-14.41	0.05176	0.03622	0.08798	-10.56	0.00	-10.56	
	18	-12.91	-14.27	0.05117	0.03741	0.08858	-10.53	0.00	-10.53	
	24	-12.80	-14.19	0.05248	0.03811	0.09059	-10.43	0.00	-10.43	
	36	-12.84	-14.07	0.05200	0.03917	0.09117	-10.40	0.00	-10.40	
	48	-12.77	-14.15	0.05284	0.03846	0.09130	-10.40	0.00	-10.40	
	54	-12.76	-14.14	0.05297	0.03855	0.09151	-10.39	0.00	-10.39	*

* Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	July 4, 2023	July 5, 2023
Temperature / Humidity	25 deg. C / 49 % RH	26 deg. C / 47 % RH
Engineer	Ken Fujita	Ken Fujita
Mode	Tx 11n-20	

5180 MHz

Mode	MCS Number	Antenna		Reading		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0	5G_CH1	5G_CH0	5G_CH1					
		[dBm]	[dBm]	[mW]	[mW]	[mW]	[dBm]			
11n-20 (CDD)	0	-12.90	-14.47	0.05129	0.03573	0.08701	-10.60	0.00	-10.60	*
	1	-13.02	-14.35	0.04989	0.03673	0.08662	-10.62	0.00	-10.62	
	2	-12.92	-14.38	0.05105	0.03648	0.08753	-10.58	0.00	-10.58	
	3	-13.01	-14.43	0.05000	0.03606	0.08606	-10.65	0.00	-10.65	
	4	-12.88	-14.19	0.05152	0.03811	0.08963	-10.48	0.00	-10.48	
	5	-12.59	-14.01	0.05508	0.03972	0.09480	-10.23	0.00	-10.23	
	6	-12.56	-14.41	0.05546	0.03622	0.09169	-10.38	0.00	-10.38	
	7	-12.69	-14.11	0.05383	0.03882	0.09264	-10.33	0.00	-10.33	

* Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5180 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0	5G_CH1	5G_CH0	5G_CH1					
		[dBm]	[dBm]	[mW]	[mW]	[mW]	[dBm]			
11n-20 (SDM)	8	-13.09	-15.06	0.04909	0.03119	0.08028	-10.95	0.00	-10.95	*
	9	-13.07	-15.12	0.04932	0.03076	0.08008	-10.96	0.00	-10.96	
	10	-13.12	-15.15	0.04875	0.03055	0.07930	-11.01	0.00	-11.01	
	11	-12.98	-15.06	0.05035	0.03119	0.08154	-10.89	0.00	-10.89	
	12	-12.88	-14.92	0.05152	0.03221	0.08373	-10.77	0.00	-10.77	
	13	-12.94	-14.98	0.05082	0.03177	0.08258	-10.83	0.00	-10.83	
	14	-12.89	-14.87	0.05140	0.03258	0.08399	-10.76	0.00	-10.76	
	15	-12.85	-14.90	0.05188	0.03236	0.08424	-10.74	0.00	-10.74	

* Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 5, 2023
Temperature / Humidity 26 deg. C / 47 % RH
Engineer Ken Fujita
Mode Tx 11ac-20

5180 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ac-20 (CDD)	0 (1SS)	-13.10	-15.18	0.04898	0.03034	0.07932	-11.01	0.00	-11.01	*
	1 (1SS)	-13.03	-15.11	0.04977	0.03083	0.08061	-10.94	0.00	-10.94	
	2 (1SS)	-13.06	-15.21	0.04943	0.03013	0.07956	-10.99	0.00	-10.99	
	3 (1SS)	-13.02	-15.22	0.04989	0.03006	0.07995	-10.97	0.00	-10.97	
	4 (1SS)	-12.96	-14.90	0.05058	0.03236	0.08294	-10.81	0.00	-10.81	
	5 (1SS)	-12.91	-14.98	0.05117	0.03177	0.08294	-10.81	0.00	-10.81	
	6 (1SS)	-12.94	-14.87	0.05082	0.03258	0.08340	-10.79	0.00	-10.79	
	7 (1SS)	-12.90	-14.89	0.05129	0.03243	0.08372	-10.77	0.00	-10.77	
	8 (1SS)	-12.82	-14.92	0.05224	0.03221	0.08445	-10.73	0.00	-10.73	
	9 (1SS)	-12.91	-14.85	0.05117	0.03273	0.08390	-10.76	0.00	-10.76	

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5180 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ac-20 (SDM)	0 (2SS)	-13.09	-15.03	0.04909	0.03141	0.08050	-10.94	0.00	-10.94	*
	1 (2SS)	-12.98	-15.16	0.05035	0.03048	0.08083	-10.92	0.00	-10.92	
	2 (2SS)	-12.99	-15.09	0.05023	0.03097	0.08121	-10.90	0.00	-10.90	
	3 (2SS)	-13.08	-15.04	0.04920	0.03133	0.08054	-10.94	0.00	-10.94	
	4 (2SS)	-12.91	-14.89	0.05117	0.03243	0.08360	-10.78	0.00	-10.78	
	5 (2SS)	-12.82	-14.94	0.05224	0.03206	0.08430	-10.74	0.00	-10.74	
	6 (2SS)	-12.89	-14.85	0.05140	0.03273	0.08414	-10.75	0.00	-10.75	
	7 (2SS)	-12.77	-14.90	0.05284	0.03236	0.08520	-10.70	0.00	-10.70	
	8 (2SS)	-12.81	-14.98	0.05236	0.03177	0.08413	-10.75	0.00	-10.75	
	9 (2SS)	-12.89	-14.93	0.05140	0.03214	0.08354	-10.78	0.00	-10.78	

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 5, 2023
Temperature / Humidity 26 deg. C / 47 % RH
Engineer Ken Fujita
Mode Tx 11ax-20

