

Burst rate confirmation

Test place

Shonan EMC Lab.

No.5 Shielded Room

Date

August 11, 2023

March 22, 2024

Temperature / Humidity

26 deg. C / 35 % RH

23 deg. C / 36 % RH

Engineer

Kenichi Adachi

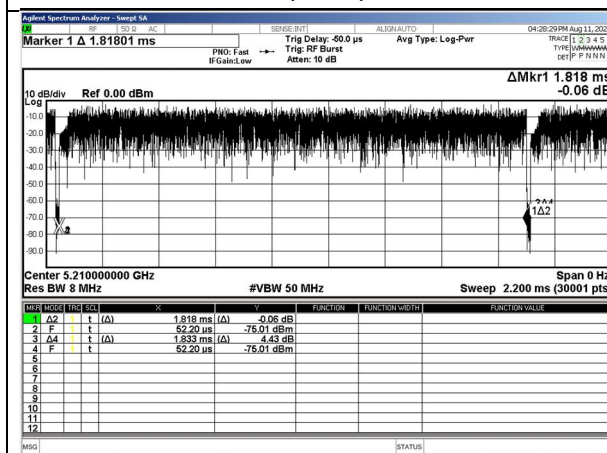
Yuta Shiba

Mode

Tx

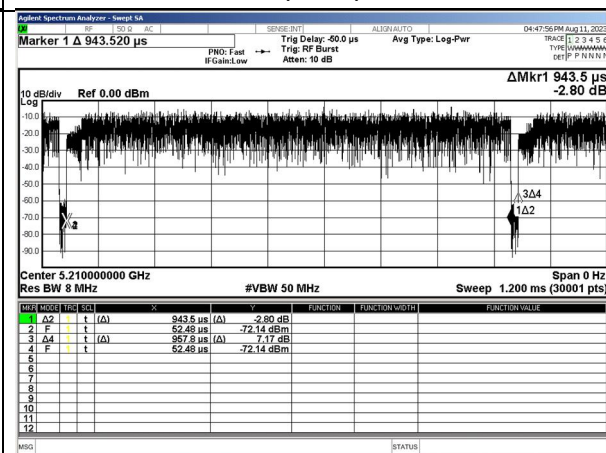
11ax-80 [26-tone RU] (CDD)
MCS 9

Tx on / (Tx on + Tx off) =	0.992
Tx on / (Tx on + Tx off) * 100 =	99.2 %
Duty factor = 10 * log (1.833 / 1.818) =	0.04 dB
VBW: 1 / x = 550.055 Hz <	1.00 kHz
x: (Tx on) =	1.82 ms



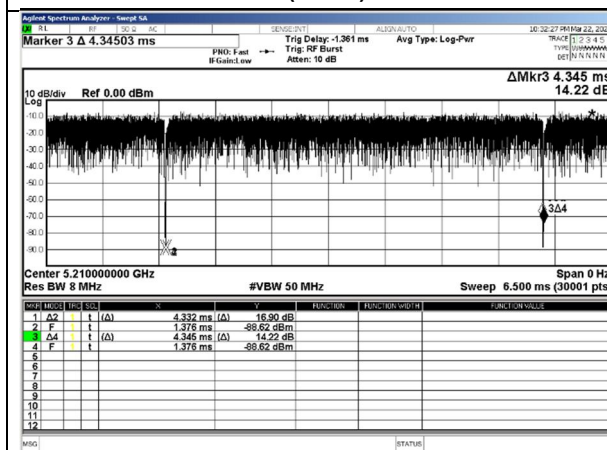
11ax-80 [52-tone RU] (CDD)
MCS 9

Tx on / (Tx on + Tx off) =	0.985
Tx on / (Tx on + Tx off) * 100 =	98.5 %
Duty factor = 10 * log (0.958 / 0.944) =	0.07 dB
VBW: 1 / x = 1059.884 Hz <	2.00 kHz
x: (Tx on) =	0.94 ms



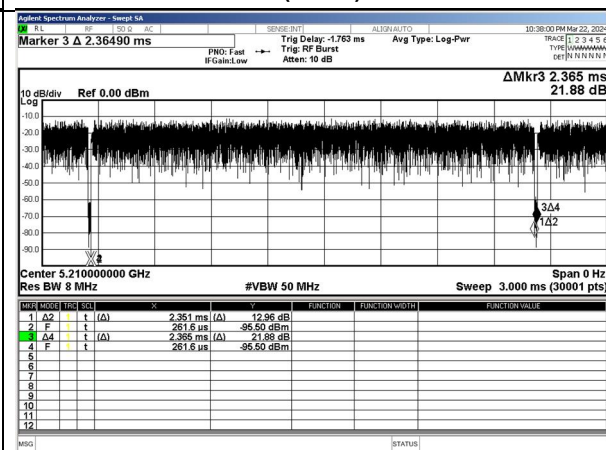
11ax-80 [106-tone RU] (CDD)
MCS 9

Tx on / (Tx on + Tx off) =	0.997
Tx on / (Tx on + Tx off) * 100 =	99.7 %
Duty factor = 10 * log (4.345 / 4.332) =	0.01 dB
VBW: 1 / x = 2089.427 Hz <	3.00 kHz
x: (Tx on) =	4.33 ms



11ax-80 [242-tone RU] (CDD)
MCS 9

Tx on / (Tx on + Tx off) =	0.994
Tx on / (Tx on + Tx off) * 100 =	99.4 %
Duty factor = 10 * log (2.365 / 2.351) =	0.03 dB
VBW: 1 / x = 425.351 Hz <	0.50 kHz
x: (Tx on) =	2.35 ms



UL Japan, Inc. Shonan EMC Lab.

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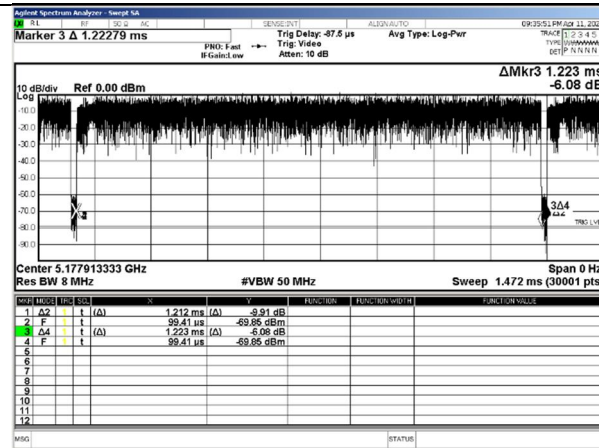
Burst rate confirmation

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.8 Shielded Room
April 11, 2024
24 deg. C / 46 % RH
Takayuki Kobayashi
Tx

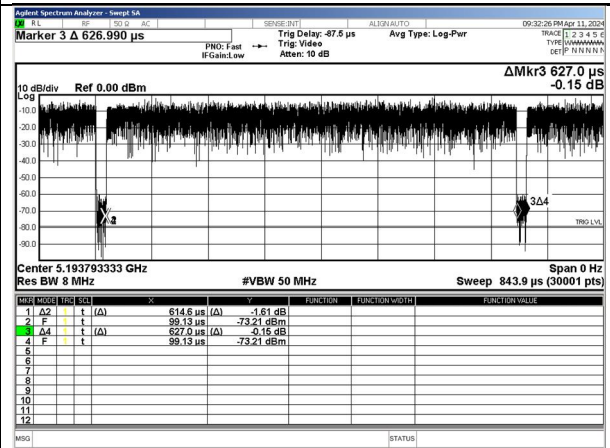
**11ax-80 [484-tone RU]
MCS 9**

Tx on / (Tx on + Tx off) =	0.991
Tx on / (Tx on + Tx off) * 100 =	99.1 %
Duty factor = 10 * log (1.223 / 1.212) =	0.04 dB
VBW: 1 / x = 825.083 Hz <	1.00 kHz
x: (Tx on) =	1.21 ms



**11ax-80 [996-tone RU]
MCS 9**

Tx on / (Tx on + Tx off) =	0.981
Tx on / (Tx on + Tx off) * 100 =	98.1 %
Duty factor = 10 * log (0.627 / 0.615) =	0.08 dB
VBW: 1 / x = 1627.075 Hz <	2.00 kHz
x: (Tx on) =	0.62 ms



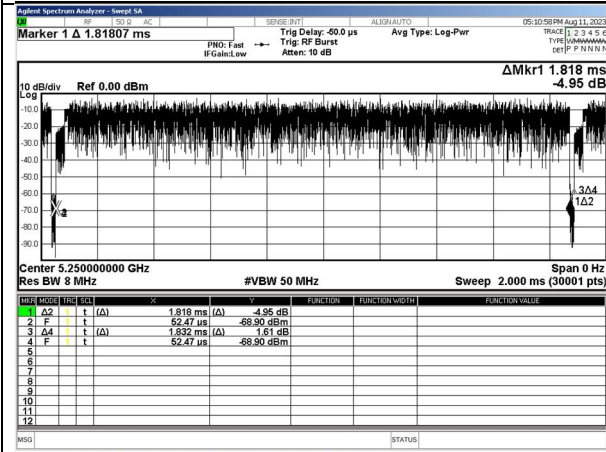
$$\frac{1 \times 0.11}{(1 \times 0.11 + 1 \times 0.11)} = 0.500$$
$$\frac{1 \times 0.11}{(1 \times 0.11 + 1 \times 0.11)} \times 100 = 50.0\%$$


Burst rate confirmation

Test place	Shonan EMC Lab.	
	No.2 Measurement Room	No.5 Shielded Room
Date	August 11, 2023	March 22, 2024
Temperature / Humidity	26 deg. C / 35 % RH	23 deg. C / 36 % RH
Engineer	Kenichi Adachi	Yuta Shiba
Mode	Tx	

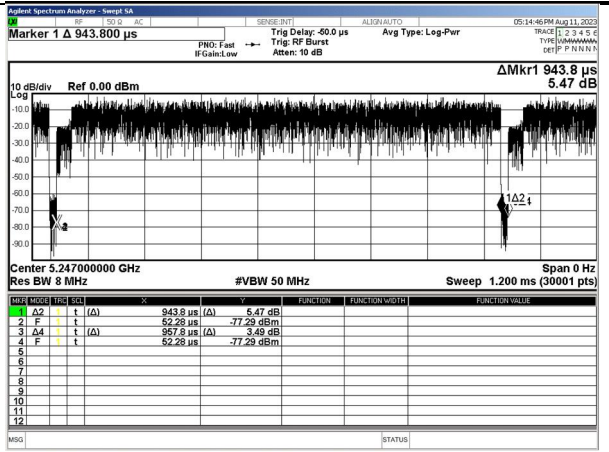
**11ax-160 [26-tone RU] (CDD)
MCS 9**

Tx on / (Tx on + Tx off) = 0.992
Tx on / (Tx on + Tx off) * 100 = 99.2 %
Duty factor = 10 * log (1.832 / 1.818) = 0.03 dB
VBW: 1 / x = 550.055 Hz < 1.00 kHz
x: (Tx on) = 1.82 ms



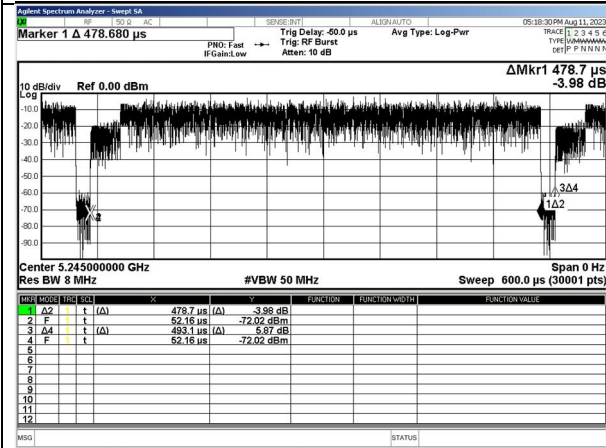
**11ax-160 [52-tone RU] (CDD)
MCS 9**

Tx on / (Tx on + Tx off) = 0.985
Tx on / (Tx on + Tx off) * 100 = 98.5 %
Duty factor = 10 * log (0.958 / 0.944) = 0.06 dB
VBW: 1 / x = 1059.547 Hz < 2.00 kHz
x: (Tx on) = 0.94 ms



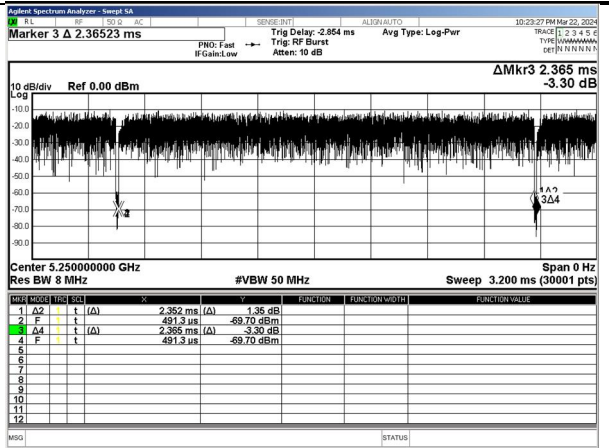
**11ax-160 [106-tone RU] (CDD)
MCS 9**

Tx on / (Tx on + Tx off) = 0.972
Tx on / (Tx on + Tx off) * 100 = 97.2 %
Duty factor = 10 * log (0.493 / 0.479) = 0.13 dB
VBW: 1 / x = 2088.991 Hz < 3.00 kHz
x: (Tx on) = 0.48 ms



**11ax-160 [242-tone RU] (CDD)
MCS 9**

Tx on / (Tx on + Tx off) = 0.995
Tx on / (Tx on + Tx off) * 100 = 99.5 %
Duty factor = 10 * log (2.365 / 2.352) = 0.02 dB
VBW: 1 / x = 425.17 Hz < 0.50 kHz
x: (Tx on) = 2.35 ms

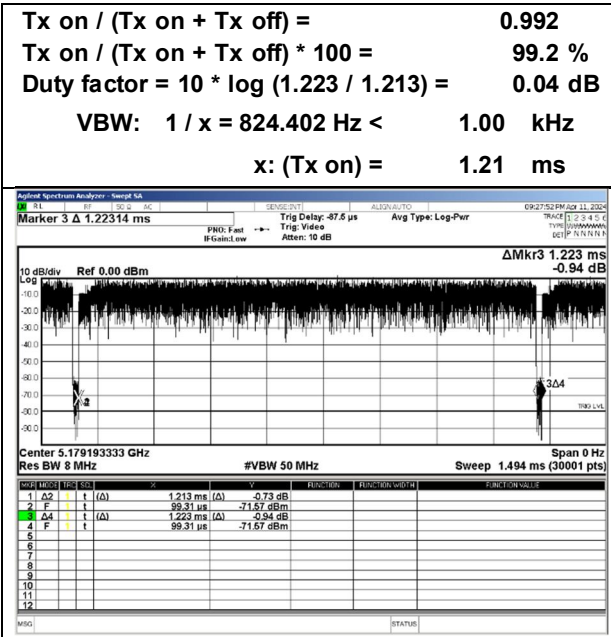


Burst rate confirmation

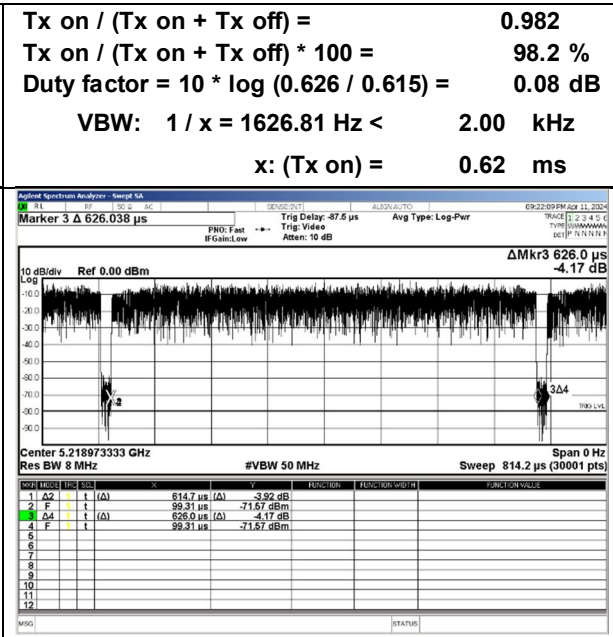
Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.8 Shielded Room
April 11, 2024
24 deg. C / 46 % RH
Takayuki Kobayashi
Tx

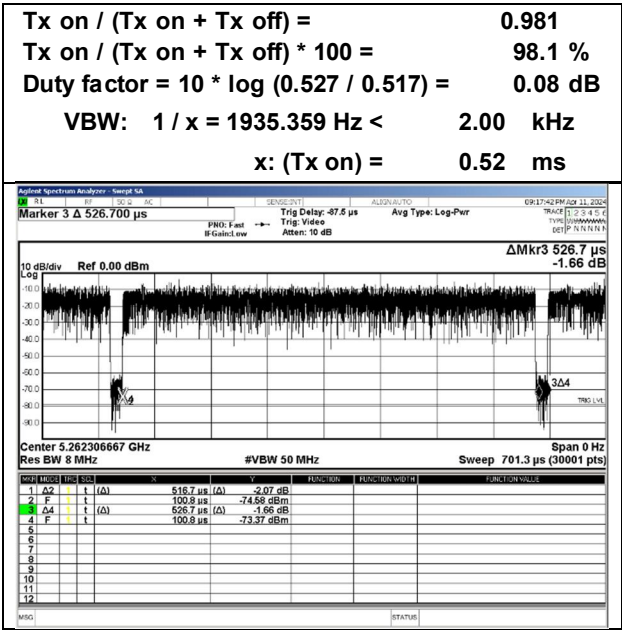
**11ax-160 [484-tone RU] (CDD)
MCS 9**



**11ax-160 [996-tone RU] (CDD)
MCS 9**



**11ax-160 [2x996-tone RU] (CDD)
MCS 9**



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 16, 2024
Temperature / Humidity 23 deg. C / 34 % RH
Engineer Masahide Ozaki
Mode Tx 11a

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]				1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]			
5180	1.08	0.97	2.06	3.13	11.00	7.87	2.82	2.53	5.34	7.28	17.00	9.72
5220	1.03	0.88	1.91	2.82	11.00	8.18	2.69	2.28	4.97	6.97	17.00	10.03
5240	1.04	0.94	1.98	2.97	11.00	8.03	2.70	2.45	5.15	7.12	17.00	9.88
5260	1.00	0.90	1.90	2.80	11.00	8.20	2.61	2.34	4.95	6.95	17.00	10.05
5300	1.07	0.98	2.05	3.12	11.00	7.88	2.79	2.54	5.33	7.27	17.00	9.73
5320	1.07	0.91	1.99	2.98	11.00	8.02	2.80	2.37	5.16	7.13	17.00	9.87
5500	0.87	1.03	1.89	2.77	11.00	8.23	2.26	2.67	4.92	6.92	17.00	10.08
5580	1.04	1.10	2.14	3.31	11.00	7.69	2.72	2.86	5.57	7.46	17.00	9.54
5700	0.88	0.88	1.76	2.45	11.00	8.55	2.30	2.28	4.57	6.60	17.00	10.40
5720	0.84	0.89	1.73	2.38	11.00	8.62	2.19	2.32	4.50	6.53	17.00	10.47
5745	0.47	0.49	0.96	-0.18	30.00	30.18	1.23	1.26	2.49	3.97	36.00	32.03
5785	0.48	0.52	1.00	0.02	30.00	29.98	1.26	1.35	2.61	4.17	36.00	31.83
5825	0.46	0.49	0.95	-0.21	30.00	30.21	1.19	1.29	2.48	3.94	36.00	32.06