5180 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ax-20 (OFDM) (CDD)	0 (1SS)	-12.93	-15.09	0.05093	0.03097	0.08191	-10.87	0.00	-10.87	
	1 (1SS)	-13.02	-15.08	0.04989	0.03105	0.08093	-10.92	0.00	-10.92	
	2 (1SS)	-13.02	-15.16	0.04989	0.03048	0.08037	-10.95	0.00	-10.95	
	3 (1SS)	-12.98	-14.99	0.05035	0.03170	0.08205	-10.86	0.00	-10.86	
	4 (1SS)	-12.83	-14.95	0.05212	0.03199	0.08411	-10.75	0.00	-10.75	
	5 (1SS)	-12.89	-14.88	0.05140	0.03251	0.08391	-10.76	0.00	-10.76	
	6 (1SS)	-12.79	-14.85	0.05260	0.03273	0.08534	-10.69	0.00	-10.69	
	7 (1SS)	-12.84	-14.84	0.05200	0.03281	0.08481	-10.72	0.00	-10.72	
	8 (1SS)	-12.70	-14.93	0.05370	0.03214	0.08584	-10.66	0.00	-10.66	
	9 (1SS)	-12.82	-14.93	0.05224	0.03214	0.08438	-10.74	0.00	-10.74	
	10 (1SS)	-12.75	-14.88	0.05309	0.03251	0.08560	-10.68	0.00	-10.68	
	11 (1SS)	-12.73	-14.87	0.05333	0.03258	0.08592	-10.66	0.00	-10.66	*

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5180 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ax-20 (OFDM) (SDM)	0 (2SS)	-12.89	-15.07	0.05140	0.03112	0.08252	-10.83	0.00	-10.83	
	1 (2SS)	-12.93	-15.02	0.05093	0.03148	0.08241	-10.84	0.00	-10.84	
	2 (2SS)	-12.95	-15.10	0.05070	0.03090	0.08160	-10.88	0.00	-10.88	
	3 (2SS)	-12.97	-15.03	0.05047	0.03141	0.08187	-10.87	0.00	-10.87	
	4 (2SS)	-12.79	-14.81	0.05260	0.03304	0.08564	-10.67	0.00	-10.67	
	5 (2SS)	-12.78	-14.84	0.05272	0.03281	0.08553	-10.68	0.00	-10.68	
	6 (2SS)	-12.72	-14.86	0.05346	0.03266	0.08612	-10.65	0.00	-10.65	
	7 (2SS)	-12.75	-14.76	0.05309	0.03342	0.08651	-10.63	0.00	-10.63	
	8 (2SS)	-12.81	-14.87	0.05236	0.03258	0.08494	-10.71	0.00	-10.71	
	9 (2SS)	-12.73	-14.87	0.05333	0.03258	0.08592	-10.66	0.00	-10.66	
	10 (2SS)	-12.82	-14.90	0.05224	0.03236	0.08460	-10.73	0.00	-10.73	
	11 (2SS)	-12.66	-14.87	0.05420	0.03258	0.08678	-10.62	0.00	-10.62	*

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 5, 2023
Temperature / Humidity 26 deg. C / 47 % RH
Engineer Ken Fujita
Mode Tx 11n-40

5190 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11n-40 (CDD)	0	-12.96	-15.08	0.05058	0.03105	0.08163	-10.88	0.00	-10.88	
	1	-12.90	-15.08	0.05129	0.03105	0.08233	-10.84	0.00	-10.84	
	2	-12.85	-15.17	0.05188	0.03041	0.08229	-10.85	0.00	-10.85	
	3	-12.91	-15.11	0.05117	0.03083	0.08200	-10.86	0.00	-10.86	
	4	-13.04	-15.00	0.04966	0.03162	0.08128	-10.90	0.00	-10.90	
	5	-12.97	-15.01	0.05047	0.03155	0.08202	-10.86	0.00	-10.86	
	6	-12.93	-15.03	0.05093	0.03141	0.08234	-10.84	0.00	-10.84	
	7	-12.91	-15.02	0.05117	0.03148	0.08265	-10.83	0.00	-10.83	*

* Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5190 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11n-40 (SDM)	8	-12.95	-15.24	0.05070	0.02992	0.08062	-10.94	0.00	-10.94	
	9	-12.93	-15.11	0.05093	0.03083	0.08176	-10.87	0.00	-10.87	
	10	-12.94	-15.01	0.05082	0.03155	0.08237	-10.84	0.00	-10.84	
	11	-12.91	-15.16	0.05117	0.03048	0.08165	-10.88	0.00	-10.88	
	12	-12.90	-14.96	0.05129	0.03192	0.08320	-10.80	0.00	-10.80	
	13	-12.92	-15.04	0.05105	0.03133	0.08238	-10.84	0.00	-10.84	
	14	-12.99	-15.03	0.05023	0.03141	0.08164	-10.88	0.00	-10.88	
	15	-12.85	-15.03	0.05188	0.03141	0.08329	-10.79	0.00	-10.79	*

* Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 5, 2023
Temperature / Humidity 26 deg. C / 47 % RH
Engineer Ken Fujita
Mode Tx 11ac-40

5190 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ac-40 (CDD)	0 (1SS)	-13.05	-15.11	0.04955	0.03083	0.08038	-10.95	0.00	-10.95	
	1 (1SS)	-13.03	-15.08	0.04977	0.03105	0.08082	-10.92	0.00	-10.92	
	2 (1SS)	-12.93	-15.10	0.05093	0.03090	0.08184	-10.87	0.00	-10.87	
	3 (1SS)	-12.97	-15.04	0.05047	0.03133	0.08180	-10.87	0.00	-10.87	
	4 (1SS)	-12.86	-14.99	0.05176	0.03170	0.08346	-10.79	0.00	-10.79	
	5 (1SS)	-13.07	-14.90	0.04932	0.03236	0.08168	-10.88	0.00	-10.88	
	6 (1SS)	-12.86	-14.98	0.05176	0.03177	0.08353	-10.78	0.00	-10.78	
	7 (1SS)	-12.83	-15.02	0.05212	0.03148	0.08360	-10.78	0.00	-10.78	
	8 (1SS)	-13.02	-14.91	0.04989	0.03228	0.08217	-10.85	0.00	-10.85	
	9 (1SS)	-12.86	-14.95	0.05176	0.03199	0.08375	-10.77	0.00	-10.77	*