5G_CH0									5G_CH1					
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	0.03	0.00	-12.30	2.40	10.22	4.15	0.35	4.50	-12.50	2.41	9.93	4.15	-0.13	4.02
5220	0.03	0.00	-12.50	2.40	10.22	4.15	0.15	4.30	-12.94	2.41	9.93	4.15	-0.57	3.58
5240	0.03	0.00	-12.48	2.40	10.22	4.15	0.17	4.32	-12.62	2.41	9.93	4.15	-0.25	3.90
5260	0.03	0.00	-12.66	2.43	10.22	4.15	0.02	4.17	-12.88	2.46	9.93	4.15	-0.46	3.69
5300	0.03	0.00	-12.37	2.43	10.22	4.15	0.31	4.46	-12.52	2.46	9.93	4.15	-0.10	4.05
5320	0.03	0.00	-12.37	2.43	10.22	4.15	0.31	4.46	-12.83	2.46	9.93	4.15	-0.41	3.74
5500	0.03	0.00	-13.32	2.45	10.22	4.15	-0.62	3.53	-12.36	2.50	9.94	4.15	0.11	4.26
5580	0.03	0.00	-12.51	2.45	10.22	4.15	0.19	4.34	-12.06	2.50	9.94	4.15	0.41	4.56
5700	0.03	0.00	-13.24	2.45	10.22	4.15	-0.54	3.61	-13.04	2.50	9.94	4.15	-0.57	3.58
5720	0.03	0.00	-13.43	2.43	10.22	4.15	-0.75	3.40	-12.93	2.46	9.94	4.15	-0.50	3.65
5745	0.03	0.27	-16.20	2.43	10.22	4.15	-3.25	0.90	-15.83	2.46	9.94	4.15	-3.13	1.02
5785	0.03	0.27	-16.11	2.43	10.22	4.15	-3.16	0.99	-15.53	2.46	9.94	4.15	-2.83	1.32
5825	0.03	0.27	-16.36	2.46	10.22	4.15	-3.38	0.77	-15.80	2.50	9.94	4.15	-3.06	1.09

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain
Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$
Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 16, 2024
Temperature / Humidity 23 deg. C / 34 % RH
Engineer Masahide Ozaki
Mode Tx 11n-20 CDD

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna		Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna		Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
	1 [mW/MHz]	2 [mW/MHz]					1 [mW/MHz]	2 [mW/MHz]				
5180	0.92	0.86	1.77	2.49	11.00	8.51	2.38	2.23	4.61	6.64	17.00	10.36
5220	0.91	0.81	1.72	2.36	11.00	8.64	2.37	2.10	4.47	6.51	17.00	10.49
5240	0.96	0.92	1.87	2.73	11.00	8.27	2.49	2.39	4.87	6.88	17.00	10.12
5260	0.93	0.88	1.81	2.57	11.00	8.43	2.41	2.29	4.70	6.72	17.00	10.28
5300	1.02	0.85	1.88	2.73	11.00	8.27	2.65	2.22	4.88	6.88	17.00	10.12
5320	0.97	0.85	1.82	2.61	11.00	8.39	2.53	2.21	4.74	6.76	17.00	10.24
5500	0.92	0.93	1.85	2.68	11.00	8.32	2.40	2.42	4.82	6.83	17.00	10.17
5580	0.97	1.00	1.97	2.95	11.00	8.05	2.52	2.61	5.13	7.10	17.00	9.90
5700	0.82	0.84	1.66	2.19	11.00	8.81	2.12	2.18	4.31	6.34	17.00	10.66
5720	0.86	0.80	1.66	2.20	11.00	8.80	2.24	2.08	4.32	6.35	17.00	10.65
5745	0.44	0.45	0.89	-0.50	30.00	30.50	1.15	1.17	2.32	3.65	36.00	32.35
5785	0.46	0.53	0.98	-0.08	30.00	30.08	1.19	1.37	2.56	4.07	36.00	31.93
5825	0.40	0.45	0.85	-0.70	30.00	30.70	1.05	1.17	2.21	3.45	36.00	32.55

5G_CH0									5G_CH1					
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	0.01	0.00	-13.01	2.40	10.22	4.15	-0.38	3.77	-13.02	2.41	9.93	4.15	-0.67	3.48
5220	0.01	0.00	-13.03	2.40	10.22	4.15	-0.40	3.75	-13.27	2.41	9.93	4.15	-0.92	3.23
5240	0.01	0.00	-12.82	2.40	10.22	4.15	-0.19	3.96	-12.72	2.41	9.93	4.15	-0.37	3.78
5260	0.01	0.00	-12.99	2.43	10.22	4.15	-0.33	3.82	-12.95	2.46	9.93	4.15	-0.55	3.60
5300	0.01	0.00	-12.57	2.43	10.22	4.15	0.09	4.24	-13.08	2.46	9.93	4.15	-0.68	3.47
5320	0.01	0.00	-12.79	2.43	10.22	4.15	-0.13	4.03	-13.10	2.46	9.93	4.15	-0.70	3.45
5500	0.01	0.00	-13.03	2.45	10.22	4.15	-0.34	3.81	-12.76	2.50	9.94	4.15	-0.31	3.84
5580	0.01	0.00	-12.82	2.45	10.22	4.15	-0.14	4.01	-12.43	2.50	9.94	4.15	0.02	4.17
5700	0.01	0.00	-13.56	2.45	10.22	4.15	-0.88	3.27	-13.21	2.50	9.94	4.15	-0.76	3.39
5720	0.01	0.00	-13.30	2.43	10.22	4.15	-0.64	3.51	-13.39	2.46	9.94	4.15	-0.98	3.18
5745	0.01	0.27	-16.48	2.43	10.22	4.15	-3.55	0.60	-16.15	2.46	9.94	4.15	-3.47	0.68
5785	0.01	0.27	-16.32	2.43	10.22	4.15	-3.40	0.75	-15.48	2.46	9.94	4.15	-2.80	1.35
5825	0.01	0.27	-16.90	2.46	10.22	4.15	-3.94	0.21	-16.20	2.50	9.94	4.15	-3.49	0.66

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain
Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$
Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 17, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Masahide Ozaki
Mode Tx 11ac-20 CDD

5G_CH0 + 5G_CH1

Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]				1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]			
5180	0.98	0.81	1.79	2.53	11.00	8.47	2.55	2.11	4.65	6.68	17.00	10.32
5220	0.93	0.81	1.74	2.42	11.00	8.58	2.43	2.11	4.53	6.57	17.00	10.43
5240	0.92	0.85	1.77	2.49	11.00	8.51	2.40	2.21	4.61	6.64	17.00	10.36
5260	0.90	0.86	1.76	2.46	11.00	8.54	2.34	2.24	4.58	6.61	17.00	10.39
5300	0.98	0.87	1.85	2.66	11.00	8.34	2.54	2.25	4.80	6.81	17.00	10.19
5320	0.97	0.84	1.80	2.56	11.00	8.44	2.52	2.17	4.69	6.71	17.00	10.29
5500	0.92	0.99	1.91	2.80	11.00	8.20	2.38	2.57	4.95	6.95	17.00	10.05
5580	0.96	1.03	1.99	2.99	11.00	8.01	2.48	2.69	5.17	7.14	17.00	9.86
5700	0.80	0.85	1.65	2.18	11.00	8.82	2.09	2.21	4.30	6.33	17.00	10.67
5720	0.76	0.83	1.59	2.03	11.00	8.97	1.99	2.16	4.15	6.18	17.00	10.82
5745	0.39	0.40	0.79	-1.02	30.00	31.02	1.01	1.04	2.05	3.13	36.00	32.87
5785	0.44	0.45	0.89	-0.51	30.00	30.51	1.15	1.16	2.31	3.64	36.00	32.36
5825	0.40	0.41	0.81	-0.90	30.00	30.90	1.04	1.07	2.11	3.25	36.00	32.75

5G_CH0									5G_CH1					
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	0.01	0.00	-12.72	2.40	10.22	4.15	-0.09	4.06	-13.27	2.41	9.93	4.15	-0.92	3.23
5220	0.01	0.00	-12.93	2.40	10.22	4.15	-0.30	3.85	-13.26	2.41	9.93	4.15	-0.91	3.24
5240	0.01	0.00	-12.98	2.40	10.22	4.15	-0.35	3.80	-13.05	2.41	9.93	4.15	-0.70	3.45
5260	0.01	0.00	-13.12	2.43	10.22	4.15	-0.46	3.69	-13.04	2.46	9.93	4.15	-0.64	3.51
5300	0.01	0.00	-12.75	2.43	10.22	4.15	-0.09	4.06	-13.02	2.46	9.93	4.15	-0.62	3.53
5320	0.01	0.00	-12.80	2.43	10.22	4.15	-0.14	4.01	-13.18	2.46	9.93	4.15	-0.78	3.37
5500	0.01	0.00	-13.06	2.45	10.22	4.15	-0.38	3.77	-12.50	2.50	9.94	4.15	-0.05	4.10
5580	0.01	0.00	-12.88	2.45	10.22	4.15	-0.20	3.95	-12.31	2.50	9.94	4.15	0.14	4.29
5700	0.01	0.00	-13.64	2.45	10.22	4.15	-0.95	3.20	-13.15	2.50	9.94	4.15	-0.70	3.45
5720	0.01	0.00	-13.83	2.43	10.22	4.15	-1.17	2.98	-13.21	2.46	9.94	4.15	-0.80	3.35
5745	0.01	0.27	-17.02	2.43	10.22	4.15	-4.09	0.06	-16.66	2.46	9.94	4.15	-3.98	0.17
5785	0.01	0.27	-16.48	2.43	10.22	4.15	-3.55	0.60	-16.17	2.46	9.94	4.15	-3.49	0.66
5825	0.01	0.27	-16.92	2.46	10.22	4.15	-3.96	0.19	-16.57	2.50	9.94	4.15	-3.85	0.30

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 2, 2024
Temperature / Humidity 22 deg. C / 26 % RH
Engineer Iku Ikudome
Mode Tx 11ax-20 CDD

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
	1 [mW/MHz]	2 [mW/MHz]					1 [mW/MHz]	2 [mW/MHz]				
5180	0.95	0.85	1.80	2.56	11.00	8.44	2.47	2.22	4.68	6.71	17.00	10.29
5220	0.89	0.82	1.71	2.32	11.00	8.68	2.30	2.14	4.44	6.47	17.00	10.53
5240	0.95	0.90	1.85	2.68	11.00	8.32	2.48	2.34	4.82	6.83	17.00	10.17
5260	0.98	0.90	1.88	2.73	11.00	8.27	2.54	2.34	4.88	6.88	17.00	10.12
5300	0.96	0.92	1.89	2.76	11.00	8.24	2.51	2.40	4.90	6.91	17.00	10.09
5320	1.06	0.99	2.05	3.11	11.00	7.89	2.75	2.57	5.32	7.26	17.00	9.74
5500	0.98	0.99	1.97	2.95	11.00	8.05	2.55	2.58	5.12	7.10	17.00	9.90
5580	0.95	1.12	2.08	3.17	11.00	7.83	2.47	2.92	5.40	7.32	17.00	9.68
5700	0.79	0.84	1.63	2.13	11.00	8.87	2.07	2.18	4.25	6.28	17.00	10.72
5720	0.83	0.96	1.79	2.52	11.00	8.48	2.15	2.50	4.65	6.67	17.00	10.33
5745	0.44	0.43	0.87	-0.60	30.00	30.60	1.15	1.11	2.27	3.55	36.00	32.45
5785	0.44	0.46	0.90	-0.45	30.00	30.45	1.15	1.19	2.34	3.70	36.00	32.30
5825	0.43	0.42	0.85	-0.72	30.00	30.72	1.11	1.09	2.21	3.43	36.00	32.57

5G_CH0									5G_CH1					
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directinal Gain	PSD Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directinal Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	0.01	0.00	-12.86	2.40	10.22	4.15	-0.23	3.92	-13.04	2.41	9.93	4.15	-0.69	3.46
5220	0.01	0.00	-13.16	2.40	10.22	4.15	-0.53	3.62	-13.20	2.41	9.93	4.15	-0.85	3.30
5240	0.01	0.00	-12.84	2.40	10.22	4.15	-0.21	3.94	-12.81	2.41	9.93	4.15	-0.46	3.69
5260	0.01	0.00	-12.76	2.43	10.22	4.15	-0.10	4.05	-12.86	2.46	9.93	4.15	-0.46	3.69
5300	0.01	0.00	-12.82	2.43	10.22	4.15	-0.16	3.99	-12.75	2.46	9.93	4.15	-0.35	3.80
5320	0.01	0.00	-12.42	2.43	10.22	4.15	0.24	4.39	-12.45	2.46	9.93	4.15	-0.05	4.10
5500	0.01	0.00	-12.77	2.45	10.22	4.15	-0.09	4.06	-12.49	2.50	9.94	4.15	-0.04	4.11
5580	0.01	0.00	-12.90	2.45	10.22	4.15	-0.22	3.93	-11.94	2.50	9.94	4.15	0.51	4.66
5700	0.01	0.00	-13.68	2.45	10.22	4.15	-1.00	3.15	-13.21	2.50	9.94	4.15	-0.76	3.39
5720	0.01	0.00	-13.49	2.43	10.22	4.15	-0.83	3.32	-12.58	2.46	9.94	4.15	-0.17	3.98
5745	0.01	0.27	-16.46	2.43	10.22	4.15	-3.53	0.62	-16.36	2.46	9.94	4.15	-3.68	0.47
5785	0.01	0.27	-16.46	2.43	10.22	4.15	-3.53	0.62	-16.07	2.46	9.94	4.15	-3.39	0.76
5825	0.01	0.27	-16.65	2.46	10.22	4.15	-3.69	0.46	-16.48	2.50	9.94	4.15	-3.76	0.39

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain
Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$
Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 23, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20(OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5180	0	1.54	1.50	3.03	4.82	11.00	6.18		4.00	3.89	7.89	8.97	17.00	8.03	
	4	1.16	0.96	2.11	3.25	11.00	7.75		3.01	2.49	5.50	7.40	17.00	9.60	
	8	1.68	1.35	3.03	4.82	11.00	6.18		4.36	3.52	7.88	8.97	17.00	8.03	
5220	0	1.76	1.40	3.16	4.99	11.00	6.01		4.58	3.63	8.21	9.14	17.00	7.86	
	4	1.25	1.00	2.25	3.53	11.00	7.47		3.25	2.60	5.86	7.68	17.00	9.32	
	8	1.61	1.35	2.96	4.71	11.00	6.29		4.18	3.51	7.69	8.86	17.00	8.14	
5240	0	1.66	1.36	3.02	4.80	11.00	6.20		4.31	3.54	7.85	8.95	17.00	8.05	
	4	1.17	1.03	2.20	3.42	11.00	7.58		3.03	2.68	5.71	7.57	17.00	9.43	
	8	1.66	1.38	3.04	4.83	11.00	6.17		4.33	3.58	7.90	8.98	17.00	8.02	
5260	0	5.26	5.01	10.27	10.12	11.00	0.88		13.68	13.03	26.71	14.27	17.00	2.73	
	4	3.69	3.73	7.42	8.70	11.00	2.30		9.60	9.70	19.30	12.85	17.00	4.15	
	8	5.31	4.97	10.27	10.12	11.00	0.88		13.80	12.91	26.72	14.27	17.00	2.73	
5300	0	5.58	5.05	10.64	10.27	11.00	0.73		14.52	13.14	27.66	14.42	17.00	2.58	
	4	4.15	3.58	7.74	8.89	11.00	2.11		10.80	9.32	20.12	13.04	17.00	3.96	
	8	6.21	4.89	11.09	10.45	11.00	0.55		16.14	12.71	28.85	14.60	17.00	2.40	
5320	0	6.07	4.76	10.83	10.35	11.00	0.65		15.77	12.39	28.16	14.50	17.00	2.50	
	4	4.13	3.52	7.65	8.84	11.00	2.16		10.74	9.15	19.89	12.99	17.00	4.01	
	8	6.05	5.22	11.27	10.52	11.00	0.48		15.74	13.58	29.31	14.67	17.00	2.33	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				5G_CH1			
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	0	0.04	-	-20.25	1.91	20.17	4.15	1.87	6.02	-20.42	1.96	20.17	4.15	1.75	5.90
	4	0.04	-	-21.49	1.91	20.17	4.15	0.63	4.78	-22.35	1.96	20.17	4.15	-0.18	3.97
	8	0.04	-	-19.88	1.91	20.17	4.15	2.25	6.40	-20.86	1.96	20.17	4.15	1.31	5.46
5220	0	0.04	-	-19.69	1.93	20.17	4.15	2.46	6.61	-20.75	1.99	20.17	4.15	1.45	5.60
	4	0.04	-	-21.17	1.93	20.17	4.15	0.97	5.12	-22.20	1.99	20.17	4.15	0.01	4.16
	8	0.04	-	-20.09	1.93	20.17	4.15	2.06	6.21	-20.89	1.99	20.17	4.15	1.31	5.46
5240	0	0.04	-	-19.95	1.94	20.17	4.15	2.19	6.34	-20.86	1.99	20.17	4.15	1.34	5.49
	4	0.04	-	-21.48	1.94	20.17	4.15	0.66	4.81	-22.06	1.99	20.17	4.15	0.14	4.29
	8	0.04	-	-19.93	1.94	20.17	4.15	2.21	6.36	-20.82	1.99	20.17	4.15	1.38	5.53
5260	0	0.04	-	-14.94	1.95	20.17	4.15	7.21	11.36	-15.21	2.00	20.17	4.15	7.00	11.15
	4	0.04	-	-16.48	1.95	20.17	4.15	5.67	9.82	-16.49	2.00	20.17	4.15	5.72	9.87
	8	0.04	-	-14.91	1.95	20.17	4.15	7.25	11.40	-15.25	2.00	20.17	4.15	6.96	11.11
5300	0	0.04	-	-14.69	1.95	20.17	4.15	7.47	11.62	-15.18	2.00	20.17	4.15	7.04	11.19
	4	0.04	-	-15.97	1.95	20.17	4.15	6.18	10.33	-16.67	2.00	20.17	4.15	5.54	9.69
	8	0.04	-	-14.23	1.95	20.17	4.15	7.93	12.08	-15.32	2.00	20.17	4.15	6.89	11.04
5320	0	0.04	-	-14.33	1.95	20.17	4.15	7.83	11.98	-15.43	2.00	20.17	4.15	6.78	10.93
	4	0.04	-	-15.99	1.95	20.17	4.15	6.16	10.31	-16.75	2.00	20.17	4.15	5.46	9.61
	8	0.04	-	-14.34	1.95	20.17	4.15	7.82	11.97	-15.03	2.00	20.17	4.15	7.18	11.33