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5190 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ac-40 (SDM)	0 (2SS)	-12.95	-15.03	0.05070	0.03141	0.08210	-10.86	0.00	-10.86	
	1 (2SS)	-12.79	-15.10	0.05260	0.03090	0.08350	-10.78	0.00	-10.78	
	2 (2SS)	-12.87	-14.98	0.05164	0.03177	0.08341	-10.79	0.00	-10.79	
	3 (2SS)	-12.95	-15.05	0.05070	0.03126	0.08196	-10.86	0.00	-10.86	
	4 (2SS)	-12.95	-15.00	0.05070	0.03162	0.08232	-10.84	0.00	-10.84	
	5 (2SS)	-12.81	-15.01	0.05236	0.03155	0.08391	-10.76	0.00	-10.76	
	6 (2SS)	-12.97	-14.95	0.05047	0.03199	0.08246	-10.84	0.00	-10.84	
	7 (2SS)	-12.98	-14.96	0.05035	0.03192	0.08227	-10.85	0.00	-10.85	
	8 (2SS)	-12.91	-15.12	0.05117	0.03076	0.08193	-10.87	0.00	-10.87	
	9 (2SS)	-12.98	-15.05	0.05035	0.03126	0.08161	-10.88	0.00	-10.88	*

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	July 5, 2023	July 6, 2023
Temperature / Humidity	26 deg. C / 47 % RH	25 deg. C / 48 % RH
Engineer	Ken Fujita	Ken Fujita
Mode	Tx 11ax-40	

5190 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ax-40 (OFDM) (CDD)	0 (1SS)	-13.04	-15.19	0.04966	0.03027	0.07993	-10.97	0.00	-10.97	
	1 (1SS)	-12.97	-15.21	0.05047	0.03013	0.08060	-10.94	0.00	-10.94	
	2 (1SS)	-13.14	-15.34	0.04853	0.02924	0.07777	-11.09	0.00	-11.09	
	3 (1SS)	-13.11	-15.16	0.04887	0.03048	0.07934	-11.00	0.00	-11.00	
	4 (1SS)	-12.91	-15.07	0.05117	0.03112	0.08229	-10.85	0.00	-10.85	
	5 (1SS)	-12.81	-14.96	0.05236	0.03192	0.08428	-10.74	0.00	-10.74	
	6 (1SS)	-12.87	-14.87	0.05164	0.03258	0.08423	-10.75	0.00	-10.75	
	7 (1SS)	-12.81	-14.92	0.05236	0.03221	0.08457	-10.73	0.00	-10.73	
	8 (1SS)	-12.82	-14.93	0.05224	0.03214	0.08438	-10.74	0.00	-10.74	
	9 (1SS)	-12.85	-14.97	0.05188	0.03184	0.08372	-10.77	0.00	-10.77	
	10 (1SS)	-12.86	-14.95	0.05176	0.03199	0.08375	-10.77	0.00	-10.77	
	11 (1SS)	-12.82	-14.89	0.05224	0.03243	0.08467	-10.72	0.00	-10.72	*

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5190 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ac-40 (OFDM) (SDM)	0 (2SS)	-12.94	-14.83	0.05082	0.03289	0.08370	-10.77	0.00	-10.77	
	1 (2SS)	-12.96	-14.72	0.05058	0.03373	0.08431	-10.74	0.00	-10.74	
	2 (2SS)	-13.03	-14.85	0.04977	0.03273	0.08251	-10.84	0.00	-10.84	
	3 (2SS)	-12.98	-14.82	0.05035	0.03296	0.08331	-10.79	0.00	-10.79	
	4 (2SS)	-12.77	-14.57	0.05284	0.03491	0.08776	-10.57	0.00	-10.57	
	5 (2SS)	-12.74	-14.61	0.05321	0.03459	0.08780	-10.56	0.00	-10.56	
	6 (2SS)	-12.76	-14.64	0.05297	0.03436	0.08732	-10.59	0.00	-10.59	
	7 (2SS)	-12.73	-14.52	0.05333	0.03532	0.08865	-10.52	0.00	-10.52	
	8 (2SS)	-12.66	-14.52	0.05420	0.03532	0.08952	-10.48	0.00	-10.48	*
	9 (2SS)	-12.78	-14.51	0.05272	0.03540	0.08812	-10.55	0.00	-10.55	
	10 (2SS)	-12.86	-14.51	0.05176	0.03540	0.08716	-10.60	0.00	-10.60	
	11 (2SS)	-14.77	-14.57	0.03334	0.03491	0.06826	-11.66	0.00	-11.66	

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 6, 2023
Temperature / Humidity 25 deg. C / 48 % RH
Engineer Ken Fujita
Mode Tx 11ac-80

5210 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ac-80 (CDD)	0 (1SS)	-13.03	-14.93	0.04977	0.03214	0.08191	-10.87	0.00	-10.87	
	1 (1SS)	-12.99	-14.74	0.05023	0.03357	0.08381	-10.77	0.00	-10.77	
	2 (1SS)	-13.08	-14.87	0.04920	0.03258	0.08179	-10.87	0.00	-10.87	
	3 (1SS)	-13.08	-14.80	0.04920	0.03311	0.08232	-10.85	0.00	-10.85	
	4 (1SS)	-12.94	-14.63	0.05082	0.03443	0.08525	-10.69	0.00	-10.69	
	5 (1SS)	-12.83	-14.63	0.05212	0.03443	0.08655	-10.63	0.00	-10.63	
	6 (1SS)	-12.85	-14.56	0.05188	0.03499	0.08687	-10.61	0.00	-10.61	
	7 (1SS)	-12.89	-14.66	0.05140	0.03420	0.08560	-10.68	0.00	-10.68	
	8 (1SS)	-12.89	-14.73	0.05140	0.03365	0.08506	-10.70	0.00	-10.70	
	9 (1SS)	-12.81	-14.51	0.05236	0.03540	0.08776	-10.57	0.00	-10.57	*