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 23, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20(OFDMA)(CDD) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]				
5500	0	5.53	5.35	10.88	10.37	11.00	0.63	14.37	13.91	28.29	14.52	17.00	2.48
	4	3.82	3.78	7.60	8.81	11.00	2.19	9.93	9.82	19.75	12.96	17.00	4.04
	8	4.76	5.64	10.40	10.17	11.00	0.83	12.37	14.67	27.04	14.32	17.00	2.68
5580	0	5.49	5.41	10.90	10.37	11.00	0.63	14.28	14.06	28.34	14.52	17.00	2.48
	4	3.81	4.25	8.05	9.06	11.00	1.94	9.90	11.04	20.94	13.21	17.00	3.79
	8	4.83	5.63	10.46	10.19	11.00	0.81	12.55	14.64	27.19	14.34	17.00	2.66
5700	0	5.04	4.72	9.76	9.89	11.00	1.11	13.10	12.27	25.37	14.04	17.00	2.96
	4	3.28	3.51	6.79	8.32	11.00	2.68	8.54	9.12	17.66	12.47	17.00	4.53
	8	4.41	5.00	9.42	9.74	11.00	1.26	11.48	13.01	24.49	13.89	17.00	3.11
5720	0	4.78	4.77	9.55	9.80	11.00	1.20	12.44	12.40	24.84	13.95	17.00	3.05
	4	3.29	3.44	6.73	8.28	11.00	2.72	8.55	8.95	17.50	12.43	17.00	4.57
	8	4.79	4.98	9.77	9.90	11.00	1.10	12.44	12.95	25.39	14.05	17.00	2.95
5745	0	2.59	2.94	5.53	7.43	30.00	22.57	6.75	7.64	14.39	11.58	36.00	24.42
	4	2.55	2.53	5.08	7.06	30.00	22.94	6.62	6.58	13.21	11.21	36.00	24.79
	8	2.71	2.81	5.51	7.41	30.00	22.59	7.03	7.30	14.33	11.56	36.00	24.44
5785	0	3.13	2.82	5.95	7.74	30.00	22.26	8.13	7.33	15.46	11.89	36.00	24.11
	4	2.60	2.67	5.26	7.21	30.00	22.79	6.75	6.94	13.69	11.36	36.00	24.64
	8	3.04	3.16	6.20	7.92	30.00	22.08	7.90	8.22	16.12	12.07	36.00	23.93
5825	0	2.87	2.74	5.61	7.49	30.00	22.51	7.46	7.12	14.58	11.64	36.00	24.36
	4	2.33	2.39	4.72	6.74	30.00	23.26	6.05	6.22	12.27	10.89	36.00	25.11
	8	2.96	2.93	5.88	7.70	30.00	22.30	7.69	7.61	15.30	11.85	36.00	24.15

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5500	0	0.04	-	-14.72	1.94	20.16	4.15	7.43	11.58	-14.95	2.03	20.16	4.15	7.28	11.43
	4	0.04	-	-16.33	1.94	20.16	4.15	5.82	9.97	-16.46	2.03	20.16	4.15	5.77	9.92
	8	0.04	-	-15.37	1.94	20.16	4.15	6.77	10.92	-14.72	2.03	20.16	4.15	7.51	11.66
5580	0	0.04	-	-14.76	1.96	20.17	4.15	7.40	11.55	-14.91	2.03	20.16	4.15	7.33	11.48
	4	0.04	-	-16.36	1.96	20.17	4.15	5.81	9.96	-15.96	2.03	20.16	4.15	6.28	10.43
	8	0.04	-	-15.32	1.96	20.17	4.15	6.84	10.99	-14.73	2.03	20.16	4.15	7.51	11.66
5700	0	0.04	-	-15.10	1.91	20.17	4.15	7.02	11.17	-15.44	1.98	20.16	4.15	6.74	10.89
	4	0.04	-	-16.96	1.91	20.17	4.15	5.16	9.31	-16.73	1.98	20.16	4.15	5.45	9.60
	8	0.04	-	-15.67	1.91	20.17	4.15	6.45	10.60	-15.19	1.98	20.16	4.15	6.99	11.14
5720	0	0.04	-	-15.32	1.91	20.17	4.15	6.80	10.95	-15.40	1.98	20.16	4.15	6.79	10.94
	4	0.04	-	-16.95	1.91	20.17	4.15	5.17	9.32	-16.82	1.98	20.16	4.15	5.37	9.52
	8	0.04	-	-15.32	1.91	20.17	4.15	6.80	10.95	-15.21	1.98	20.16	4.15	6.97	11.12
5745	0	0.04	0.27	-18.27	1.93	20.17	4.15	4.14	8.29	-17.79	2.00	20.16	4.15	4.68	8.83
	4	0.04	0.27	-18.35	1.93	20.17	4.15	4.06	8.21	-18.44	2.00	20.16	4.15	4.04	8.19
	8	0.04	0.27	-18.09	1.93	20.17	4.15	4.32	8.47	-17.99	2.00	20.16	4.15	4.48	8.63
5785	0	0.04	0.27	-17.47	1.94	20.17	4.15	4.95	9.10	-17.96	1.99	20.16	4.15	4.50	8.65
	4	0.04	0.27	-18.28	1.94	20.17	4.15	4.14	8.29	-18.20	1.99	20.16	4.15	4.26	8.41
	8	0.04	0.27	-17.60	1.94	20.17	4.15	4.83	8.98	-17.46	1.99	20.16	4.15	5.00	9.15
5825	0	0.04	0.27	-17.83	1.93	20.17	4.15	4.58	8.73	-18.11	2.01	20.16	4.15	4.37	8.52
	4	0.04	0.27	-18.74	1.93	20.17	4.15	3.67	7.82	-18.70	2.01	20.16	4.15	3.79	7.94
	8	0.04	0.27	-17.70	1.93	20.17	4.15	4.71	8.86	-17.82	2.01	20.16	4.15	4.66	8.81

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 3, 2024 March 23, 2024
Temperature / Humidity 22 deg. C / 38 % RH 23 deg. C / 40 % RH
Engineer Makoto Hosaka Yosuke Murakami
Mode Tx 11ax-20(OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5180	37	1.72	1.60	3.31	5.20	11.00	5.80	4.46	4.15	8.61	9.35	17.00	7.65
	38	1.71	1.61	3.33	5.22	11.00	5.78	4.45	4.20	8.65	9.37	17.00	7.63
	40	1.80	1.72	3.52	5.46	11.00	5.54	4.68	4.47	9.15	9.61	17.00	7.39
5220	37	1.73	1.61	3.34	5.24	11.00	5.76	4.49	4.19	8.68	9.39	17.00	7.61
	38	1.54	1.55	3.09	4.90	11.00	6.10	4.00	4.02	8.03	9.05	17.00	7.95
	40	1.64	1.71	3.35	5.26	11.00	5.74	4.27	4.45	8.72	9.41	17.00	7.59
5240	37	1.89	1.72	3.61	5.58	11.00	5.42	4.92	4.48	9.40	9.73	17.00	7.27
	38	1.81	1.67	3.48	5.42	11.00	5.58	4.70	4.35	9.05	9.57	17.00	7.43
	40	1.84	1.68	3.52	5.46	11.00	5.54	4.79	4.36	9.15	9.61	17.00	7.39
5260	37	3.90	3.59	7.50	8.75	11.00	2.25	10.14	9.35	19.49	12.90	17.00	4.10
	38	3.67	3.85	7.52	8.76	11.00	2.24	9.53	10.01	19.54	12.91	17.00	4.09
	40	3.77	3.54	7.31	8.64	11.00	2.36	9.79	9.21	19.00	12.79	17.00	4.21
5300	37	3.84	3.40	7.25	8.60	11.00	2.40	10.00	8.84	18.84	12.75	17.00	4.25
	38	3.86	3.31	7.17	8.55	11.00	2.45	10.04	8.60	18.64	12.70	17.00	4.30
	40	3.70	3.53	7.23	8.59	11.00	2.41	9.63	9.17	18.80	12.74	17.00	4.26
5320	37	3.73	3.42	7.15	8.54	11.00	2.46	9.69	8.89	18.58	12.69	17.00	4.31
	38	3.55	3.37	6.92	8.40	11.00	2.60	9.24	8.76	18.00	12.55	17.00	4.45
	40	3.73	3.61	7.34	8.65	11.00	2.35	9.69	9.38	19.07	12.80	17.00	4.20

				5G_CH0				5G_CH1							
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD	Cable	Atten.	Directional	PSD Result	
								Cond.	e.i.r.p.	Reading	Loss	Loss	Gain	Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	37	0.08	-	-19.82	1.91	20.17	4.15	2.35	6.50	-20.18	1.96	20.17	4.15	2.03	6.18
	38	0.08	-	-19.83	1.91	20.17	4.15	2.34	6.49	-20.13	1.96	20.17	4.15	2.08	6.23
	40	0.08	-	-19.61	1.91	20.17	4.15	2.55	6.70	-19.86	1.96	20.17	4.15	2.35	6.50
5220	37	0.08	-	-19.81	1.93	20.17	4.15	2.37	6.52	-20.17	1.99	20.17	4.15	2.08	6.23
	38	0.08	-	-20.31	1.93	20.17	4.15	1.88	6.03	-20.34	1.99	20.17	4.15	1.90	6.05
	40	0.08	-	-20.03	1.93	20.17	4.15	2.15	6.30	-19.91	1.99	20.17	4.15	2.33	6.48
5240	37	0.08	-	-19.42	1.94	20.17	4.15	2.77	6.92	-19.88	1.99	20.17	4.15	2.36	6.51
	38	0.08	-	-19.61	1.94	20.17	4.15	2.57	6.72	-20.01	1.99	20.17	4.15	2.24	6.39
	40	0.08	-	-19.53	1.94	20.17	4.15	2.65	6.80	-19.99	1.99	20.17	4.15	2.25	6.40
5260	37	0.08	-	-16.28	1.95	20.17	4.15	5.91	10.06	-16.70	2.00	20.17	4.15	5.56	9.71
	38	0.08	-	-16.55	1.95	20.17	4.15	5.64	9.79	-16.40	2.00	20.17	4.15	5.85	10.00
	40	0.08	-	-16.44	1.95	20.17	4.15	5.76	9.91	-16.76	2.00	20.17	4.15	5.49	9.64
5300	37	0.08	-	-16.35	1.95	20.17	4.15	5.85	10.00	-16.94	2.00	20.17	4.15	5.32	9.47
	38	0.08	-	-16.33	1.95	20.17	4.15	5.87	10.02	-17.06	2.00	20.17	4.15	5.19	9.34
	40	0.08	-	-16.51	1.95	20.17	4.15	5.69	9.84	-16.78	2.00	20.17	4.15	5.47	9.62
5320	37	0.08	-	-16.48	1.95	20.17	4.15	5.71	9.86	-16.91	2.00	20.17	4.15	5.34	9.49
	38	0.08	-	-16.69	1.95	20.17	4.15	5.50	9.65	-16.98	2.00	20.17	4.15	5.28	9.43
	40	0.08	-	-16.48	1.95	20.17	4.15	5.71	9.86	-16.68	2.00	20.17	4.15	5.57	9.72

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 3, 2024 March 23, 2024
Temperature / Humidity 22 deg. C / 38 % RH 23 deg. C / 40 % RH
Engineer Makoto Hosaka Yosuke Murakami
Mode Tx 11ax-20(OFDMA)(CDD) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5500	37	3.18	3.46	6.64	8.22	11.00	2.78	8.26	9.00	17.26	12.37	17.00	4.63		
	38	2.95	3.48	6.43	8.08	11.00	2.92	7.67	9.05	16.72	12.23	17.00	4.77		
	40	3.13	3.54	6.67	8.24	11.00	2.76	8.14	9.19	17.33	12.39	17.00	4.61		
5580	37	3.26	3.79	7.05	8.48	11.00	2.52	8.48	9.85	18.33	12.63	17.00	4.37		
	38	2.99	3.56	6.55	8.16	11.00	2.84	7.78	9.25	17.03	12.31	17.00	4.69		
	40	3.26	3.76	7.02	8.46	11.00	2.54	8.49	9.77	18.25	12.61	17.00	4.39		
5700	37	3.04	2.86	5.90	7.71	11.00	3.29	7.91	7.43	15.34	11.86	17.00	5.14		
	38	3.17	2.91	6.09	7.84	11.00	3.16	8.25	7.57	15.82	11.99	17.00	5.01		
	40	3.03	2.94	5.97	7.76	11.00	3.24	7.88	7.63	15.52	11.91	17.00	5.09		
5720	37	2.88	2.77	5.65	7.52	11.00	3.48	7.49	7.21	14.70	11.67	17.00	5.33		
	38	2.72	2.94	5.66	7.53	11.00	3.47	7.08	7.65	14.72	11.68	17.00	5.32		
	40	2.82	3.39	6.21	7.93	11.00	3.07	7.34	8.80	16.15	12.08	17.00	4.92		
5745	37	1.81	1.69	3.50	5.44	30.00	24.56	4.70	4.39	9.09	9.59	36.00	26.41		
	38	1.45	1.72	3.16	5.00	30.00	25.00	3.76	4.46	8.22	9.15	36.00	26.85		
	40	1.64	1.69	3.32	5.21	30.00	24.79	4.25	4.38	8.64	9.36	36.00	26.64		
5785	37	1.84	1.96	3.80	5.80	30.00	24.20	4.79	5.10	9.88	9.95	36.00	26.05		
	38	1.74	1.91	3.65	5.62	30.00	24.38	4.53	4.97	9.49	9.77	36.00	26.23		
	40	1.82	2.01	3.83	5.83	30.00	24.17	4.72	5.23	9.95	9.98	36.00	26.02		
5825	37	1.64	1.75	3.39	5.30	30.00	24.70	4.26	4.55	8.81	9.45	36.00	26.55		
	38	1.51	1.68	3.19	5.04	30.00	24.96	3.93	4.38	8.30	9.19	36.00	26.81		
	40	1.65	1.81	3.46	5.40	30.00	24.60	4.29	4.72	9.01	9.55	36.00	26.45		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0					5G_CH1					PSD Result	
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5500	37	0.08	-	-17.17	1.94	20.16	4.15	5.02	9.17	-16.88	2.03	20.16	4.15	5.39	9.54
	38	0.08	-	-17.49	1.94	20.16	4.15	4.70	8.85	-16.86	2.03	20.16	4.15	5.42	9.57
	40	0.08	-	-17.23	1.94	20.16	4.15	4.96	9.11	-16.79	2.03	20.16	4.15	5.48	9.63
5580	37	0.08	-	-17.07	1.96	20.17	4.15	5.13	9.28	-16.49	2.03	20.16	4.15	5.78	9.93
	38	0.08	-	-17.44	1.96	20.17	4.15	4.76	8.91	-16.77	2.03	20.16	4.15	5.51	9.66
	40	0.08	-	-17.06	1.96	20.17	4.15	5.14	9.29	-16.53	2.03	20.16	4.15	5.75	9.90
5700	37	0.08	-	-17.33	1.91	20.17	4.15	4.83	8.98	-17.66	1.98	20.16	4.15	4.56	8.71
	38	0.08	-	-17.14	1.91	20.17	4.15	5.02	9.17	-17.58	1.98	20.16	4.15	4.64	8.79
	40	0.08	-	-17.34	1.91	20.17	4.15	4.82	8.97	-17.55	1.98	20.16	4.15	4.68	8.83
5720	37	0.08	-	-17.56	1.91	20.17	4.15	4.60	8.75	-17.79	1.98	20.16	4.15	4.43	8.58
	38	0.08	-	-17.81	1.91	20.17	4.15	4.35	8.50	-17.54	1.98	20.16	4.15	4.68	8.83
	40	0.08	-	-17.65	1.91	20.17	4.15	4.51	8.66	-16.93	1.98	20.16	4.15	5.30	9.45
5745	37	0.08	0.27	-19.88	1.93	20.17	4.15	2.57	6.72	-20.23	2.00	20.16	4.15	2.28	6.43
	38	0.08	0.27	-20.85	1.93	20.17	4.15	1.60	5.75	-20.17	2.00	20.16	4.15	2.34	6.49
	40	0.08	0.27	-20.31	1.93	20.17	4.15	2.14	6.29	-20.25	2.00	20.16	4.15	2.27	6.42
5785	37	0.08	0.27	-19.81	1.94	20.17	4.15	2.65	6.80	-19.58	1.99	20.16	4.15	2.92	7.07
	38	0.08	0.27	-20.05	1.94	20.17	4.15	2.41	6.56	-19.69	1.99	20.16	4.15	2.81	6.96
	40	0.08	0.27	-19.87	1.94	20.17	4.15	2.59	6.74	-19.47	1.99	20.16	4.15	3.04	7.19
5825	37	0.08	0.27	-20.30	1.93	20.17	4.15	2.15	6.30	-20.09	2.01	20.16	4.15	2.43	6.58
	38	0.08	0.27	-20.66	1.93	20.17	4.15	1.79	5.94	-20.26	2.01	20.16	4.15	2.26	6.41
	40	0.08	0.27	-20.28	1.93	20.17	4.15	2.17	6.32	-19.94	2.01	20.16	4.15	2.59	6.74

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 3, 2024
Temperature / Humidity 22 deg. C / 38 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-20(OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5180	53	1.93	1.69	3.62	5.59	11.00	5.41		5.03	4.38	9.41	9.74	17.00	7.26	
	54	1.74	1.74	3.48	5.41	11.00	5.59		4.52	4.52	9.04	9.56	17.00	7.44	
5220	53	1.89	1.88	3.77	5.76	11.00	5.24		4.90	4.90	9.80	9.91	17.00	7.09	
	54	1.80	1.78	3.59	5.55	11.00	5.45		4.69	4.64	9.32	9.70	17.00	7.30	
5240	53	1.83	1.82	3.65	5.62	11.00	5.38		4.76	4.73	9.49	9.77	17.00	7.23	
	54	1.82	1.81	3.63	5.60	11.00	5.40		4.74	4.70	9.44	9.75	17.00	7.25	
5260	53	1.55	1.56	3.11	4.93	11.00	6.07		4.04	4.06	8.10	9.08	17.00	7.92	
	54	1.56	1.61	3.17	5.01	11.00	5.99		4.05	4.18	8.23	9.16	17.00	7.84	
5300	53	1.79	1.49	3.28	5.16	11.00	5.84		4.66	3.88	8.54	9.31	17.00	7.69	
	54	1.71	1.68	3.39	5.30	11.00	5.70		4.44	4.37	8.82	9.45	17.00	7.55	
5320	53	1.86	1.47	3.33	5.22	11.00	5.78		4.83	3.83	8.66	9.37	17.00	7.63	
	54	1.72	1.47	3.19	5.04	11.00	5.96		4.47	3.82	8.29	9.19	17.00	7.81	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0					5G_CH1					PSD Result	
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	53	0.17	-	-19.39	1.91	20.17	4.15	2.86	7.01	-20.03	1.96	20.17	4.15	2.27	6.42
	54	0.17	-	-19.86	1.91	20.17	4.15	2.40	6.55	-19.90	1.96	20.17	4.15	2.40	6.55
5220	53	0.17	-	-19.52	1.93	20.17	4.15	2.75	6.90	-19.58	1.99	20.17	4.15	2.75	6.90
	54	0.17	-	-19.72	1.93	20.17	4.15	2.56	6.71	-19.82	1.99	20.17	4.15	2.51	6.66
5240	53	0.17	-	-19.64	1.94	20.17	4.15	2.63	6.78	-19.73	1.99	20.17	4.15	2.60	6.75
	54	0.17	-	-19.67	1.94	20.17	4.15	2.61	6.76	-19.76	1.99	20.17	4.15	2.57	6.72
5260	53	0.17	-	-20.37	1.95	20.17	4.15	1.91	6.06	-20.41	2.00	20.17	4.15	1.94	6.09
	54	0.17	-	-20.36	1.95	20.17	4.15	1.93	6.08	-20.28	2.00	20.17	4.15	2.06	6.21
5300	53	0.17	-	-19.75	1.95	20.17	4.15	2.54	6.69	-20.61	2.00	20.17	4.15	1.73	5.88
	54	0.17	-	-19.96	1.95	20.17	4.15	2.33	6.48	-20.09	2.00	20.17	4.15	2.26	6.41
5320	53	0.17	-	-19.60	1.95	20.17	4.15	2.69	6.84	-20.66	2.00	20.17	4.15	1.68	5.83
	54	0.17	-	-19.93	1.95	20.17	4.15	2.35	6.50	-20.67	2.00	20.17	4.15	1.67	5.82

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 3, 2024 March 18, 2024
Temperature / Humidity 22 deg. C / 38 % RH 23 deg. C / 38 % RH
Engineer Makoto Hosaka Yuta Shiba
Mode Tx 11ax-20(OFDMA)(CDD) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5500	53	1.59	1.71	3.29	5.18	11.00	5.82	4.12	4.44	8.56	9.33	17.00	7.67		
	54	1.60	1.68	3.28	5.16	11.00	5.84	4.17	4.36	8.53	9.31	17.00	7.69		
5580	53	1.64	1.76	3.40	5.31	11.00	5.69	4.27	4.57	8.83	9.46	17.00	7.54		
	54	1.52	1.77	3.29	5.17	11.00	5.83	3.95	4.61	8.56	9.32	17.00	7.68		
5700	53	1.48	1.46	2.94	4.69	11.00	6.31	3.85	3.81	7.65	8.84	17.00	8.16		
	54	1.40	1.66	3.06	4.85	11.00	6.15	3.63	4.32	7.95	9.00	17.00	8.00		
5720	53	1.42	1.51	2.94	4.68	11.00	6.32	3.70	3.94	7.64	8.83	17.00	8.17		
	54	1.38	1.49	2.87	4.58	11.00	6.42	3.59	3.87	7.46	8.73	17.00	8.27		
5745	53	0.80	0.88	1.67	2.23	30.00	27.77	2.07	2.28	4.35	6.38	36.00	29.72		
	54	0.82	0.83	1.65	2.19	30.00	27.81	2.14	2.16	4.30	6.34	36.00	29.66		
5785	53	0.95	0.97	1.93	2.85	30.00	27.15	2.48	2.53	5.01	7.00	36.00	29.00		
	54	0.97	0.93	1.89	2.77	30.00	27.23	2.52	2.41	4.92	6.92	36.00	29.08		
5825	53	0.87	0.88	1.75	2.43	30.00	27.57	2.27	2.28	4.55	6.58	36.00	29.42		
	54	0.84	0.88	1.72	2.36	30.00	27.64	2.18	2.30	4.48	6.51	36.00	29.49		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result			
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dB]	[dB]	[dBi]
5500	53	0.17	-	-20.27	1.94	20.16	4.15	2.00	6.15	-20.04	2.03	20.16	4.15	2.32	6.47
	54	0.17	-	-20.22	1.94	20.16	4.15	2.05	6.20	-20.12	2.03	20.16	4.15	2.25	6.40
5580	53	0.17	-	-20.14	1.96	20.17	4.15	2.15	6.30	-19.92	2.03	20.16	4.15	2.45	6.60
	54	0.17	-	-20.48	1.96	20.17	4.15	1.81	5.96	-19.88	2.03	20.16	4.15	2.49	6.64
5700	53	0.17	-	-20.55	1.91	20.17	4.15	1.70	5.85	-20.66	1.98	20.16	4.15	1.66	5.81
	54	0.17	-	-20.80	1.91	20.17	4.15	1.45	5.60	-20.10	1.98	20.16	4.15	2.21	6.36
5720	53	0.17	-	-20.72	1.91	20.17	4.15	1.53	5.68	-20.51	1.98	20.16	4.15	1.80	5.95
	54	0.17	-	-20.85	1.91	20.17	4.15	1.40	5.55	-20.58	1.98	20.16	4.15	1.73	5.88
5745	53	0.17	0.27	-23.54	1.93	20.17	4.15	-1.00	3.15	-23.17	2.00	20.16	4.15	-0.57	3.58
	54	0.17	0.27	-23.39	1.93	20.17	4.15	-0.85	3.30	-23.40	2.00	20.16	4.15	-0.80	3.35
5785	53	0.17	0.27	-22.76	1.94	20.17	4.15	-0.21	3.94	-22.71	1.99	20.16	4.15	-0.11	4.04
	54	0.17	0.27	-22.69	1.94	20.17	4.15	-0.14	4.01	-22.93	1.99	20.16	4.15	-0.34	3.81
5825	53	0.17	0.27	-23.14	1.93	20.17	4.15	-0.60	3.55	-23.19	2.01	20.16	4.15	-0.57	3.58
	54	0.17	0.27	-23.31	1.93	20.17	4.15	-0.77	3.38	-23.16	2.01	20.16	4.15	-0.54	3.61

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 23, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20(OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5180	61	0.60	0.82	1.42	1.51	11.00	9.49		1.56	2.12	3.68	5.66	17.00	11.34	
5220	61	0.62	0.78	1.39	1.44	11.00	9.56		1.60	2.02	3.62	5.59	17.00	11.41	
5240	61	0.67	0.82	1.49	1.72	11.00	9.28		1.74	2.13	3.87	5.87	17.00	11.13	
5260	61	0.62	0.85	1.46	1.66	11.00	9.34		1.61	2.20	3.81	5.81	17.00	11.19	
5300	61	0.73	0.84	1.56	1.94	11.00	9.06		1.89	2.18	4.07	6.09	17.00	10.91	
5320	61	0.73	0.81	1.54	1.87	11.00	9.13		1.90	2.11	4.00	6.02	17.00	10.98	

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD	Cable	Atten.	Directional	PSD Result	
								Cond.	e.i.r.p.	Reading	Loss	Loss	Gain	Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	61	0.11	-	-24.40	1.91	20.17	4.15	-2.21	1.94	-23.13	1.96	20.17	4.15	-0.89	3.26
5220	61	0.11	-	-24.32	1.93	20.17	4.15	-2.11	2.04	-23.37	1.99	20.17	4.15	-1.10	3.05
5240	61	0.11	-	-23.96	1.94	20.17	4.15	-1.74	2.41	-23.14	1.99	20.17	4.15	-0.87	3.28
5260	61	0.11	-	-24.31	1.95	20.17	4.15	-2.08	2.07	-23.01	2.00	20.17	4.15	-0.73	3.42
5300	61	0.11	-	-23.62	1.95	20.17	4.15	-1.40	2.75	-23.05	2.00	20.17	4.15	-0.76	3.39
5320	61	0.11	-	-23.59	1.95	20.17	4.15	-1.37	2.78	-23.20	2.00	20.17	4.15	-0.92	3.23

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss+ Duty Factor+ RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 23, 2024
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-20(OFDMA)(CDD) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5500	61	0.72	0.97	1.69	2.29	11.00	8.71	1.88	2.53	4.40	6.44	17.00	10.56		
5580	61	0.76	0.93	1.70	2.30	11.00	8.70	1.98	2.43	4.41	6.45	17.00	10.55		
5700	61	0.68	0.82	1.50	1.77	11.00	9.23	1.77	2.14	3.91	5.92	17.00	11.08		
5720	61	0.70	0.80	1.50	1.76	11.00	9.24	1.82	2.08	3.90	5.91	17.00	11.09		
5745	61	0.35	0.43	0.78	-1.06	30.00	31.06	0.91	1.13	2.04	3.09	36.00	32.91		
5785	61	0.38	0.44	0.83	-0.82	30.00	30.82	1.00	1.15	2.15	3.33	36.00	32.67		
5825	61	0.36	0.46	0.82	-0.89	30.00	30.89	0.93	1.19	2.12	3.26	36.00	32.74		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0					5G_CH1					PSD Result	
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Cond.	PSD e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Cond.	PSD e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5500	61	0.11	-	-23.63	1.94	20.16	4.15	-1.42	2.73	-22.43	2.03	20.16	4.15	-0.12	4.03
5580	61	0.11	-	-23.41	1.96	20.17	4.15	-1.18	2.97	-22.60	2.03	20.16	4.15	-0.29	3.86
5700	61	0.11	-	-23.85	1.91	20.17	4.15	-1.66	2.49	-23.11	1.98	20.16	4.15	-0.85	3.30
5720	61	0.11	-	-23.74	1.91	20.17	4.15	-1.55	2.60	-23.22	1.98	20.16	4.15	-0.97	3.18
5745	61	0.11	0.27	-27.04	1.93	20.17	4.15	-4.56	-0.41	-26.17	2.00	20.16	4.15	-3.63	0.52
5785	61	0.11	0.27	-26.64	1.94	20.17	4.15	-4.15	0.00	-26.07	1.99	20.16	4.15	-3.53	0.62
5825	61	0.11	0.27	-26.94	1.93	20.17	4.15	-4.46	-0.31	-25.96	2.01	20.16	4.15	-3.40	0.75

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10\log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 17, 2024
Temperature / Humidity 24 deg. C / 32 % RH
Engineer Makoto Hosaka
Mode Tx 11n-40 CDD

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]				1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]			
5190	0.53	0.49	1.02	0.08	11.00	10.92	1.37	1.27	2.65	4.23	17.00	12.77
5230	0.49	0.46	0.95	-0.22	11.00	11.22	1.28	1.19	2.47	3.93	17.00	13.07
5270	0.50	0.46	0.96	-0.16	11.00	11.16	1.31	1.20	2.51	3.99	17.00	13.01
5310	0.52	0.45	0.97	-0.14	11.00	11.14	1.35	1.17	2.52	4.01	17.00	12.99
5510	0.46	0.49	0.96	-0.19	11.00	11.19	1.21	1.28	2.49	3.96	17.00	13.04
5550	0.50	0.48	0.98	-0.11	11.00	11.11	1.29	1.24	2.54	4.04	17.00	12.96
5670	0.46	0.50	0.95	-0.20	11.00	11.20	1.19	1.29	2.48	3.95	17.00	13.05
5710	0.43	0.45	0.88	-0.56	11.00	11.56	1.12	1.17	2.28	3.59	17.00	13.41
5755	0.22	0.24	0.46	-3.41	30.00	33.41	0.57	0.61	1.19	0.74	36.00	35.26
5795	0.24	0.27	0.51	-2.96	30.00	32.96	0.63	0.69	1.32	1.19	36.00	34.81

5G_CH0								5G_CH1						
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]
5190	0.01	0.00	-15.40	2.40	10.22	4.15	-2.77	1.38	-15.45	2.41	9.93	4.15	-3.10	1.05
5230	0.01	0.00	-15.70	2.40	10.22	4.15	-3.07	1.08	-15.74	2.41	9.93	4.15	-3.39	0.76
5270	0.01	0.00	-15.65	2.43	10.22	4.15	-2.99	1.16	-15.75	2.46	9.93	4.15	-3.35	0.80
5310	0.01	0.00	-15.51	2.43	10.22	4.15	-2.85	1.30	-15.88	2.46	9.93	4.15	-3.48	0.67
5510	0.01	0.00	-16.01	2.45	10.22	4.15	-3.33	0.82	-15.52	2.50	9.94	4.15	-3.07	1.08
5550	0.01	0.00	-15.72	2.45	10.22	4.15	-3.04	1.11	-15.65	2.50	9.94	4.15	-3.20	0.95
5670	0.01	0.00	-16.07	2.45	10.22	4.15	-3.39	0.76	-15.49	2.50	9.94	4.15	-3.04	1.11
5710	0.01	0.00	-16.32	2.43	10.22	4.15	-3.66	0.49	-15.89	2.46	9.94	4.15	-3.48	0.67
5755	0.01	0.27	-19.51	2.43	10.22	4.15	-6.58	-2.43	-18.95	2.46	9.94	4.15	-6.27	-2.12
5795	0.01	0.27	-19.14	2.46	10.22	4.15	-6.18	-2.03	-18.48	2.50	9.94	4.15	-5.76	-1.61

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log$ (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Directional Gain = Antenna Gain + Arry Gain, Arry Gain = $10\log$ (Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 17, 2024
Temperature / Humidity 24 deg. C / 32 % RH
Engineer Makoto Hosaka
Mode Tx 11ac-40 CDD

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]				1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]			
5190	0.52	0.47	0.99	-0.04	11.00	11.04	1.34	1.23	2.57	4.11	17.00	12.89
5230	0.49	0.46	0.95	-0.22	11.00	11.22	1.28	1.19	2.47	3.93	17.00	13.07
5270	0.50	0.45	0.95	-0.23	11.00	11.23	1.30	1.16	2.46	3.92	17.00	13.08
5310	0.52	0.44	0.96	-0.16	11.00	11.16	1.35	1.15	2.51	3.99	17.00	13.01
5610	0.46	0.48	0.94	-0.25	11.00	11.25	1.20	1.26	2.46	3.90	17.00	13.10
5550	0.48	0.47	0.95	-0.23	11.00	11.23	1.24	1.23	2.47	3.92	17.00	13.08
5670	0.46	0.47	0.93	-0.33	11.00	11.33	1.20	1.21	2.41	3.82	17.00	13.18
5710	0.41	0.44	0.85	-0.68	11.00	11.68	1.07	1.15	2.22	3.47	17.00	13.53
5755	0.21	0.22	0.42	-3.74	30.00	33.74	0.53	0.56	1.10	0.41	36.00	35.59
5795	0.24	0.24	0.47	-3.25	30.00	33.25	0.61	0.62	1.23	0.90	36.00	35.10

5G_CH0								5G_CH1						
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]
5190	0.01	0.00	-15.50	2.40	10.22	4.15	-2.87	1.28	-15.59	2.41	9.93	4.15	-3.24	0.91
5230	0.01	0.00	-15.72	2.40	10.22	4.15	-3.09	1.06	-15.74	2.41	9.93	4.15	-3.39	0.76
5270	0.01	0.00	-15.67	2.43	10.22	4.15	-3.01	1.15	-15.90	2.46	9.93	4.15	-3.50	0.65
5310	0.01	0.00	-15.50	2.43	10.22	4.15	-2.84	1.31	-15.93	2.46	9.93	4.15	-3.53	0.62
5610	0.01	0.00	-16.04	2.45	10.22	4.15	-3.36	0.79	-15.61	2.50	9.94	4.15	-3.16	0.99
5550	0.01	0.00	-15.91	2.45	10.22	4.15	-3.23	0.92	-15.70	2.50	9.94	4.15	-3.25	0.90
5670	0.01	0.00	-16.05	2.45	10.22	4.15	-3.37	0.78	-15.77	2.50	9.94	4.15	-3.32	0.83
5710	0.01	0.00	-16.50	2.43	10.22	4.15	-3.84	0.31	-15.96	2.46	9.94	4.15	-3.55	0.60
5755	0.01	0.27	-19.80	2.43	10.22	4.15	-6.87	-2.72	-19.32	2.46	9.94	4.15	-6.64	-2.49
5795	0.01	0.27	-19.24	2.46	10.22	4.15	-6.28	-2.13	-18.97	2.50	9.94	4.15	-6.25	-2.10

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain
Directional Gain = Antenna Gain + Arry Gain, Arry Gain = $10\log(\text{Number of transmit antennas} / \text{Number of spatial streams})$
Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 2, 2024
Temperature / Humidity 22 deg. C / 26 % RH
Engineer Iku Ikudome
Mode Tx 11ax-40 CDD

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1	2	Sum				1	2	Sum			
[mW/MHz]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5190	0.47	0.41	0.88	-0.57	11.00	11.57	1.21	1.07	2.28	3.58	17.00	13.42
5230	0.46	0.41	0.87	-0.59	11.00	11.59	1.20	1.07	2.27	3.56	17.00	13.44
5270	0.47	0.44	0.92	-0.38	11.00	11.38	1.23	1.15	2.38	3.77	17.00	13.23
5310	0.55	0.44	0.99	-0.02	11.00	11.02	1.43	1.15	2.59	4.13	17.00	12.87
5610	0.47	0.48	0.95	-0.23	11.00	11.23	1.22	1.25	2.46	3.92	17.00	13.08
5550	0.47	0.46	0.93	-0.31	11.00	11.31	1.22	1.20	2.42	3.84	17.00	13.16
5670	0.43	0.44	0.87	-0.60	11.00	11.60	1.12	1.14	2.26	3.55	17.00	13.45
5710	0.41	0.45	0.86	-0.65	11.00	11.65	1.07	1.17	2.24	3.50	17.00	13.50
5755	0.21	0.21	0.43	-3.71	30.00	33.71	0.55	0.55	1.11	0.44	36.00	35.56
5795	0.23	0.24	0.47	-3.26	30.00	33.26	0.59	0.63	1.23	0.89	36.00	35.11

5G_CH0										5G_CH1							
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	e.i.r.p.			
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]			
5190	0.01	0.00	-15.95	2.40	10.22	4.15	-3.32	0.83	-16.21	2.41	9.93	4.15	-3.86	0.29			
5230	0.01	0.00	-15.98	2.40	10.22	4.15	-3.35	0.80	-16.21	2.41	9.93	4.15	-3.86	0.29			
5270	0.01	0.00	-15.90	2.43	10.22	4.15	-3.24	0.91	-15.94	2.46	9.93	4.15	-3.54	0.61			
5310	0.01	0.00	-15.25	2.43	10.22	4.15	-2.59	1.56	-15.93	2.46	9.93	4.15	-3.53	0.62			
5610	0.01	0.00	-15.98	2.45	10.22	4.15	-3.30	0.85	-15.64	2.50	9.94	4.15	-3.19	0.96			
5550	0.01	0.00	-15.96	2.45	10.22	4.15	-3.28	0.87	-15.81	2.50	9.94	4.15	-3.36	0.79			
5670	0.01	0.00	-16.32	2.45	10.22	4.15	-3.64	0.51	-16.03	2.50	9.94	4.15	-3.58	0.57			
5710	0.01	0.00	-16.51	2.43	10.22	4.15	-3.85	0.30	-15.88	2.46	9.94	4.15	-3.47	0.68			
5755	0.01	0.27	-19.64	2.43	10.22	4.15	-6.71	-2.56	-19.40	2.46	9.94	4.15	-6.72	-2.57			
5795	0.01	0.27	-19.38	2.46	10.22	4.15	-6.42	-2.27	-18.85	2.50	9.94	4.15	-6.13	-1.98			