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5210 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ac-80 (SDM)	0 (2SS)	-13.11	-14.75	0.04887	0.03350	0.08236	-10.84	0.00	-10.84	
	1 (2SS)	-12.90	-14.73	0.05129	0.03365	0.08494	-10.71	0.00	-10.71	
	2 (2SS)	-12.91	-14.79	0.05117	0.03319	0.08436	-10.74	0.00	-10.74	
	3 (2SS)	-13.10	-14.75	0.04898	0.03350	0.08247	-10.84	0.00	-10.84	
	4 (2SS)	-12.86	-14.67	0.05176	0.03412	0.08588	-10.66	0.00	-10.66	
	5 (2SS)	-12.97	-14.62	0.05047	0.03451	0.08498	-10.71	0.00	-10.71	
	6 (2SS)	-12.98	-14.61	0.05035	0.03459	0.08494	-10.71	0.00	-10.71	
	7 (2SS)	-12.82	-14.61	0.05224	0.03459	0.08683	-10.61	0.00	-10.61	
	8 (2SS)	-12.90	-14.63	0.05129	0.03443	0.08572	-10.67	0.00	-10.67	
	9 (2SS)	-12.82	-14.58	0.05224	0.03483	0.08707	-10.60	0.00	-10.60	*

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 6, 2023
Temperature / Humidity 25 deg. C / 48 % RH
Engineer Ken Fujita
Mode Tx 11ax-80

5210 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ax-80 (OFDM) (CDD)	0 (1SS)	-12.83	-14.72	0.05212	0.03373	0.08585	-10.66	0.00	-10.66	*
	1 (1SS)	-12.99	-14.81	0.05023	0.03304	0.08327	-10.80	0.00	-10.80	
	2 (1SS)	-13.07	-14.78	0.04932	0.03327	0.08258	-10.83	0.00	-10.83	
	3 (1SS)	-12.96	-14.71	0.05058	0.03381	0.08439	-10.74	0.00	-10.74	
	4 (1SS)	-12.82	-14.44	0.05224	0.03597	0.08821	-10.54	0.00	-10.54	
	5 (1SS)	-12.80	-14.71	0.05248	0.03381	0.08629	-10.64	0.00	-10.64	
	6 (1SS)	-12.84	-14.56	0.05200	0.03499	0.08699	-10.61	0.00	-10.61	
	7 (1SS)	-12.67	-14.57	0.05408	0.03491	0.08899	-10.51	0.00	-10.51	
	8 (1SS)	-12.78	-14.56	0.05272	0.03499	0.08772	-10.57	0.00	-10.57	
	9 (1SS)	-12.71	-14.49	0.05358	0.03556	0.08914	-10.50	0.00	-10.50	
	10 (1SS)	-12.71	-14.60	0.05358	0.03467	0.08825	-10.54	0.00	-10.54	
	11 (1SS)	-12.78	-14.61	0.05272	0.03459	0.08732	-10.59	0.00	-10.59	

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5210 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ax-80 (OFDM) (SDM)	0 (2SS)	-13.03	-14.79	0.04977	0.03319	0.08296	-10.81	0.00	-10.81	*
	1 (2SS)	-12.87	-14.70	0.05164	0.03388	0.08553	-10.68	0.00	-10.68	
	2 (2SS)	-12.90	-14.75	0.05129	0.03350	0.08478	-10.72	0.00	-10.72	
	3 (2SS)	-12.92	-14.72	0.05105	0.03373	0.08478	-10.72	0.00	-10.72	
	4 (2SS)	-12.77	-14.45	0.05284	0.03589	0.08874	-10.52	0.00	-10.52	
	5 (2SS)	-12.68	-14.68	0.05395	0.03404	0.08799	-10.56	0.00	-10.56	
	6 (2SS)	-12.80	-14.53	0.05248	0.03524	0.08772	-10.57	0.00	-10.57	
	7 (2SS)	-12.85	-14.45	0.05188	0.03589	0.08777	-10.57	0.00	-10.57	
	8 (2SS)	-12.87	-14.52	0.05164	0.03532	0.08696	-10.61	0.00	-10.61	
	9 (2SS)	-12.82	-14.35	0.05224	0.03673	0.08897	-10.51	0.00	-10.51	
	10 (2SS)	-12.86	-14.51	0.05176	0.03540	0.08716	-10.60	0.00	-10.60	
	11 (2SS)	-14.77	-14.57	0.03334	0.03491	0.06826	-11.66	0.00	-11.66	

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date July 6, 2023
Temperature / Humidity 25 deg. C / 48 % RH
Engineer Ken Fujita
Mode Tx 11ax-160

5250 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ax-160 (OFDM) (CDD)	0 (1SS)	-12.47	-14.03	0.05662	0.03954	0.09616	-10.17	0.00	-10.17	*
	1 (1SS)	-12.40	-14.13	0.05754	0.03864	0.09618	-10.17	0.00	-10.17	
	2 (1SS)	-12.57	-14.01	0.05534	0.03972	0.09505	-10.22	0.00	-10.22	
	3 (1SS)	-12.57	-14.07	0.05534	0.03917	0.09451	-10.25	0.00	-10.25	
	4 (1SS)	-12.20	-13.61	0.06026	0.04355	0.10381	-9.84	0.00	-9.84	
	5 (1SS)	-12.22	-13.61	0.05998	0.04355	0.10353	-9.85	0.00	-9.85	
	6 (1SS)	-12.17	-13.74	0.06067	0.04227	0.10294	-9.87	0.00	-9.87	
	7 (1SS)	-12.14	-13.69	0.06109	0.04276	0.10385	-9.84	0.00	-9.84	
	8 (1SS)	-12.21	-13.80	0.06012	0.04169	0.10180	-9.92	0.00	-9.92	
	9 (1SS)	-12.15	-13.64	0.06095	0.04325	0.10421	-9.82	0.00	-9.82	
	10 (1SS)	-12.13	-13.72	0.06124	0.04246	0.10370	-9.84	0.00	-9.84	
	11 (1SS)	-12.18	-13.73	0.06053	0.04236	0.10290	-9.88	0.00	-9.88	