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log$ (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Directional Gain = Antenna Gain + Arry Gain, Arry Gain = $10\log$ (Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 26, 2024
Temperature / Humidity 23 deg. C / 39 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5190	0	1.68	1.54	3.22	5.08	11.00	5.92	4.38	3.99	8.38	9.23	17.00	7.77		
	8	1.49	1.43	2.92	4.66	11.00	6.34	3.87	3.73	7.60	8.81	17.00	8.19		
	17	1.54	1.50	3.04	4.83	11.00	6.17	4.00	3.91	7.91	8.98	17.00	8.02		
5230	0	1.56	1.40	2.96	4.72	11.00	6.28	4.07	3.64	7.70	8.87	17.00	8.13		
	8	1.53	1.38	2.91	4.64	11.00	6.36	3.99	3.58	7.57	8.79	17.00	8.21		
	17	1.45	1.49	2.94	4.68	11.00	6.32	3.77	3.87	7.64	8.83	17.00	8.17		
5270	0	5.11	5.14	10.25	10.11	11.00	0.89	13.30	13.36	26.66	14.26	17.00	2.74		
	8	4.87	4.74	9.61	9.83	11.00	1.17	12.65	12.33	24.99	13.98	17.00	3.02		
	17	4.75	5.00	9.75	9.89	11.00	1.11	12.35	13.01	25.36	14.04	17.00	2.96		
5310	0	5.63	4.52	10.14	10.06	11.00	0.94	14.63	11.74	26.37	14.21	17.00	2.79		
	8	5.24	4.77	10.01	10.01	11.00	0.99	13.63	12.41	26.04	14.16	17.00	2.84		
	17	5.31	4.80	10.11	10.05	11.00	0.95	13.80	12.48	26.28	14.20	17.00	2.80		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result Cond.	PSD Result e.i.r.p.	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond.	PSD Result e.i.r.p.
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain							
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]							
5190	0	0.04	-	-19.86	1.91	20.17	4.15	2.27	6.42	-20.31	1.96	20.17	4.15	1.86	6.01			
	8	0.04	-	-20.40	1.91	20.17	4.15	1.72	5.87	-20.61	1.96	20.17	4.15	1.56	5.71			
	17	0.04	-	-20.25	1.91	20.17	4.15	1.88	6.03	-20.40	1.96	20.17	4.15	1.77	5.92			
5230	0	0.04	-	-20.20	1.94	20.17	4.15	1.94	6.09	-20.74	1.99	20.17	4.15	1.46	5.61			
	8	0.04	-	-20.28	1.94	20.17	4.15	1.86	6.01	-20.81	1.99	20.17	4.15	1.39	5.54			
	17	0.04	-	-20.53	1.94	20.17	4.15	1.61	5.76	-20.47	1.99	20.17	4.15	1.73	5.88			
5270	0	0.04	-	-15.07	1.95	20.17	4.15	7.09	11.24	-15.10	2.00	20.17	4.15	7.11	11.26			
	8	0.04	-	-15.28	1.95	20.17	4.15	6.87	11.02	-15.45	2.00	20.17	4.15	6.76	10.91			
	17	0.04	-	-15.39	1.95	20.17	4.15	6.77	10.92	-15.22	2.00	20.17	4.15	6.99	11.14			
5310	0	0.04	-	-14.65	1.95	20.17	4.15	7.50	11.65	-15.66	2.00	20.17	4.15	6.55	10.70			
	8	0.04	-	-14.96	1.95	20.17	4.15	7.19	11.34	-15.42	2.00	20.17	4.15	6.79	10.94			
	17	0.04	-	-14.91	1.95	20.17	4.15	7.25	11.40	-15.40	2.00	20.17	4.15	6.81	10.96			

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 26, 2024
Temperature / Humidity 23 deg. C / 39 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5510	0	5.64	5.64	11.27	10.52	11.00	0.48		14.65	14.66	29.31	14.67	17.00	2.33	
	8	5.48	5.63	11.11	10.46	11.00	0.54		14.25	14.63	28.88	14.61	17.00	2.39	
	17	5.66	5.89	11.55	10.63	11.00	0.37		14.72	15.32	30.04	14.78	17.00	2.22	
5550	0	5.60	5.77	11.36	10.55	11.00	0.45		14.55	14.99	29.54	14.70	17.00	2.30	
	8	5.59	5.40	11.00	10.41	11.00	0.59		14.54	14.05	28.59	14.56	17.00	2.44	
	17	5.97	6.17	12.15	10.85	11.00	0.15		15.53	16.06	31.59	15.00	17.00	2.00	
5670	0	5.79	5.20	10.99	10.41	11.00	0.59		15.06	13.52	28.58	14.56	17.00	2.44	
	8	5.57	5.40	10.97	10.40	11.00	0.60		14.48	14.05	28.53	14.55	17.00	2.45	
	17	5.64	6.07	11.71	10.69	11.00	0.31		14.67	15.78	30.45	14.84	17.00	2.16	
5710	0	5.10	5.31	10.41	10.17	11.00	0.83		13.27	13.80	27.07	14.32	17.00	2.68	
	8	5.14	4.99	10.13	10.06	11.00	0.94		13.36	12.98	26.33	14.21	17.00	2.79	
	17	5.23	5.45	10.68	10.29	11.00	0.71		13.60	14.17	27.77	14.44	17.00	2.56	
5755	0	2.71	2.72	5.42	7.34	30.00	22.66	7.04	7.06	7.06	14.11	11.49	36.00	24.51	
	8	2.61	2.61	5.23	7.18	30.00	22.82	6.80	6.80	6.80	13.59	11.33	36.00	24.67	
	17	2.59	2.94	5.54	7.43	30.00	22.57	6.75	7.65	7.65	14.40	11.58	36.00	24.42	
5795	0	2.86	2.77	5.64	7.51	30.00	22.49	7.44	7.21	7.21	14.65	11.66	36.00	24.34	
	8	2.70	2.81	5.51	7.41	30.00	22.59	7.01	7.31	7.31	14.32	11.56	36.00	24.44	
	17	2.92	3.09	6.01	7.79	30.00	22.21	7.59	8.02	8.02	15.62	11.94	36.00	24.06	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dB]	PSD Result	
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Cond.	PSD e.i.r.p.	PSD Reading	Cable Loss				Cond.	e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]				[dBm/MHz]	[dBm/MHz]
5510	0	0.04	-	-14.64	1.94	20.16	4.15	7.51	11.66	-14.72	2.03	20.16	4.15	7.51	11.66	
	8	0.04	-	-14.76	1.94	20.16	4.15	7.39	11.54	-14.73	2.03	20.16	4.15	7.50	11.65	
	17	0.04	-	-14.62	1.94	20.16	4.15	7.53	11.68	-14.53	2.03	20.16	4.15	7.70	11.85	
5550	0	0.04	-	-14.68	1.95	20.17	4.15	7.48	11.63	-14.63	2.03	20.16	4.15	7.61	11.76	
	8	0.04	-	-14.68	1.95	20.17	4.15	7.48	11.63	-14.91	2.03	20.16	4.15	7.33	11.48	
	17	0.04	-	-14.40	1.95	20.17	4.15	7.76	11.91	-14.33	2.03	20.16	4.15	7.91	12.06	
5670	0	0.04	-	-14.49	1.91	20.17	4.15	7.63	11.78	-15.02	1.98	20.16	4.15	7.16	11.31	
	8	0.04	-	-14.66	1.91	20.17	4.15	7.46	11.61	-14.85	1.98	20.16	4.15	7.33	11.48	
	17	0.04	-	-14.60	1.91	20.17	4.15	7.51	11.66	-14.35	1.98	20.16	4.15	7.83	11.98	
5710	0	0.04	-	-15.04	1.91	20.17	4.15	7.08	11.23	-14.93	1.98	20.16	4.15	7.25	11.40	
	8	0.04	-	-15.01	1.91	20.17	4.15	7.11	11.26	-15.20	1.98	20.16	4.15	6.98	11.13	
	17	0.04	-	-14.93	1.91	20.17	4.15	7.19	11.34	-14.82	1.98	20.16	4.15	7.36	11.51	
5755	0	0.04	0.27	-18.08	1.93	20.17	4.15	4.33	8.48	-18.13	2.00	20.16	4.15	4.34	8.49	
	8	0.04	0.27	-18.24	1.93	20.17	4.15	4.17	8.32	-18.30	2.00	20.16	4.15	4.17	8.32	
	17	0.04	0.27	-18.27	1.93	20.17	4.15	4.14	8.29	-17.79	2.00	20.16	4.15	4.69	8.84	
5795	0	0.04	0.27	-17.85	1.93	20.17	4.15	4.57	8.72	-18.05	2.01	20.16	4.15	4.43	8.58	
	8	0.04	0.27	-18.10	1.93	20.17	4.15	4.31	8.46	-17.99	2.01	20.16	4.15	4.49	8.64	
	17	0.04	0.27	-17.76	1.93	20.17	4.15	4.65	8.80	-17.59	2.01	20.16	4.15	4.89	9.04	

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 26, 2024
Temperature / Humidity 23 deg. C / 39 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5190	37	1.96	1.85	3.81	5.81	11.00	5.19	5.09	4.81	9.90	9.96	17.00	7.04		
	40	1.92	1.80	3.72	5.71	11.00	5.29	5.00	4.68	9.68	9.86	17.00	7.14		
	44	1.87	1.73	3.60	5.56	11.00	5.44	4.86	4.50	9.36	9.71	17.00	7.29		
5230	37	1.75	1.73	3.48	5.42	11.00	5.58	4.55	4.50	9.05	9.57	17.00	7.43		
	40	1.69	1.68	3.37	5.28	11.00	5.72	4.40	4.36	8.76	9.43	17.00	7.57		
	44	1.72	1.67	3.40	5.31	11.00	5.69	4.49	4.35	8.83	9.46	17.00	7.54		
5270	37	3.85	4.05	7.91	8.98	11.00	2.02	10.01	10.54	20.56	13.13	17.00	3.87		
	40	3.88	3.32	7.20	8.57	11.00	2.43	10.10	8.62	18.72	12.72	17.00	4.28		
	44	3.85	3.54	7.39	8.69	11.00	2.31	10.01	9.20	19.21	12.84	17.00	4.16		
5310	37	4.11	3.40	7.51	8.76	11.00	2.24	10.70	8.84	19.54	12.91	17.00	4.09		
	40	3.93	3.35	7.28	8.62	11.00	2.38	10.22	8.70	18.92	12.77	17.00	4.23		
	44	4.06	3.42	7.49	8.74	11.00	2.26	10.56	8.90	19.47	12.89	17.00	4.11		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0					5G_CH1					PSD Result	
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5190	37	0.08	-	-19.24	1.91	20.17	4.15	2.92	7.07	-19.54	1.96	20.17	4.15	2.67	6.82
	40	0.08	-	-19.33	1.91	20.17	4.15	2.84	6.99	-19.65	1.96	20.17	4.15	2.56	6.71
	44	0.08	-	-19.45	1.91	20.17	4.15	2.71	6.86	-19.83	1.96	20.17	4.15	2.38	6.53
5230	37	0.08	-	-19.75	1.94	20.17	4.15	2.43	6.58	-19.86	1.99	20.17	4.15	2.38	6.53
	40	0.08	-	-19.90	1.94	20.17	4.15	2.29	6.44	-20.00	1.99	20.17	4.15	2.24	6.39
	44	0.08	-	-19.82	1.94	20.17	4.15	2.37	6.52	-20.01	1.99	20.17	4.15	2.23	6.38
5270	37	0.08	-	-16.34	1.95	20.17	4.15	5.86	10.01	-16.17	2.00	20.17	4.15	6.08	10.23
	40	0.08	-	-16.30	1.95	20.17	4.15	5.89	10.04	-17.05	2.00	20.17	4.15	5.20	9.35
	44	0.08	-	-16.34	1.95	20.17	4.15	5.86	10.01	-16.76	2.00	20.17	4.15	5.49	9.64
5310	37	0.08	-	-16.05	1.95	20.17	4.15	6.14	10.29	-16.94	2.00	20.17	4.15	5.31	9.46
	40	0.08	-	-16.25	1.95	20.17	4.15	5.95	10.10	-17.01	2.00	20.17	4.15	5.25	9.40
	44	0.08	-	-16.11	1.95	20.17	4.15	6.09	10.24	-16.91	2.00	20.17	4.15	5.34	9.49

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 26, 2024
Temperature / Humidity 23 deg. C / 39 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]				
5510	37	3.64	3.53	7.17	8.56	11.00	2.44	9.46	9.18	18.64	12.71	17.00	4.29
	40	3.55	3.78	7.33	8.65	11.00	2.35	9.23	9.84	19.07	12.80	17.00	4.20
	44	3.82	4.07	7.90	8.97	11.00	2.03	9.94	10.60	20.53	13.12	17.00	3.88
5550	37	3.67	3.52	7.20	8.57	11.00	2.43	9.55	9.17	18.71	12.72	17.00	4.28
	40	3.72	3.53	7.25	8.60	11.00	2.40	9.68	9.17	18.85	12.75	17.00	4.25
	44	3.67	3.81	7.48	8.74	11.00	2.26	9.54	9.92	19.46	12.89	17.00	4.11
5670	37	3.52	3.84	7.36	8.67	11.00	2.33	9.14	9.99	19.13	12.82	17.00	4.18
	40	3.31	3.83	7.15	8.54	11.00	2.46	8.61	9.97	18.58	12.69	17.00	4.31
	44	3.67	3.68	7.35	8.66	11.00	2.34	9.53	9.57	19.11	12.81	17.00	4.19
5710	37	3.54	3.53	7.07	8.49	11.00	2.51	9.22	9.17	18.38	12.64	17.00	4.36
	40	3.28	3.31	6.59	8.19	11.00	2.81	8.52	8.61	17.13	12.34	17.00	4.66
	44	3.31	3.58	6.89	8.38	11.00	2.62	8.60	9.31	17.92	12.53	17.00	4.47
5755	37	1.79	1.70	3.49	5.43	30.00	24.57	4.66	4.42	9.09	9.58	36.00	26.42
	40	1.68	1.76	3.44	5.37	30.00	24.63	4.36	4.59	8.95	9.52	36.00	26.48
	44	1.72	2.06	3.78	5.77	30.00	24.23	4.48	5.35	9.82	9.92	36.00	26.08
5795	37	1.98	1.84	3.82	5.82	30.00	24.18	5.15	4.79	9.94	9.97	36.00	26.03
	40	1.78	1.71	3.48	5.42	30.00	24.58	4.62	4.43	9.06	9.57	36.00	26.43
	44	1.87	1.90	3.77	5.76	30.00	24.24	4.86	4.94	9.80	9.91	36.00	26.09

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5510	37	0.08	-	-16.58	1.94	20.16	4.15	5.61	9.76	-16.80	2.03	20.16	4.15	5.48	9.63
	40	0.08	-	-16.69	1.94	20.16	4.15	5.50	9.65	-16.50	2.03	20.16	4.15	5.78	9.93
	44	0.08	-	-16.36	1.94	20.16	4.15	5.82	9.97	-16.17	2.03	20.16	4.15	6.10	10.25
5550	37	0.08	-	-16.55	1.95	20.17	4.15	5.65	9.80	-16.81	2.03	20.16	4.15	5.47	9.62
	40	0.08	-	-16.49	1.95	20.17	4.15	5.71	9.86	-16.80	2.03	20.16	4.15	5.47	9.62
	44	0.08	-	-16.55	1.95	20.17	4.15	5.65	9.80	-16.46	2.03	20.16	4.15	5.81	9.96
5670	37	0.08	-	-16.70	1.91	20.17	4.15	5.46	9.61	-16.37	1.98	20.16	4.15	5.85	10.00
	40	0.08	-	-16.95	1.91	20.17	4.15	5.20	9.35	-16.39	1.98	20.16	4.15	5.84	9.99
	44	0.08	-	-16.51	1.91	20.17	4.15	5.64	9.79	-16.56	1.98	20.16	4.15	5.66	9.81
5710	37	0.08	-	-16.66	1.91	20.17	4.15	5.50	9.65	-16.75	1.98	20.16	4.15	5.47	9.62
	40	0.08	-	-17.00	1.91	20.17	4.15	5.16	9.31	-17.02	1.98	20.16	4.15	5.20	9.35
	44	0.08	-	-16.96	1.91	20.17	4.15	5.20	9.35	-16.68	1.98	20.16	4.15	5.54	9.69
5755	37	0.08	0.27	-19.91	1.93	20.17	4.15	2.54	6.69	-20.20	2.00	20.16	4.15	2.31	6.46
	40	0.08	0.27	-20.20	1.93	20.17	4.15	2.25	6.40	-20.05	2.00	20.16	4.15	2.47	6.62
	44	0.08	0.27	-20.09	1.93	20.17	4.15	2.36	6.51	-19.38	2.00	20.16	4.15	3.13	7.28
5795	37	0.08	0.27	-19.49	1.93	20.17	4.15	2.97	7.12	-19.87	2.01	20.16	4.15	2.65	6.80
	40	0.08	0.27	-19.95	1.93	20.17	4.15	2.50	6.65	-20.21	2.01	20.16	4.15	2.32	6.47
	44	0.08	0.27	-19.74	1.93	20.17	4.15	2.71	6.86	-19.74	2.01	20.16	4.15	2.79	6.94

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 28, 2024
Temperature / Humidity 23 deg. C / 26 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]				5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]			
5190	53	2.02	1.64	3.66	5.63	11.00	5.37	5.25	4.27	9.51	9.78	17.00	7.22
	54	1.98	1.66	3.64	5.61	11.00	5.39	5.14	4.31	9.45	9.76	17.00	7.24
	56	2.02	1.66	3.68	5.66	11.00	5.34	5.25	4.32	9.57	9.81	17.00	7.19
5230	53	1.87	1.80	3.67	5.65	11.00	5.35	4.87	4.69	9.55	9.80	17.00	7.20
	54	1.77	1.83	3.60	5.56	11.00	5.44	4.60	4.76	9.36	9.71	17.00	7.29
	56	1.94	1.66	3.60	5.57	11.00	5.43	5.04	4.33	9.37	9.72	17.00	7.28
5270	53	1.87	1.85	3.72	5.71	11.00	5.29	4.87	4.82	9.68	9.86	17.00	7.14
	54	1.83	1.67	3.50	5.44	11.00	5.56	4.76	4.33	9.09	9.59	17.00	7.41
	56	1.91	1.70	3.62	5.58	11.00	5.42	4.97	4.43	9.40	9.73	17.00	7.27
5310	53	2.08	1.74	3.82	5.82	11.00	5.18	5.41	4.51	9.92	9.97	17.00	7.03
	54	1.92	1.63	3.55	5.50	11.00	5.50	4.99	4.23	9.23	9.65	17.00	7.35
	56	1.97	1.69	3.67	5.64	11.00	5.36	5.13	4.41	9.54	9.79	17.00	7.21

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5190	53	0.01	-	-19.04	1.91	20.17	4.15	3.05	7.20	-19.99	1.96	20.17	4.15	2.15	6.30
	54	0.01	-	-19.13	1.91	20.17	4.15	2.96	7.11	-19.94	1.96	20.17	4.15	2.20	6.35
	56	0.01	-	-19.04	1.91	20.17	4.15	3.05	7.20	-19.94	1.96	20.17	4.15	2.20	6.35
5230	53	0.01	-	-19.39	1.94	20.17	4.15	2.72	6.87	-19.61	1.99	20.17	4.15	2.56	6.71
	54	0.01	-	-19.63	1.94	20.17	4.15	2.48	6.63	-19.55	1.99	20.17	4.15	2.62	6.77
	56	0.01	-	-19.24	1.94	20.17	4.15	2.88	7.03	-19.96	1.99	20.17	4.15	2.21	6.36
5270	53	0.01	-	-19.40	1.95	20.17	4.15	2.72	6.87	-19.50	2.00	20.17	4.15	2.68	6.83
	54	0.01	-	-19.50	1.95	20.17	4.15	2.63	6.78	-19.97	2.00	20.17	4.15	2.21	6.36
	56	0.01	-	-19.31	1.95	20.17	4.15	2.81	6.96	-19.87	2.00	20.17	4.15	2.32	6.47
5310	53	0.01	-	-18.94	1.95	20.17	4.15	3.18	7.33	-19.79	2.00	20.17	4.15	2.40	6.55
	54	0.01	-	-19.29	1.95	20.17	4.15	2.83	6.98	-20.06	2.00	20.17	4.15	2.12	6.27
	56	0.01	-	-19.17	1.95	20.17	4.15	2.95	7.10	-19.89	2.00	20.17	4.15	2.29	6.44