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

5250 MHz

Mode	MCS Number	Antenna		Reading Antenna		Sum		Duty factor *1) [dB]	Burst power [dBm]	Remarks
		5G_CH0 [dBm]	5G_CH1 [dBm]	5G_CH0 [mW]	5G_CH1 [mW]	[mW]	[dBm]			
11ax-160 (OFDM) (SDM)	0 (2SS)	-12.52	-14.00	0.05598	0.03981	0.09579	-10.19	0.00	-10.19	*
	1 (2SS)	-12.10	-13.82	0.06166	0.04150	0.10315	-9.87	0.00	-9.87	
	2 (2SS)	-12.63	-13.99	0.05458	0.03990	0.09448	-10.25	0.00	-10.25	
	3 (2SS)	-12.48	-14.14	0.05649	0.03855	0.09504	-10.22	0.00	-10.22	
	4 (2SS)	-12.20	-13.73	0.06026	0.04236	0.10262	-9.89	0.00	-9.89	
	5 (2SS)	-12.20	-13.79	0.06026	0.04178	0.10204	-9.91	0.00	-9.91	
	6 (2SS)	-12.21	-13.76	0.06012	0.04207	0.10219	-9.91	0.00	-9.91	
	7 (2SS)	-12.17	-13.81	0.06067	0.04159	0.10226	-9.90	0.00	-9.90	
	8 (2SS)	-12.21	-13.86	0.06012	0.04111	0.10123	-9.95	0.00	-9.95	
	9 (2SS)	-12.15	-13.84	0.06095	0.04130	0.10226	-9.90	0.00	-9.90	
	10 (2SS)	-12.18	-13.69	0.06053	0.04276	0.10329	-9.86	0.00	-9.86	
	11 (2SS)	-12.17	-13.75	0.06067	0.04217	0.10284	-9.88	0.00	-9.88	

* Worst rate (* SS: Spatial Stream)

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

All comparison were carried out on same frequency and measurement factors.

*1) Duty factor is 0, since this measurement was performed only on the on time using the gate function of power meter.

*Worst rate check was performed at different power setting than the main measurements.

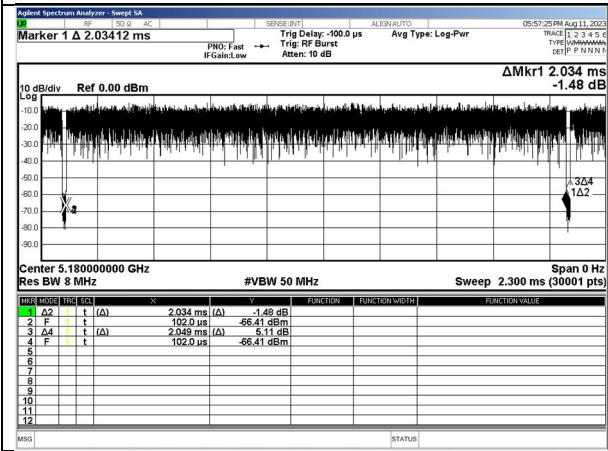
Burst rate confirmation

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.2 Measurement Room
August 11, 2023
26 deg. C / 35 % RH
Kenichi Adachi
Tx

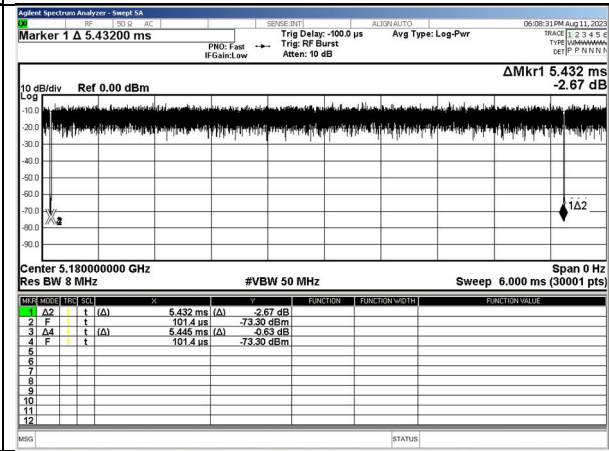
**11a
54 Mbps**

Tx on / (Tx on + Tx off) =	0.993
Tx on / (Tx on + Tx off) * 100 =	99.3 %
Duty factor = 10 * log (2.049 / 2.034) =	0.03 dB
VBW: 1 / x = 491.642 Hz <	0.50 kHz
x: (Tx on) =	2.03 ms



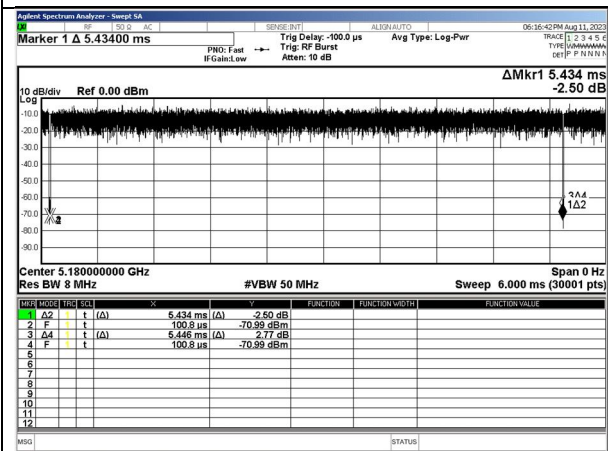
**11n-20 (CDD)
MCS 5**

Tx on / (Tx on + Tx off) =	0.998
Tx on / (Tx on + Tx off) * 100 =	99.8 %
Duty factor = 10 * log (5.445 / 5.432) =	0.01 dB
VBW: 1 / x = 184.094 Hz <	0.20 kHz
x: (Tx on) =	5.43 ms