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 4, 2024
Temperature / Humidity 23 deg. C / 47 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40(OFDMA) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5510	53	2.02	2.13	4.15	6.18	11.00	4.82	5.25	5.53	10.78	10.33	17.00	6.67		
	54	2.00	1.96	3.96	5.97	11.00	5.03	5.20	5.09	10.28	10.12	17.00	6.88		
	56	2.01	2.18	4.19	6.22	11.00	4.78	5.23	5.67	10.90	10.37	17.00	6.63		
5550	53	1.98	2.03	4.01	6.03	11.00	4.97	5.15	5.27	10.41	10.18	17.00	6.82		
	54	1.95	1.98	3.94	5.95	11.00	5.05	5.08	5.15	10.23	10.10	17.00	6.90		
	56	2.04	2.13	4.17	6.20	11.00	4.80	5.29	5.54	10.83	10.35	17.00	6.65		
5670	53	2.03	1.89	3.93	5.94	11.00	5.06	5.29	4.93	10.22	10.09	17.00	6.91		
	54	1.87	1.87	3.74	5.73	11.00	5.27	4.86	4.87	9.73	9.88	17.00	7.12		
	56	1.95	1.90	3.85	5.86	11.00	5.14	5.07	4.95	10.02	10.01	17.00	6.99		
5710	53	1.81	1.90	3.71	5.69	11.00	5.31	4.70	4.94	9.64	9.84	17.00	7.16		
	54	1.89	1.80	3.70	5.68	11.00	5.32	4.92	4.69	9.61	9.83	17.00	7.17		
	56	1.87	1.92	3.80	5.79	11.00	5.21	4.87	5.00	9.87	9.94	17.00	7.06		
5755	53	0.92	0.93	1.85	2.68	30.00	27.32	2.40	2.42	4.82	6.83	36.00	29.17		
	54	0.92	0.93	1.85	2.67	30.00	27.33	2.39	2.42	4.81	6.82	36.00	29.18		
	56	0.96	0.98	1.94	2.87	30.00	27.13	2.50	2.54	5.04	7.02	36.00	28.98		
5795	53	0.95	0.98	1.94	2.87	30.00	27.13	2.47	2.56	5.03	7.02	36.00	28.98		
	54	0.93	0.93	1.86	2.70	30.00	27.30	2.41	2.43	4.84	6.85	36.00	29.15		
	56	0.93	0.97	1.90	2.79	30.00	27.21	2.42	2.52	4.94	6.94	36.00	29.06		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result	
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss			Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]			[dBi]	[dBm/MHz]	[dBm/MHz]
5510	53	0.01	-	-19.06	1.94	20.16	4.15	3.06	7.21	-18.93	2.03	20.16	4.15	3.28	7.43	
	54	0.01	-	-19.11	1.94	20.16	4.15	3.01	7.16	-19.29	2.03	20.16	4.15	2.92	7.07	
	56	0.01	-	-19.09	1.94	20.16	4.15	3.03	7.18	-18.82	2.03	20.16	4.15	3.39	7.54	
5550	53	0.01	-	-19.16	1.95	20.17	4.15	2.97	7.12	-19.14	2.03	20.16	4.15	3.07	7.22	
	54	0.01	-	-19.22	1.95	20.17	4.15	2.91	7.06	-19.24	2.03	20.16	4.15	2.97	7.12	
	56	0.01	-	-19.04	1.95	20.17	4.15	3.09	7.24	-18.92	2.03	20.16	4.15	3.28	7.43	
5670	53	0.01	-	-19.00	1.91	20.17	4.15	3.08	7.23	-19.38	1.98	20.16	4.15	2.77	6.92	
	54	0.01	-	-19.37	1.91	20.17	4.15	2.72	6.87	-19.43	1.98	20.16	4.15	2.72	6.87	
	56	0.01	-	-19.18	1.91	20.17	4.15	2.90	7.05	-19.36	1.98	20.16	4.15	2.79	6.94	
5710	53	0.01	-	-19.52	1.91	20.17	4.15	2.57	6.72	-19.37	1.98	20.16	4.15	2.79	6.94	
	54	0.01	-	-19.32	1.91	20.17	4.15	2.77	6.92	-19.59	1.98	20.16	4.15	2.56	6.71	
	56	0.01	-	-19.36	1.91	20.17	4.15	2.73	6.88	-19.31	1.98	20.16	4.15	2.84	6.99	
5755	53	0.01	0.27	-22.73	1.93	20.17	4.15	-0.35	3.80	-22.75	2.00	20.16	4.15	-0.31	3.84	
	54	0.01	0.27	-22.74	1.93	20.17	4.15	-0.36	3.79	-22.76	2.00	20.16	4.15	-0.31	3.84	
	56	0.01	0.27	-22.56	1.93	20.17	4.15	-0.18	3.97	-22.54	2.00	20.16	4.15	-0.10	4.05	
5795	53	0.01	0.27	-22.60	1.93	20.17	4.15	-0.22	3.93	-22.52	2.01	20.16	4.15	-0.07	4.08	
	54	0.01	0.27	-22.71	1.93	20.17	4.15	-0.33	3.82	-22.75	2.01	20.16	4.15	-0.29	3.86	
	56	0.01	0.27	-22.70	1.93	20.17	4.15	-0.31	3.84	-22.59	2.01	20.16	4.15	-0.13	4.02	

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 29, 2024
Temperature / Humidity 24 deg. C / 42 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5190	61	0.95	0.90	1.85	2.68	11.00	8.32	2.48	2.34	4.82	6.83	17.00	10.17
	62	0.94	0.85	1.78	2.51	11.00	8.49	2.43	2.20	4.64	6.66	17.00	10.34
5230	61	0.92	0.83	1.75	2.44	11.00	8.56	2.40	2.16	4.56	6.59	17.00	10.41
	62	0.90	0.80	1.70	2.31	11.00	8.69	2.34	2.08	4.42	6.46	17.00	10.54
5270	61	0.89	0.89	1.79	2.52	11.00	8.48	2.33	2.32	4.64	6.67	17.00	10.33
	62	0.87	0.83	1.69	2.28	11.00	8.72	2.25	2.15	4.40	6.43	17.00	10.57
5310	61	0.94	0.88	1.81	2.58	11.00	8.42	2.44	2.28	4.71	6.73	17.00	10.27
	62	0.89	0.81	1.70	2.30	11.00	8.70	2.32	2.10	4.42	6.45	17.00	10.55

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result			
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Cond.	PSD e.i.r.p.	PSD Cond.	PSD e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]
5190	61	0.03	-	-22.32	1.91	20.17	4.15	-0.20	3.95	-22.63	1.96	20.17	4.15	-0.47	3.68
	62	0.03	-	-22.40	1.91	20.17	4.15	-0.29	3.86	-22.88	1.96	20.17	4.15	-0.72	3.43
5230	61	0.03	-	-22.48	1.94	20.17	4.15	-0.34	3.81	-23.00	1.99	20.17	4.15	-0.81	3.34
	62	0.03	-	-22.58	1.94	20.17	4.15	-0.45	3.70	-23.17	1.99	20.17	4.15	-0.97	3.18
5270	61	0.03	-	-22.63	1.95	20.17	4.15	-0.48	3.67	-22.71	2.00	20.17	4.15	-0.50	3.65
	62	0.03	-	-22.76	1.95	20.17	4.15	-0.62	3.53	-23.04	2.00	20.17	4.15	-0.84	3.31
5310	61	0.03	-	-22.43	1.95	20.17	4.15	-0.28	3.87	-22.78	2.00	20.17	4.15	-0.58	3.57
	62	0.03	-	-22.64	1.95	20.17	4.15	-0.50	3.65	-23.13	2.00	20.17	4.15	-0.93	3.22

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 29, 2024
Temperature / Humidity 24 deg. C / 42 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5510	61	0.88	0.89	1.77	2.48	11.00	8.52	2.28	2.32	4.60	6.63	17.00	10.37		
	62	0.89	0.95	1.84	2.65	11.00	8.35	2.32	2.47	4.79	6.80	17.00	10.20		
5550	61	0.84	0.90	1.74	2.41	11.00	8.59	2.20	2.34	4.53	6.56	17.00	10.44		
	62	0.85	0.93	1.78	2.49	11.00	8.51	2.20	2.42	4.62	6.64	17.00	10.36		
5670	61	0.83	0.87	1.69	2.29	11.00	8.71	2.15	2.26	4.40	6.44	17.00	10.56		
	62	0.83	0.90	1.73	2.39	11.00	8.61	2.16	2.35	4.51	6.54	17.00	10.46		
5710	61	0.77	0.83	1.60	2.03	11.00	8.97	2.00	2.15	4.15	6.18	17.00	10.82		
	62	0.79	0.86	1.65	2.17	11.00	8.83	2.06	2.22	4.28	6.32	17.00	10.68		
5755	61	0.46	0.48	0.94	-0.29	30.00	30.29	1.18	1.25	2.43	3.86	36.00	32.14		
	62	0.43	0.49	0.92	-0.36	30.00	30.36	1.13	1.26	2.39	3.79	36.00	32.21		
5795	61	0.45	0.51	0.95	-0.20	30.00	30.20	1.16	1.32	2.48	3.95	36.00	32.05		
	62	0.46	0.51	0.97	-0.15	30.00	30.15	1.18	1.33	2.51	4.00	36.00	32.00		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result Cond.	PSD Result e.i.r.p.	PSD Result Cond.	PSD Result e.i.r.p.
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Result	PSD Result	PSD Result				
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]				
5510	61	0.03	-	-22.72	1.94	20.16	4.15	-0.58	3.57	-22.72	2.03	20.16	4.15	-0.49	3.66
	62	0.03	-	-22.63	1.94	20.16	4.15	-0.50	3.65	-22.45	2.03	20.16	4.15	-0.22	3.93
5550	61	0.03	-	-22.88	1.95	20.17	4.15	-0.73	3.42	-22.69	2.03	20.16	4.15	-0.46	3.69
	62	0.03	-	-22.88	1.95	20.17	4.15	-0.73	3.42	-22.54	2.03	20.16	4.15	-0.32	3.83
5670	61	0.03	-	-22.94	1.91	20.17	4.15	-0.83	3.32	-22.79	1.98	20.16	4.15	-0.62	3.53
	62	0.03	-	-22.91	1.91	20.17	4.15	-0.81	3.34	-22.62	1.98	20.16	4.15	-0.45	3.70
5710	61	0.03	-	-23.26	1.91	20.17	4.15	-1.15	3.00	-22.99	1.98	20.16	4.15	-0.82	3.33
	62	0.03	-	-23.12	1.91	20.17	4.15	-1.01	3.14	-22.85	1.98	20.16	4.15	-0.68	3.47
5755	61	0.03	0.27	-25.82	1.93	20.17	4.15	-3.42	0.73	-25.65	2.00	20.16	4.15	-3.19	0.96
	62	0.03	0.27	-26.02	1.93	20.17	4.15	-3.62	0.53	-25.59	2.00	20.16	4.15	-3.13	1.02
5795	61	0.03	0.27	-25.90	1.93	20.17	4.15	-3.50	0.65	-25.42	2.01	20.16	4.15	-2.95	1.20
	62	0.03	0.27	-25.82	1.93	20.17	4.15	-3.41	0.74	-25.39	2.01	20.16	4.15	-2.92	1.23

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 29, 2024
Temperature / Humidity 24 deg. C / 42 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-40(OFDMA) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5190	65	0.51	0.47	0.98	-0.09	11.00	11.09		1.32	1.22	2.55	4.06	17.00	12.94	
5230	65	0.46	0.44	0.89	-0.48	11.00	11.48		1.19	1.13	2.33	3.67	17.00	13.33	
5270	65	0.42	0.40	0.81	-0.91	11.00	11.91		1.08	1.03	2.11	3.24	17.00	13.76	
5310	65	0.43	0.38	0.81	-0.91	11.00	11.91		1.12	0.99	2.11	3.24	17.00	13.76	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result Cond.	PSD Result e.i.r.p.	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond.	PSD Result e.i.r.p.
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain							
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]							
5190	65	0.06	-	-25.08	1.91	20.17	4.15	-2.93	1.22	-25.47	1.96	20.17	4.15	-3.28	0.87			
5230	65	0.06	-	-25.54	1.94	20.17	4.15	-3.38	0.77	-25.83	1.99	20.17	4.15	-3.61	0.54			
5270	65	0.06	-	-25.99	1.95	20.17	4.15	-3.82	0.33	-26.26	2.00	20.17	4.15	-4.03	0.12			
5310	65	0.06	-	-25.84	1.95	20.17	4.15	-3.66	0.49	-26.42	2.00	20.17	4.15	-4.19	-0.04			

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5510	65	0.46	0.48	0.94	-0.26	11.00	11.26		1.20	1.25	2.45	3.89	17.00	13.11	
5550	65	0.44	0.49	0.93	-0.33	11.00	11.33		1.15	1.26	2.41	3.82	17.00	13.18	
5670	65	0.43	0.45	0.88	-0.55	11.00	11.55		1.13	1.16	2.29	3.60	17.00	13.40	
5710	65	0.43	0.42	0.84	-0.74	11.00	11.74		1.11	1.09	2.19	3.41	17.00	13.59	
5755	65	0.21	0.22	0.43	-3.67	30.00	33.67		0.55	0.57	1.12	0.48	36.00	35.52	
5795	65	0.22	0.25	0.47	-3.30	30.00	33.30		0.57	0.64	1.22	0.85	36.00	35.15	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result Cond.	PSD Result e.i.r.p.	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond.	PSD Result e.i.r.p.
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain							
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]							
5510	65	0.06	-	-25.52	1.94	20.16	4.15	-3.35	0.80	-25.45	2.03	20.16	4.15	-3.19	0.96			
5550	65	0.06	-	-25.74	1.95	20.17	4.15	-3.56	0.59	-25.39	2.03	20.16	4.15	-3.13	1.02			
5670	65	0.06	-	-25.75	1.91	20.17	4.15	-3.62	0.53	-25.70	1.98	20.16	4.15	-3.50	0.65			
5710	65	0.06	-	-25.85	1.91	20.17	4.15	-3.71	0.44	-25.99	1.98	20.16	4.15	-3.79	0.36			
5755	65	0.06	0.27	-29.19	1.93	20.17	4.15	-6.76	-2.61	-29.08	2.00	20.16	4.15	-6.59	-2.44			
5795	65	0.06	0.27	-28.99	1.93	20.17	4.15	-6.56	-2.41	-28.58	2.01	20.16	4.15	-6.07	-1.92			

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 17, 2024
Temperature / Humidity 24 deg. C / 32 % RH
Engineer Makoto Hosaka
Mode Tx 11ac-80 CDD

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1	2	Sum				1	2	Sum			
	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5210	0.27	0.24	0.51	-2.95	11.00	13.95	0.69	0.63	1.32	1.20	17.00	15.80
5290	0.27	0.25	0.52	-2.86	11.00	13.86	0.70	0.65	1.35	1.29	17.00	15.71
5530	0.24	0.23	0.47	-3.24	11.00	14.24	0.63	0.61	1.23	0.91	17.00	16.09
5610	0.23	0.25	0.49	-3.12	11.00	14.12	0.61	0.66	1.27	1.03	17.00	15.97
5690	0.23	0.22	0.45	-3.51	11.00	14.51	0.60	0.56	1.16	0.64	17.00	16.36
5775	0.11	0.10	0.21	-6.77	30.00	36.77	0.28	0.27	0.55	-2.62	36.00	38.62

5G_CH0								5G_CH1							
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD	Cable	Atten.	Directional	PSD	Cable	Atten.	Directional
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond.	e.i.r.p.	[dBm/MHz]	[dB]	[dB]	Cond.	[dBm/MHz]	[dB]	[dBi]
5210	0.01	0.00	-18.38	2.40	10.22	4.15	-5.75	-1.60	-18.53	2.41	9.93	4.15	-6.18	-2.03	
5290	0.01	0.00	-18.37	2.43	10.22	4.15	-5.71	-1.56	-18.44	2.46	9.93	4.15	-6.04	-1.89	
5530	0.01	0.00	-18.87	2.45	10.22	4.15	-6.19	-2.04	-18.76	2.50	9.94	4.15	-6.31	-2.16	
5610	0.01	0.00	-18.97	2.45	10.22	4.15	-6.29	-2.14	-18.42	2.50	9.94	4.15	-5.97	-1.82	
5690	0.01	0.00	-19.04	2.43	10.22	4.15	-6.38	-2.23	-19.07	2.46	9.94	4.15	-6.66	-2.51	
5775	0.01	0.27	-22.60	2.43	10.22	4.15	-9.67	-5.52	-22.58	2.46	9.94	4.15	-9.90	-5.75	

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 2, 2024
Temperature / Humidity 22 deg. C / 26 % RH
Engineer Iku Ikudome
Mode Tx 11ax-80 CDD

5G_CH0 + 5G_CH1 Applied limit: 15.407, client

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1	2	Sum				1	2	Sum			
	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5210	0.24	0.21	0.45	-3.45	11.00	14.45	0.63	0.54	1.17	0.70	17.00	16.30
5290	0.25	0.23	0.48	-3.18	11.00	14.18	0.65	0.60	1.25	0.97	17.00	16.03
5530	0.24	0.24	0.48	-3.19	11.00	14.19	0.63	0.62	1.25	0.96	17.00	16.04
5610	0.25	0.26	0.50	-2.98	11.00	13.98	0.64	0.67	1.31	1.17	17.00	15.83
5690	0.24	0.21	0.45	-3.46	11.00	14.46	0.62	0.55	1.17	0.69	17.00	16.31
5775	0.11	0.12	0.23	-6.30	30.00	36.30	0.30	0.31	0.61	-2.15	36.00	38.15

5G_CH0								5G_CH1							
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond. e.i.r.p.	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond. e.i.r.p.	[dBm/MHz]	[dB]	[dB]
5210	0.01	0.00	-18.76	2.40	10.22	4.15	-6.13 -1.98	-19.17	2.41	9.93	4.15	-6.82 -2.67	-18.77	2.46	9.93
5290	0.01	0.00	-18.68	2.43	10.22	4.15	-6.02 -1.87	-18.77	2.46	9.93	4.15	-6.37 -2.22	-18.69	2.50	9.94
5530	0.01	0.00	-18.84	2.45	10.22	4.15	-6.16 -2.01	-18.69	2.50	9.94	4.15	-6.24 -2.09	-18.37	2.50	9.94
5610	0.01	0.00	-18.74	2.45	10.22	4.15	-6.06 -1.91	-18.37	2.50	9.94	4.15	-5.92 -1.77	-18.77	2.46	9.94
5690	0.01	0.00	-18.87	2.43	10.22	4.15	-6.21 -2.06	-19.16	2.46	9.94	4.15	-6.75 -2.60	-18.69	2.50	9.94
5775	0.01	0.27	-22.33	2.43	10.22	4.15	-9.40 -5.25	-21.90	2.46	9.94	4.15	-9.22 -5.07	-18.77	2.46	9.94