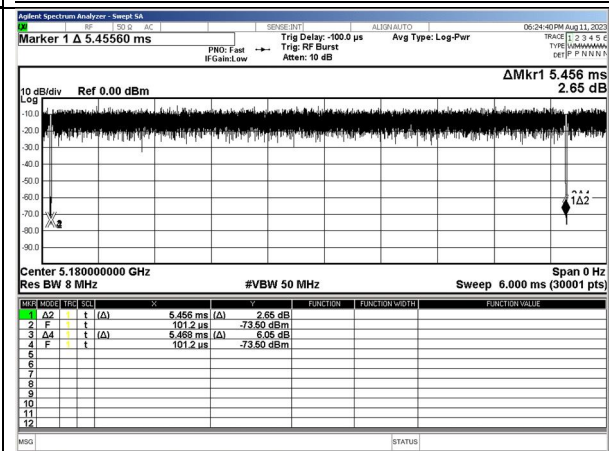
**11ac-20 (CDD)
MCS 8**

Tx on / (Tx on + Tx off) =	0.998
Tx on / (Tx on + Tx off) * 100 =	99.8 %
Duty factor = 10 * log (5.446 / 5.434) =	0.01 dB
VBW: 1 / x = 184.026 Hz <	0.20 kHz
x: (Tx on) =	5.43 ms



**11ax-20 [OFDM] (CDD)
MCS 11**

Tx on / (Tx on + Tx off) =	0.998
Tx on / (Tx on + Tx off) * 100 =	99.8 %
Duty factor = 10 * log (5.468 / 5.456) =	0.01 dB
VBW: 1 / x = 183.284 Hz <	0.20 kHz
x: (Tx on) =	5.46 ms



Burst rate confirmation

Test place

Shonan EMC Lab.

Date

August 11, 2023

Temperature / Humidity

26 deg. C / 35 % RH

Engineer

Kenichi Adachi

Mode

Tx

No.5 Shielded Room

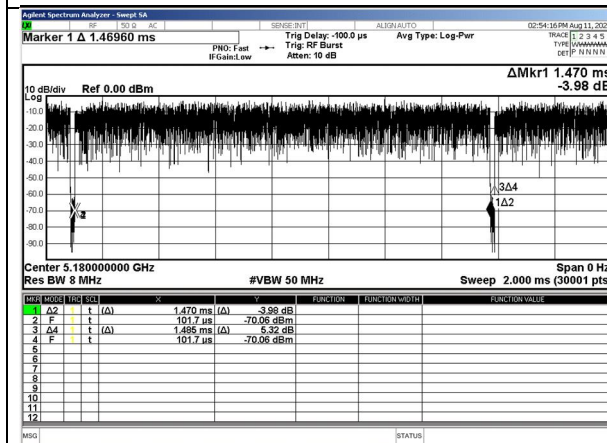
March 20, 2024

25 deg. C / 32 % RH

Makoto Hosaka

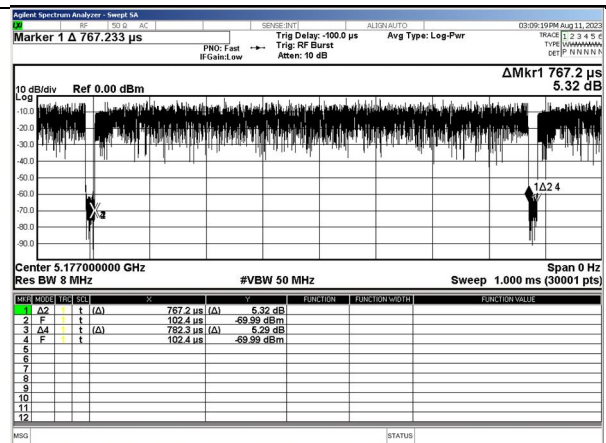
11ax-20 [26-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.990
Tx on / (Tx on + Tx off) * 100 = 99.0 %
Duty factor = $10 * \log (1.485 / 1.470) = 0.04 \text{ dB}$
VBW: $1 / x = 680.272 \text{ Hz} < 1.00 \text{ kHz}$
x: (Tx on) = 1.47 ms



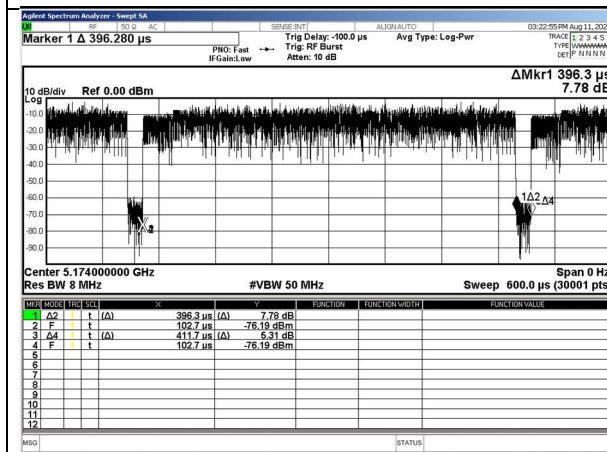
11ax-20 [52-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.981
Tx on / (Tx on + Tx off) * 100 = 98.1 %
Duty factor = $10 * \log (0.782 / 0.767) = 0.08 \text{ dB}$
VBW: $1 / x = 1303.441 \text{ Hz} < 2.00 \text{ kHz}$
x: (Tx on) = 0.77 ms



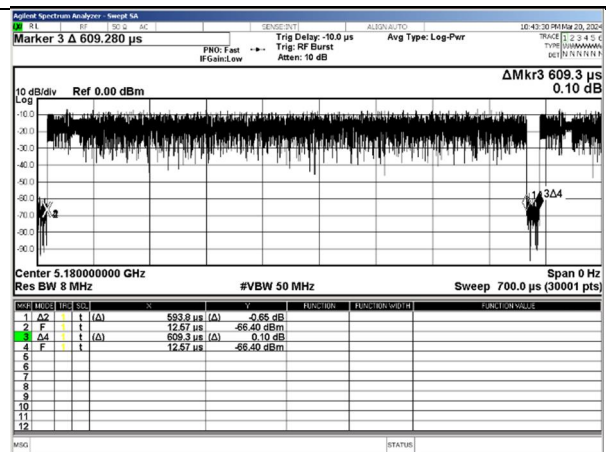
11ax-20 [106-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.961
Tx on / (Tx on + Tx off) * 100 = 96.1 %
Duty factor = $10 * \log (0.412 / 0.396) = 0.17 \text{ dB}$
VBW: $1 / x = 2523.341 \text{ Hz} < 3.00 \text{ kHz}$
x: (Tx on) = 0.40 ms



11ax-20 [242-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.975
Tx on / (Tx on + Tx off) * 100 = 97.5 %
Duty factor = $10 * \log (0.609 / 0.594) = 0.11 \text{ dB}$
VBW: $1 / x = 1684.069 \text{ Hz} < 2.00 \text{ kHz}$
x: (Tx on) = 0.59 ms



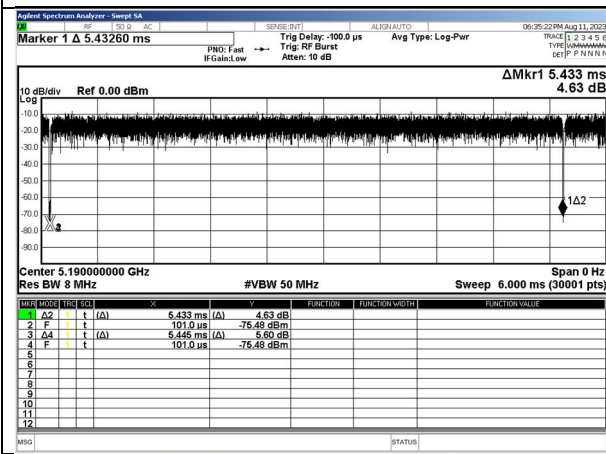
Burst rate confirmation

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.2 Measurement Room
August 11, 2023
26 deg. C / 35 % RH
Kenichi Adachi
Tx

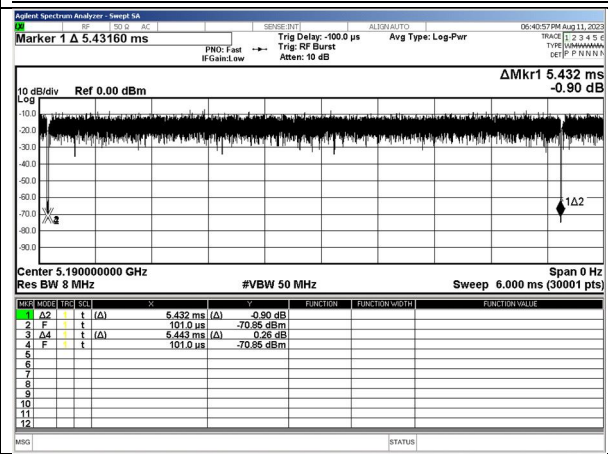
**11n-40 (CDD)
MCS 7**

Tx on / (Tx on + Tx off) =	0.998
Tx on / (Tx on + Tx off) * 100 =	99.8 %
Duty factor = 10 * log (5.445 / 5.433) =	0.01 dB
VBW: 1 / x = 184.06 Hz <	0.20 kHz
x: (Tx on) =	5.43 ms



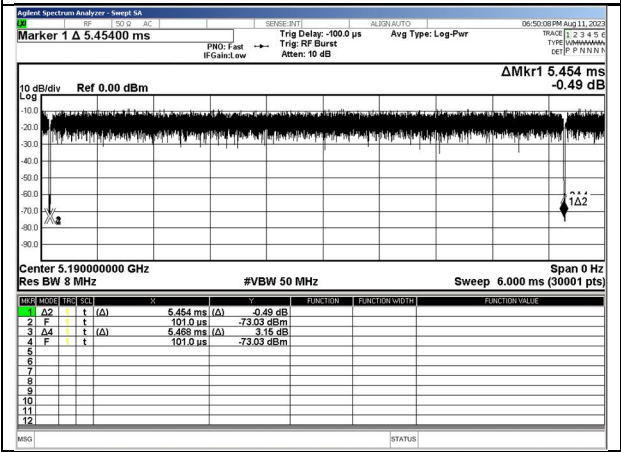
**11ac-40 (CDD)
MCS 9**

Tx on / (Tx on + Tx off) =	0.998
Tx on / (Tx on + Tx off) * 100 =	99.8 %
Duty factor = 10 * log (5.443 / 5.432) =	0.01 dB
VBW: 1 / x = 184.094 Hz <	0.20 kHz
x: (Tx on) =	5.43 ms



**11ax-40 [OFDM]
MCS 11**

Tx on / (Tx on + Tx off) =	0.997
Tx on / (Tx on + Tx off) * 100 =	99.7 %
Duty factor = 10 * log (5.468 / 5.454) =	0.01 dB
VBW: 1 / x = 183.352 Hz <	0.20 kHz
x: (Tx on) =	5.45 ms



Burst rate confirmation

Test place

Shonan EMC Lab.