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 29, 2024
Temperature / Humidity 24 deg. C / 42 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]				5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]			
5210	0	1.60	1.52	3.11	4.93	11.00	6.07	4.15	3.94	8.10	9.08	17.00	7.92
	18	1.13	1.14	2.27	3.56	11.00	7.44	2.93	2.97	5.90	7.71	17.00	9.29
	36	1.47	1.53	3.00	4.77	11.00	6.23	3.83	3.97	7.80	8.92	17.00	8.08
5290	0	6.43	5.61	12.04	10.81	11.00	0.19	16.72	14.59	31.31	14.96	17.00	2.04
	18	4.42	3.89	8.31	9.19	11.00	1.81	11.49	10.11	21.60	13.34	17.00	3.66
	36	5.74	5.10	10.84	10.35	11.00	0.65	14.91	13.27	28.18	14.50	17.00	2.50

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result Cond.	PSD Result e.i.r.p.	PSD Result Cond.	PSD Result e.i.r.p.
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain				
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dB]	[dB]	[dBi]				
5210	0	0.04	-	-20.09	1.91	20.17	4.15	2.04	6.19	-20.36	1.96	20.17	4.15	1.81	5.96
	18	0.04	-	-21.60	1.91	20.17	4.15	0.52	4.67	-21.60	1.96	20.17	4.15	0.57	4.72
	36	0.04	-	-20.45	1.91	20.17	4.15	1.68	5.83	-20.33	1.96	20.17	4.15	1.84	5.99
5290	0	0.04	-	-14.07	1.95	20.17	4.15	8.08	12.23	-14.72	2.00	20.17	4.15	7.49	11.64
	18	0.04	-	-15.70	1.95	20.17	4.15	6.45	10.60	-16.31	2.00	20.17	4.15	5.90	10.05
	36	0.04	-	-14.57	1.95	20.17	4.15	7.59	11.74	-15.13	2.00	20.17	4.15	7.08	11.23

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 29, 2024
Temperature / Humidity 24 deg. C / 42 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5530	0	5.74	5.65	11.39	10.56	11.00	0.44		14.93	14.68	29.61	14.71	17.00	2.29	
	18	4.44	4.75	9.19	9.63	11.00	1.37		11.54	12.35	23.89	13.78	17.00	3.22	
	36	5.52	6.15	11.68	10.67	11.00	0.33		14.36	16.00	30.36	14.82	17.00	2.18	
5610	0	5.87	5.73	11.60	10.65	11.00	0.35		15.26	14.90	30.17	14.80	17.00	2.20	
	18	4.74	5.14	9.87	9.94	11.00	1.06		12.32	13.36	25.67	14.09	17.00	2.91	
	36	5.63	6.33	11.95	10.78	11.00	0.22		14.63	16.45	31.08	14.93	17.00	2.07	
5690	0	6.15	5.57	11.72	10.69	11.00	0.31		15.99	14.48	30.47	14.84	17.00	2.16	
	18	4.56	4.18	8.74	9.42	11.00	1.58		11.85	10.87	22.73	13.57	17.00	3.43	
	36	6.11	6.32	12.43	10.94	11.00	0.06		15.90	16.42	32.32	15.09	17.00	1.91	
5775	0	3.07	2.61	5.68	7.54	30.00	22.46		7.98	6.78	14.77	11.69	36.00	24.31	
	18	2.61	2.69	5.30	7.24	30.00	22.76		6.77	6.99	13.77	11.39	36.00	24.61	
	36	2.93	3.15	6.08	7.84	30.00	22.16		7.62	8.18	15.80	11.99	36.00	24.01	

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD	Cable	Atten.	Directional	PSD Result	
								Cond.	e.i.r.p.	Reading	Loss	Loss	Gain	Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5530	0	0.04	-	-14.56	1.94	20.16	4.15	7.59	11.74	-14.72	2.03	20.16	4.15	7.52	11.67
	18	0.04	-	-15.68	1.94	20.16	4.15	6.47	10.62	-15.47	2.03	20.16	4.15	6.77	10.92
	36	0.04	-	-14.73	1.94	20.16	4.15	7.42	11.57	-14.35	2.03	20.16	4.15	7.89	12.04
5610	0	0.04	-	-14.43	1.91	20.17	4.15	7.69	11.84	-14.60	1.97	20.16	4.15	7.58	11.73
	18	0.04	-	-15.36	1.91	20.17	4.15	6.75	10.90	-15.07	1.97	20.16	4.15	7.11	11.26
	36	0.04	-	-14.61	1.91	20.17	4.15	7.50	11.65	-14.17	1.97	20.16	4.15	8.01	12.16
5690	0	0.04	-	-14.23	1.91	20.17	4.15	7.89	12.04	-14.72	1.98	20.16	4.15	7.46	11.61
	18	0.04	-	-15.53	1.91	20.17	4.15	6.59	10.74	-15.97	1.98	20.16	4.15	6.21	10.36
	36	0.04	-	-14.25	1.91	20.17	4.15	7.86	12.01	-14.18	1.98	20.16	4.15	8.00	12.15
5775	0	0.04	0.27	-17.54	1.93	20.17	4.15	4.87	9.02	-18.31	2.00	20.16	4.15	4.17	8.32
	18	0.04	0.27	-18.25	1.93	20.17	4.15	4.16	8.31	-18.18	2.00	20.16	4.15	4.30	8.45
	36	0.04	0.27	-17.74	1.93	20.17	4.15	4.67	8.82	-17.49	2.00	20.16	4.15	4.98	9.13

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 1, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5210	37	1.73	1.63	3.36	5.26	11.00	5.74		4.49	4.23	8.72	9.41	17.00	7.59	
	44	1.66	1.39	3.05	4.84	11.00	6.16		4.32	3.61	7.93	8.99	17.00	8.01	
	52	1.63	1.48	3.11	4.93	11.00	6.07		4.24	3.85	8.09	9.08	17.00	7.92	
5290	37	3.87	3.66	7.53	8.77	11.00	2.23		10.06	9.52	19.58	12.92	17.00	4.08	
	44	3.74	3.30	7.04	8.48	11.00	2.52		9.74	8.58	18.31	12.63	17.00	4.37	
	52	3.68	3.54	7.22	8.59	11.00	2.41		9.58	9.20	18.78	12.74	17.00	4.26	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result Cond.	PSD Result e.i.r.p.	PSD Result Cond.	PSD Result e.i.r.p.
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain				
				[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dB]				
5210	37	0.07	-	-19.78	1.91	20.17	4.15	2.38	6.53	-20.09	1.96	20.17	4.15	2.11	6.26
	44	0.07	-	-19.95	1.91	20.17	4.15	2.21	6.36	-20.78	1.96	20.17	4.15	1.42	5.57
	52	0.07	-	-20.03	1.91	20.17	4.15	2.13	6.28	-20.50	1.96	20.17	4.15	1.70	5.85
5290	37	0.07	-	-16.31	1.95	20.17	4.15	5.88	10.03	-16.61	2.00	20.17	4.15	5.63	9.78
	44	0.07	-	-16.45	1.95	20.17	4.15	5.73	9.88	-17.06	2.00	20.17	4.15	5.18	9.33
	52	0.07	-	-16.52	1.95	20.17	4.15	5.66	9.81	-16.75	2.00	20.17	4.15	5.49	9.64

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 1, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5530	37	3.16	3.19	6.35	8.03	11.00	2.97	8.23	8.29	16.52	12.18	17.00	4.82		
	44	3.19	3.19	6.38	8.05	11.00	2.95	8.30	8.29	16.59	12.20	17.00	4.80		
	52	3.12	3.32	6.44	8.09	11.00	2.91	8.12	8.62	16.74	12.24	17.00	4.76		
5610	37	3.25	3.40	6.64	8.22	11.00	2.78	8.44	8.83	17.27	12.37	17.00	4.63		
	44	3.42	3.88	7.30	8.63	11.00	2.37	8.89	10.09	18.97	12.78	17.00	4.22		
	52	3.43	4.14	7.57	8.79	11.00	2.21	8.92	10.75	19.67	12.94	17.00	4.06		
5690	37	3.62	3.16	6.78	8.31	11.00	2.69	9.41	8.22	17.63	12.46	17.00	4.54		
	44	3.29	3.13	6.42	8.07	11.00	2.93	8.56	8.13	16.69	12.22	17.00	4.78		
	52	3.30	3.26	6.56	8.17	11.00	2.83	8.57	8.48	17.05	12.32	17.00	4.68		
5775	37	1.92	2.16	4.09	6.11	30.00	23.89	5.00	5.62	10.63	10.26	36.00	25.74		
	44	1.80	1.84	3.64	5.61	30.00	24.39	4.68	4.78	9.46	9.76	36.00	26.24		
	52	1.91	2.09	4.00	6.02	30.00	23.98	4.97	5.44	10.41	10.17	36.00	25.83		

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				5G_CH0				5G_CH1			
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]
5530	37	0.07	-	-17.18	1.94	20.16	4.15	5.00	9.15	-17.23	2.03	20.16	4.15	5.04	9.19	-17.23	2.03	20.16	4.15
	44	0.07	-	-17.14	1.94	20.16	4.15	5.04	9.19	-17.23	2.03	20.16	4.15	5.03	9.18	-17.23	2.03	20.16	4.15
	52	0.07	-	-17.23	1.94	20.16	4.15	4.95	9.10	-17.06	2.03	20.16	4.15	5.21	9.36	-17.06	2.03	20.16	4.15
5610	37	0.07	-	-17.03	1.91	20.17	4.15	5.11	9.26	-16.90	1.97	20.16	4.15	5.31	9.46	-16.90	1.97	20.16	4.15
	44	0.07	-	-16.81	1.91	20.17	4.15	5.34	9.49	-16.32	1.97	20.16	4.15	5.89	10.04	-16.32	1.97	20.16	4.15
	52	0.07	-	-16.79	1.91	20.17	4.15	5.35	9.50	-16.04	1.97	20.16	4.15	6.17	10.32	-16.04	1.97	20.16	4.15
5690	37	0.07	-	-16.56	1.91	20.17	4.15	5.59	9.74	-17.21	1.98	20.16	4.15	5.00	9.15	-17.21	1.98	20.16	4.15
	44	0.07	-	-16.97	1.91	20.17	4.15	5.17	9.32	-17.26	1.98	20.16	4.15	4.95	9.10	-17.26	1.98	20.16	4.15
	52	0.07	-	-16.97	1.91	20.17	4.15	5.18	9.33	-17.08	1.98	20.16	4.15	5.13	9.28	-17.08	1.98	20.16	4.15
5775	37	0.07	0.27	-19.60	1.93	20.17	4.15	2.84	6.99	-19.15	2.00	20.16	4.15	3.35	7.50	-19.15	2.00	20.16	4.15
	44	0.07	0.27	-19.89	1.93	20.17	4.15	2.56	6.71	-19.86	2.00	20.16	4.15	2.64	6.79	-19.86	2.00	20.16	4.15
	52	0.07	0.27	-19.63	1.93	20.17	4.15	2.81	6.96	-19.30	2.00	20.16	4.15	3.21	7.36	-19.30	2.00	20.16	4.15

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 1, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5210	53	1.86	1.70	3.56	5.52	11.00	5.48		4.84	4.42	9.27	9.67	17.00	7.33	
	56	1.89	1.79	3.68	5.65	11.00	5.35		4.91	4.65	9.56	9.80	17.00	7.20	
	60	1.81	1.82	3.63	5.60	11.00	5.40		4.70	4.74	9.44	9.75	17.00	7.25	
5290	53	2.03	1.81	3.84	5.85	11.00	5.15		5.29	4.70	9.99	10.00	17.00	7.00	
	56	1.82	1.76	3.59	5.55	11.00	5.45		4.73	4.59	9.32	9.70	17.00	7.30	
	60	1.98	1.76	3.75	5.74	11.00	5.26		5.15	4.59	9.74	9.89	17.00	7.11	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result Cond.	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result e.i.r.p.
				PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain					
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]					
5210	53	0.01	-	-19.39	1.91	20.17	4.15	2.70	6.85	-19.83	1.96	20.17	4.15	2.31	6.46	
	56	0.01	-	-19.33	1.91	20.17	4.15	2.76	6.91	-19.62	1.96	20.17	4.15	2.52	6.67	
	60	0.01	-	-19.53	1.91	20.17	4.15	2.57	6.72	-19.53	1.96	20.17	4.15	2.61	6.76	
5290	53	0.01	-	-19.04	1.95	20.17	4.15	3.08	7.23	-19.61	2.00	20.17	4.15	2.57	6.72	
	56	0.01	-	-19.52	1.95	20.17	4.15	2.60	6.75	-19.72	2.00	20.17	4.15	2.47	6.62	
	60	0.01	-	-19.15	1.95	20.17	4.15	2.97	7.12	-19.72	2.00	20.17	4.15	2.47	6.62	

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 4, 2024
Temperature / Humidity 23 deg. C / 47 % RH
Engineer Yuta Shiba
Mode Tx 11ax-80(OFDMA) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]						5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					
5530	53	1.87	1.84	3.71	5.69	11.00	5.31	4.86	4.79	9.65	9.84	17.00	7.16		
	56	1.98	1.97	3.94	5.96	11.00	5.04	5.14	5.11	10.25	10.11	17.00	6.89		
	60	1.97	2.01	3.98	6.00	11.00	5.00	5.13	5.22	10.36	10.15	17.00	6.85		
5610	53	1.94	1.98	3.92	5.93	11.00	5.07	5.04	5.15	10.19	10.08	17.00	6.92		
	56	1.94	2.00	3.94	5.95	11.00	5.05	5.04	5.20	10.24	10.10	17.00	6.90		
	60	1.97	2.13	4.11	6.13	11.00	4.87	5.13	5.54	10.68	10.28	17.00	6.72		
5690	53	2.03	1.83	3.85	5.86	11.00	5.14	5.27	4.75	10.02	10.01	17.00	6.99		
	56	1.94	1.88	3.82	5.82	11.00	5.18	5.05	4.88	9.93	9.97	17.00	7.03		
	60	1.91	2.00	3.90	5.92	11.00	5.08	4.95	5.20	10.15	10.07	17.00	6.93		
5775	53	0.88	0.94	1.82	2.61	30.00	27.39	2.29	2.45	4.74	6.76	36.00	29.24		
	56	0.87	0.94	1.80	2.56	30.00	27.44	2.26	2.43	4.69	6.71	36.00	29.29		
	60	0.87	1.02	1.89	2.76	30.00	27.24	2.26	2.64	4.91	6.91	36.00	29.09		

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	
								Cond.	e.i.r.p.					Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5530	53	0.01	-	-19.40	1.94	20.16	4.15	2.71	6.86	-19.55	2.03	20.16	4.15	2.65	6.80
	56	0.01	-	-19.16	1.94	20.16	4.15	2.96	7.11	-19.27	2.03	20.16	4.15	2.93	7.08
	60	0.01	-	-19.16	1.94	20.16	4.15	2.96	7.11	-19.18	2.03	20.16	4.15	3.03	7.18
5610	53	0.01	-	-19.20	1.91	20.17	4.15	2.88	7.03	-19.18	1.97	20.16	4.15	2.97	7.12
	56	0.01	-	-19.21	1.91	20.17	4.15	2.88	7.03	-19.14	1.97	20.16	4.15	3.01	7.16
	60	0.01	-	-19.13	1.91	20.17	4.15	2.95	7.10	-18.86	1.97	20.16	4.15	3.29	7.44
5690	53	0.01	-	-19.02	1.91	20.17	4.15	3.07	7.22	-19.54	1.98	20.16	4.15	2.61	6.76
	56	0.01	-	-19.20	1.91	20.17	4.15	2.88	7.03	-19.41	1.98	20.16	4.15	2.74	6.89
	60	0.01	-	-19.29	1.91	20.17	4.15	2.80	6.95	-19.14	1.98	20.16	4.15	3.01	7.16
5775	53	0.01	0.27	-22.94	1.93	20.17	4.15	-0.56	3.59	-22.69	2.00	20.16	4.15	-0.25	3.90
	56	0.01	0.27	-22.99	1.93	20.17	4.15	-0.61	3.54	-22.73	2.00	20.16	4.15	-0.29	3.86
	60	0.01	0.27	-22.99	1.93	20.17	4.15	-0.61	3.54	-22.37	2.00	20.16	4.15	0.07	4.22

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 1, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5210	61	0.93	0.85	1.78	2.51	11.00	8.49	2.43	2.21	4.63	6.66	17.00	10.34
	62	0.90	0.78	1.68	2.26	11.00	8.74	2.35	2.03	4.37	6.41	17.00	10.59
	64	0.83	0.81	1.64	2.14	11.00	8.86	2.16	2.10	4.25	6.29	17.00	10.71
5290	61	0.88	0.76	1.64	2.16	11.00	8.84	2.30	1.98	4.28	6.31	17.00	10.69
	62	0.86	0.73	1.59	2.02	11.00	8.98	2.23	1.91	4.14	6.17	17.00	10.83
	64	0.84	0.79	1.63	2.12	11.00	8.88	2.18	2.05	4.23	6.27	17.00	10.73

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	
								Cond.	e.i.r.p.					Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	61	0.03	-	-22.42	1.91	20.17	4.15	-0.30	3.85	-22.87	1.96	20.17	4.15	-0.71	3.44
	62	0.03	-	-22.56	1.91	20.17	4.15	-0.45	3.70	-23.24	1.96	20.17	4.15	-1.08	3.07
	64	0.03	-	-22.92	1.91	20.17	4.15	-0.81	3.34	-23.10	1.96	20.17	4.15	-0.94	3.21
5290	61	0.03	-	-22.68	1.95	20.17	4.15	-0.54	3.61	-23.39	2.00	20.17	4.15	-1.18	2.97
	62	0.03	-	-22.81	1.95	20.17	4.15	-0.67	3.48	-23.55	2.00	20.17	4.15	-1.34	2.81
	64	0.03	-	-22.91	1.95	20.17	4.15	-0.77	3.38	-23.22	2.00	20.17	4.15	-1.02	3.13

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss+ Duty Factor+ RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 1, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]				
5530	61	0.83	0.86	1.69	2.28	11.00	8.72	2.16	2.23	4.39	6.43	17.00	10.57
	62	0.86	0.80	1.66	2.20	11.00	8.80	2.24	2.07	4.31	6.35	17.00	10.65
	64	0.88	0.85	1.73	2.39	11.00	8.61	2.30	2.21	4.50	6.54	17.00	10.46
5610	61	0.87	0.89	1.76	2.45	11.00	8.55	2.27	2.30	4.57	6.60	17.00	10.40
	62	0.82	0.75	1.57	1.96	11.00	9.04	2.13	1.96	4.09	6.11	17.00	10.89
	64	0.85	0.91	1.77	2.47	11.00	8.53	2.22	2.38	4.59	6.62	17.00	10.38
5690	61	0.88	0.80	1.69	2.28	11.00	8.72	2.30	2.09	4.39	6.43	17.00	10.57
	62	0.85	0.80	1.65	2.17	11.00	8.83	2.21	2.07	4.28	6.32	17.00	10.68
	64	0.86	0.83	1.68	2.27	11.00	8.73	2.23	2.15	4.38	6.42	17.00	10.58
5775	61	0.40	0.41	0.81	-0.91	30.00	30.91	1.05	1.06	2.11	3.24	36.00	32.76
	62	0.43	0.42	0.85	-0.71	30.00	30.71	1.13	1.08	2.21	3.44	36.00	32.56
	64	0.40	0.45	0.85	-0.68	30.00	30.68	1.05	1.17	2.22	3.47	36.00	32.53