Date

August 11, 2023

Temperature / Humidity

26 deg. C / 35 % RH

Engineer

Kenichi Adachi

Mode

Tx

No.2 Measurement Room

No.5 Shielded Room

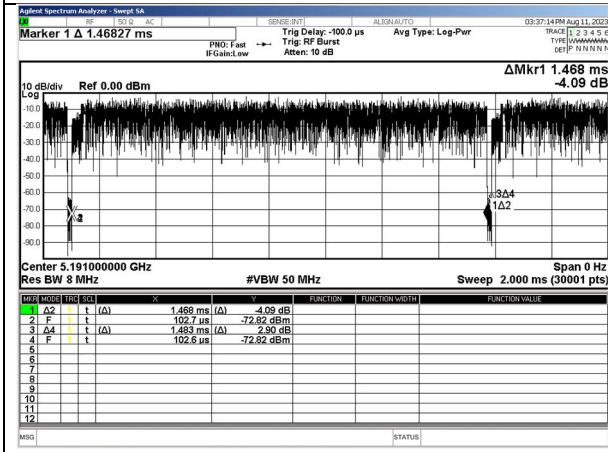
March 22, 2024

23 deg. C / 36 % RH

Yuta Shiba

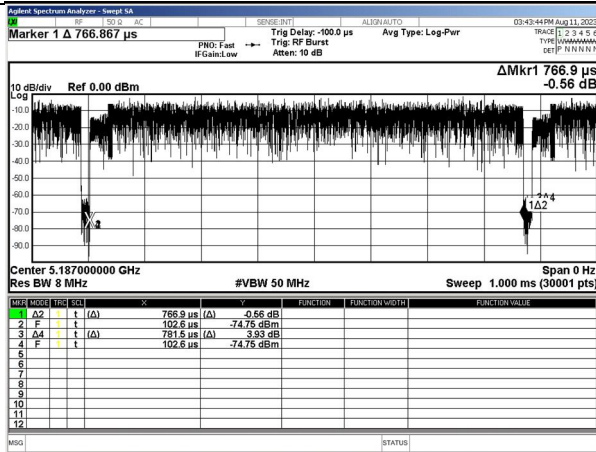
11ax-40 [26-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.990
Tx on / (Tx on + Tx off) * 100 = 99.0 %
Duty factor = $10 * \log (1.483 / 1.468) = 0.04 \text{ dB}$
VBW: $1 / x = 681.199 \text{ Hz} < 1.00 \text{ kHz}$
x: (Tx on) = 1.47 ms



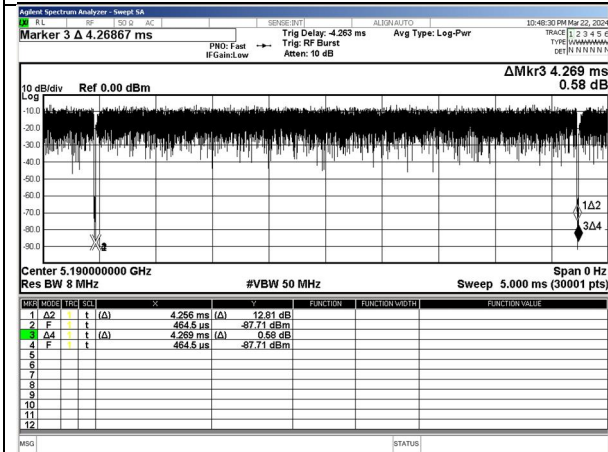
11ax-40 [52-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.981
Tx on / (Tx on + Tx off) * 100 = 98.1 %
Duty factor = $10 * \log (0.782 / 0.767) = 0.08 \text{ dB}$
VBW: $1 / x = 1303.951 \text{ Hz} < 2.00 \text{ kHz}$
x: (Tx on) = 0.77 ms



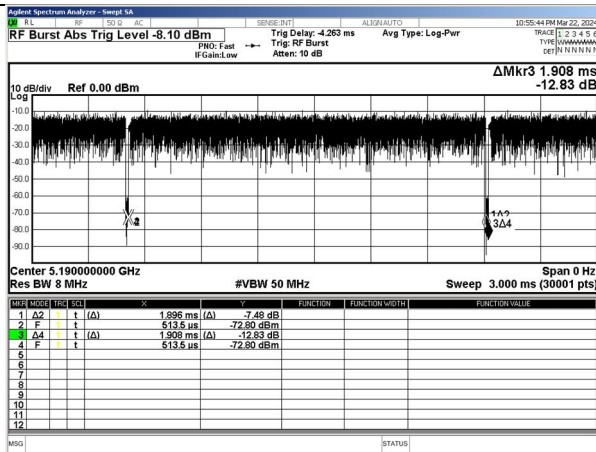
11ax-40 [106-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.997
Tx on / (Tx on + Tx off) * 100 = 99.7 %
Duty factor = $10 * \log (4.269 / 4.256) = 0.01 \text{ dB}$
VBW: $1 / x = 234.962 \text{ Hz} < 0.30 \text{ kHz}$
x: (Tx on) = 4.26 ms



11ax-40 [242-tone RU] (CDD) MCS 11

Tx on / (Tx on + Tx off) = 0.994
Tx on / (Tx on + Tx off) * 100 = 99.4 %
Duty factor = $10 * \log (1.908 / 1.896) = 0.03 \text{ dB}$
VBW: $1 / x = 527.426 \text{ Hz} < 1.00 \text{ kHz}$
x: (Tx on) = 1.90 ms



Shonan EMC Lab. No.5 Shielded Room
March 22, 2024
23 deg. C / 36 % RH
Yuta Shiba
Tx

$$\frac{1 \times 0.11}{(1 \times 0.11 + 1 \times 0.11)} = 0.501$$
[illegible]

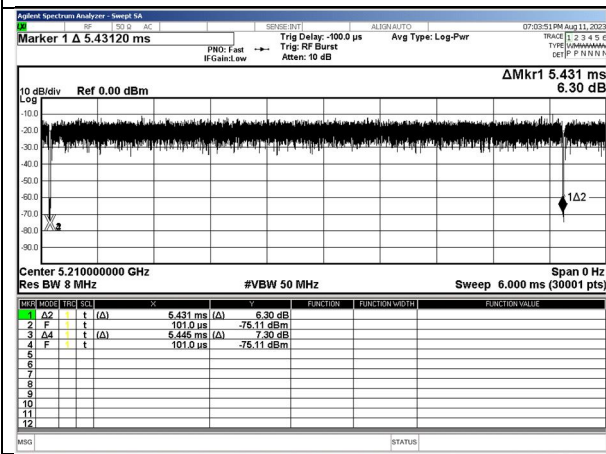
Burst rate confirmation

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.2 Measurement Room
August 11, 2023
26 deg. C / 35 % RH
Kenichi Adachi
Tx

**11ac-80 (CDD)
MCS 9**

Tx on / (Tx on + Tx off) =	0.997
Tx on / (Tx on + Tx off) * 100 =	99.7 %
Duty factor = 10 * log (5.445 / 5.431) =	0.01 dB
VBW: 1 / x = 184.128 Hz <	0.20 kHz
x: (Tx on) =	5.43 ms



**11ax-80 [OFDM]
MCS 9**

Tx on / (Tx on + Tx off) =	0.998
Tx on / (Tx on + Tx off) * 100 =	99.8 %
Duty factor = 10 * log (5.468 / 5.458) =	0.01 dB
VBW: 1 / x = 183.217 Hz <	0.20 kHz
x: (Tx on) =	5.46 ms