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	
								Cond.	e.i.r.p.					Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5530	61	0.03	-	-22.95	1.94	20.16	4.15	-0.81	3.34	-22.89	2.03	20.16	4.15	-0.66	3.49
	62	0.03	-	-22.78	1.94	20.16	4.15	-0.64	3.51	-23.22	2.03	20.16	4.15	-1.00	3.15
	64	0.03	-	-22.68	1.94	20.16	4.15	-0.54	3.61	-22.94	2.03	20.16	4.15	-0.71	3.44
5610	61	0.03	-	-22.69	1.91	20.17	4.15	-0.59	3.56	-22.70	1.97	20.16	4.15	-0.53	3.62
	62	0.03	-	-22.96	1.91	20.17	4.15	-0.86	3.29	-23.41	1.97	20.16	4.15	-1.24	2.91
	64	0.03	-	-22.80	1.91	20.17	4.15	-0.69	3.46	-22.56	1.97	20.16	4.15	-0.39	3.76
5690	61	0.03	-	-22.64	1.91	20.17	4.15	-0.53	3.62	-23.12	1.98	20.16	4.15	-0.94	3.21
	62	0.03	-	-22.81	1.91	20.17	4.15	-0.70	3.45	-23.16	1.98	20.16	4.15	-0.98	3.17
	64	0.03	-	-22.77	1.91	20.17	4.15	-0.66	3.49	-23.00	1.98	20.16	4.15	-0.83	3.32
5775	61	0.03	0.27	-26.34	1.93	20.17	4.15	-3.94	0.21	-26.37	2.00	20.16	4.15	-3.90	0.25
	62	0.03	0.27	-26.02	1.93	20.17	4.15	-3.62	0.53	-26.28	2.00	20.16	4.15	-3.82	0.33
	64	0.03	0.27	-26.33	1.93	20.17	4.15	-3.93	0.22	-25.93	2.00	20.16	4.15	-3.47	0.68

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 2, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]				
5210	65	0.46	0.41	0.88	-0.57	11.00	11.57	1.21	1.08	2.28	3.58	17.00	13.42
	66	0.44	0.40	0.84	-0.78	11.00	11.78	1.14	1.03	2.17	3.37	17.00	13.63
5290	65	0.45	0.43	0.88	-0.54	11.00	11.54	1.18	1.12	2.30	3.61	17.00	13.39
	66	0.42	0.37	0.78	-1.06	11.00	12.06	1.08	0.95	2.04	3.09	17.00	13.91

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	65	0.04	-	-25.46	1.91	20.17	4.15	-3.34	0.81	-26.00	1.96	20.17	4.15	-3.83	0.32
	66	0.04	-	-25.69	1.91	20.17	4.15	-3.57	0.58	-26.19	1.96	20.17	4.15	-4.02	0.13
5290	65	0.04	-	-25.59	1.95	20.17	4.15	-3.43	0.72	-25.88	2.00	20.17	4.15	-3.67	0.48
	66	0.04	-	-25.97	1.95	20.17	4.15	-3.81	0.34	-26.56	2.00	20.17	4.15	-4.35	-0.20

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
		5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]					5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]				
5530	65	0.44	0.43	0.87	-0.62	11.00	11.62	1.14	1.11	2.25	3.53	17.00	13.47
	66	0.45	0.42	0.87	-0.61	11.00	11.61	1.17	1.08	2.26	3.54	17.00	13.46
5610	65	0.43	0.44	0.87	-0.61	11.00	11.61	1.11	1.14	2.26	3.54	17.00	13.46
	66	0.46	0.45	0.91	-0.40	11.00	11.40	1.20	1.17	2.37	3.75	17.00	13.25
5690	65	0.44	0.41	0.86	-0.67	11.00	11.67	1.15	1.07	2.23	3.48	17.00	13.52
	66	0.46	0.42	0.88	-0.58	11.00	11.58	1.19	1.08	2.28	3.57	17.00	13.43
5775	65	0.22	0.22	0.44	-3.52	30.00	33.52	0.57	0.58	1.16	0.63	36.00	35.37
	66	0.22	0.22	0.44	-3.56	30.00	33.56	0.57	0.58	1.14	0.59	36.00	35.41

				5G_CH0						5G_CH1					
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5530	65	0.04	-	-25.72	1.94	20.16	4.15	-3.57	0.58	-25.93	2.03	20.16	4.15	-3.70	0.45
	66	0.04	-	-25.60	1.94	20.16	4.15	-3.45	0.70	-26.03	2.03	20.16	4.15	-3.80	0.35
5610	65	0.04	-	-25.79	1.91	20.17	4.15	-3.68	0.47	-25.75	1.97	20.16	4.15	-3.57	0.58
	66	0.04	-	-25.47	1.91	20.17	4.15	-3.36	0.79	-25.64	1.97	20.16	4.15	-3.46	0.69
5690	65	0.04	-	-25.65	1.91	20.17	4.15	-3.53	0.62	-26.02	1.98	20.16	4.15	-3.84	0.31
	66	0.04	-	-25.50	1.91	20.17	4.15	-3.38	0.77	-25.98	1.98	20.16	4.15	-3.80	0.35
5775	65	0.04	0.27	-28.97	1.93	20.17	4.15	-6.55	-2.40	-28.98	2.00	20.16	4.15	-6.50	-2.35
	66	0.04	0.27	-29.04	1.93	20.17	4.15	-6.63	-2.48	-28.99	2.00	20.16	4.15	-6.52	-2.37

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 2, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-80(OFDMA) 996-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
[MHz]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5210	67	0.25	0.21	0.46	-3.37	11.00	14.37		0.66	0.54	1.20	0.78	17.00	16.22	
5290	67	0.23	0.20	0.43	-3.64	11.00	14.64		0.60	0.53	1.13	0.51	17.00	16.49	

5G_CH0								5G_CH1							
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	67	0.08	-	-28.14	1.91	20.17	4.15	-5.97	-1.82	-29.03	1.96	20.17	4.15	-6.82	-2.67
5290	67	0.08	-	-28.58	1.95	20.17	4.15	-6.38	-2.23	-29.18	2.00	20.17	4.15	-6.93	-2.78

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss+ Duty Factor+ RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
[MHz]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5530	67	0.21	0.22	0.43	-3.63	11.00	14.63		0.56	0.57	1.13	0.52	17.00	16.48	
5610	67	0.23	0.24	0.47	-3.24	11.00	14.24		0.60	0.63	1.23	0.91	17.00	16.09	
5690	67	0.23	0.21	0.45	-3.47	11.00	14.47		0.61	0.56	1.17	0.68	17.00	16.32	
5775	67	0.11	0.11	0.22	-6.51	30.00	36.51		0.28	0.30	0.58	-2.36	36.00	38.36	

5G_CH0								5G_CH1							
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5530	67	0.08	-	-28.89	1.94	20.16	4.15	-6.71	-2.56	-28.84	2.03	20.16	4.15	-6.57	-2.42
5610	67	0.08	-	-28.52	1.91	20.17	4.15	-6.36	-2.21	-28.36	1.97	20.16	4.15	-6.14	-1.99
5690	67	0.08	-	-28.45	1.91	20.17	4.15	-6.29	-2.14	-28.91	1.98	20.16	4.15	-6.69	-2.54
5775	67	0.08	0.27	-32.09	1.93	20.17	4.15	-9.64	-5.49	-31.93	2.00	20.16	4.15	-9.41	-5.26

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss+ Duty Factor+ RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 3, 2024
Temperature / Humidity 23 deg. C / 36 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-160 CDD

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	PSD (Cond.)							PSD (e.i.r.p.)						
	Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
	5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
[MHz]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5250	0.13	0.11	0.24	-6.13	11.00	17.13		0.34	0.30	0.63	-1.98	17.00	18.98	
5570	0.11	0.11	0.23	-6.45	11.00	17.45		0.30	0.29	0.59	-2.30	17.00	19.30	

5G_CH0								5G_CH1						
Tested Frequency	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		
[MHz]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	
5250	0.01	-21.50	2.40	10.22	4.15	-8.87	-4.72	-21.78	2.41	9.93	4.15	-9.43	-5.28	
5570	0.01	-22.13	2.45	10.22	4.15	-9.45	-5.30	-21.92	2.50	9.94	4.15	-9.47	-5.32	

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10\log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 2, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-160(OFDMA) 26-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5250	0	0	1.65	1.38	3.03	4.81	11.00	6.19	4.28	3.59	7.87	8.96	17.00	8.04
	0	36	1.61	1.32	2.93	4.67	11.00	6.33	4.19	3.43	7.62	8.82	17.00	8.18
	1	36	1.23	1.27	2.50	3.98	11.00	7.02	3.19	3.30	6.50	8.13	17.00	8.87

					5G_CH0						5G_CH1					
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5250	0	0	0.03	-	-19.95	1.92	20.17	4.15	2.16	6.31	-20.75	1.96	20.17	4.15	1.41	5.56
	0	36	0.03	-	-20.04	1.92	20.17	4.15	2.07	6.22	-20.95	1.96	20.17	4.15	1.21	5.36
	1	36	0.03	-	-21.22	1.92	20.17	4.15	0.89	5.04	-21.12	1.96	20.17	4.15	1.04	5.19

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5570	0	0	4.58	5.05	9.63	9.84	11.00	1.16	11.92	13.13	25.04	13.99	17.00	3.01
	0	36	5.48	5.55	11.03	10.43	11.00	0.57	14.26	14.42	28.68	14.58	17.00	2.42
	1	36	4.89	6.49	11.37	10.56	11.00	0.44	12.71	16.87	29.58	14.71	17.00	2.29

					5G_CH0					5G_CH1						
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5570	0	0	0.03	-	-15.53	1.94	20.17	4.15	6.61	10.76	-15.20	2.03	20.16	4.15	7.03	11.18
	0	36	0.03	-	-14.75	1.94	20.17	4.15	7.39	11.54	-14.79	2.03	20.16	4.15	7.44	11.59
	1	36	0.03	-	-15.25	1.94	20.17	4.15	6.89	11.04	-14.11	2.03	20.16	4.15	8.12	12.27

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 2, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-160(OFDMA) 52-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5250	0	37	1.80	1.42	3.22	5.07	11.00	5.93	4.67	3.69	8.36	9.22	17.00	7.78
	0	52	1.66	1.57	3.23	5.10	11.00	5.90	4.33	4.08	8.41	9.25	17.00	7.75
	1	52	1.29	1.30	2.59	4.14	11.00	6.86	3.36	3.38	6.74	8.29	17.00	8.71

					5G_CH0						5G_CH1					
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5250	0	37	0.06	-	-19.60	1.92	20.17	4.15	2.54	6.69	-20.67	1.96	20.17	4.15	1.52	5.67
	0	52	0.06	-	-19.93	1.92	20.17	4.15	2.21	6.36	-20.24	1.96	20.17	4.15	1.95	6.10
	1	52	0.06	-	-21.03	1.92	20.17	4.15	1.11	5.26	-21.05	1.96	20.17	4.15	1.14	5.29

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5570	0	37	3.53	3.11	6.64	8.22	11.00	2.78	9.19	8.09	17.28	12.37	17.00	4.63
	0	52	3.50	3.81	7.30	8.63	11.00	2.37	9.09	9.90	18.99	12.78	17.00	4.22
	1	52	3.71	3.91	7.62	8.82	11.00	2.18	9.63	10.17	19.81	12.97	17.00	4.03

5G_CH0											5G_CH1						
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	
5570	0	37	0.06	-	-16.69	1.94	20.17	4.15	5.48	9.63	-17.33	2.03	20.16	4.15	4.93	9.08	
	0	52	0.06	-	-16.73	1.94	20.17	4.15	5.44	9.59	-16.45	2.03	20.16	4.15	5.80	9.95	
	1	52	0.06	-	-16.48	1.94	20.17	4.15	5.69	9.84	-16.33	2.03	20.16	4.15	5.92	10.07	

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 2, 2024
Temperature / Humidity 25 deg. C / 34 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-160(OFDMA) 106-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5250	0	53	1.90	1.68	3.58	5.54	11.00	5.46	4.95	4.36	9.31	9.69	17.00	7.31
	0	60	1.71	1.53	3.24	5.11	11.00	5.89	4.45	3.98	8.42	9.26	17.00	7.74
	1	60	1.63	1.46	3.09	4.90	11.00	6.10	4.23	3.81	8.03	9.05	17.00	7.95

					5G_CH0					5G_CH1						
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5250	0	53	0.13	-	-19.42	1.92	20.17	4.15	2.79	6.94	-20.01	1.96	20.17	4.15	2.25	6.40
	0	60	0.13	-	-19.88	1.92	20.17	4.15	2.33	6.48	-20.42	1.96	20.17	4.15	1.84	5.99
	1	60	0.13	-	-20.11	1.92	20.17	4.15	2.11	6.26	-20.61	1.96	20.17	4.15	1.65	5.80

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	5G_CH0 [mW/MHz]	5G_CH1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5570	0	53	1.73	1.90	3.63	5.60	11.00	5.40	4.50	4.94	9.44	9.75	17.00	7.25
	0	60	1.99	2.16	4.15	6.18	11.00	4.82	5.18	5.61	10.79	10.33	17.00	6.67
	1	60	1.91	1.94	3.85	5.85	11.00	5.15	4.96	5.05	10.00	10.00	17.00	7.00

					5G_CH0						5G_CH1					
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5570	0	53	0.13	-	-19.86	1.94	20.17	4.15	2.39	6.54	-19.54	2.03	20.16	4.15	2.79	6.94
	0	60	0.13	-	-19.25	1.94	20.17	4.15	2.99	7.14	-18.99	2.03	20.16	4.15	3.34	7.49
	1	60	0.13	-	-19.44	1.94	20.17	4.15	2.80	6.95	-19.45	2.03	20.16	4.15	2.88	7.03

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 2, 2024 April 3, 2024
Temperature / Humidity 25 deg. C / 34 % RH 24 deg. C / 30 % RH
Engineer Yosuke Murakami Yosuke Murakami
Mode Tx 11ax-160(OFDMA) 242-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
			Antenna			Result	Limit	Margin	[dB]	Antenna			Result	Limit	Margin	[dB]
			5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
5250	0	61	0.94	0.85	1.80	2.54	11.00	8.46	2.46	2.21	4.67	6.69	17.00	10.31		
	0	64	0.88	0.77	1.65	2.19	11.00	8.81	2.29	2.01	4.30	6.34	17.00	10.66		
	1	64	0.78	0.70	1.48	1.69	11.00	9.31	2.03	1.81	3.84	5.84	17.00	11.16		

					5G_CH0						5G_CH1					
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5250	0	61	0.02	-	-22.35	1.92	20.17	4.15	-0.25	3.90	-22.85	1.96	20.17	4.15	-0.70	3.45
	0	64	0.02	-	-22.65	1.92	20.17	4.15	-0.55	3.60	-23.27	1.96	20.17	4.15	-1.12	3.03
	1	64	0.02	-	-23.18	1.92	20.17	4.15	-1.07	3.08	-23.73	1.96	20.17	4.15	-1.57	2.58

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency [MHz]	Segment	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
			Antenna			Result	Limit	Margin	[dB]	Antenna			Result	Limit	Margin	[dB]
			5G_CH0	5G_CH1	Sum					5G_CH0	5G_CH1	Sum				
5570	0	61	0.82	0.84	1.66	2.19	11.00	8.81	2.12	2.19	4.30	6.34	17.00	10.66		
	0	64	0.89	0.91	1.80	2.55	11.00	8.45	2.31	2.36	4.68	6.70	17.00	10.30		
	1	64	0.87	0.91	1.78	2.51	11.00	8.49	2.27	2.36	4.63	6.66	17.00	10.34		

					5G_CH0						5G_CH1					
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5570	0	61	0.02	-	-23.02	1.94	20.17	4.15	-0.89	3.26	-22.97	2.03	20.16	4.15	-0.76	3.39
	0	64	0.02	-	-22.64	1.94	20.17	4.15	-0.51	3.64	-22.63	2.03	20.16	4.15	-0.41	3.74
	1	64	0.02	-	-22.71	1.94	20.17	4.15	-0.58	3.57	-22.65	2.03	20.16	4.15	-0.43	3.72

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 3, 2024
Temperature / Humidity 24 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-160(OFDMA) 484-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
[MHz]			5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum			
			[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5250	0	65	0.51	0.42	0.94	-0.29	11.00	11.29	1.33	1.10	2.43	3.86	17.00	13.14
	1	66	0.42	0.37	0.79	-1.01	11.00	12.01	1.10	0.96	2.06	3.14	17.00	13.86

Tested Frequency [MHz]	Segment	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result			
					PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Result Cond.	PSD Result e.i.r.p.
					[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]
5250	0	65	0.04	-	-25.03	1.92	20.17	4.15	-2.90	1.25	-25.91	1.96	20.17	4.15	-3.74	0.41
	1	66	0.04	-	-25.87	1.92	20.17	4.15	-3.74	0.41	-26.48	1.96	20.17	4.15	-4.31	-0.16

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	Segment	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
			Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
			5G_CH0	5G_CH1					5G_CH0	5G_CH1				
[MHz]			[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5570	0	65	0.41	0.40	0.81	-0.89	11.00	11.89	1.07	1.05	2.12	3.26	17.00	13.74
	1	66	0.43	0.46	0.89	-0.50	11.00	11.50	1.12	1.19	2.32	3.65	17.00	13.35

Tested Frequency [MHz]	Segment	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	5G_CH0				5G_CH1				PSD Result			
					PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Result Cond.	PSD Result e.i.r.p.
					[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]
5570	0	65	0.04	-	-26.01	1.94	20.17	4.15	-3.86	0.29	-26.17	2.03	20.16	4.15	-3.94	0.21
	1	66	0.04	-	-25.80	1.94	20.17	4.15	-3.65	0.50	-25.62	2.03	20.16	4.15	-3.39	0.76

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 3, 2024
Temperature / Humidity 24 deg. C / 30 % RH
Engineer Yosuke Murakami
Mode Tx 11ax-160(OFDMA) 996-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	Segment	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin		
			5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum					
[MHz]			[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		
5250	0	67	0.23	0.22	0.45	-3.46	11.00	14.46	0.61	0.56	1.17	0.69	17.00	16.31		
	1	67	0.22	0.21	0.43	-3.66	11.00	14.66	0.58	0.54	1.12	0.49	17.00	16.51		

5G_CH0										5G_CH1						
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5250	0	67	0.08	-	-28.47	1.92	20.17	4.15	-6.30	-2.15	-28.85	1.96	20.17	4.15	-6.64	-2.49
	1	67	0.08	-	-28.66	1.92	20.17	4.15	-6.50	-2.35	-29.07	1.96	20.17	4.15	-6.85	-2.70

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	Segment	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin		
			5G_CH0	5G_CH1	Sum				5G_CH0	5G_CH1	Sum					
[MHz]			[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		
5570	0	67	0.22	0.21	0.43	-3.66	11.00	14.66	0.57	0.55	1.12	0.49	17.00	16.51		
	1	67	0.22	0.24	0.46	-3.38	11.00	14.38	0.58	0.62	1.20	0.77	17.00	16.23		

5G_CH0										5G_CH1						
Tested Frequency	Segment	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	e.i.r.p.
[MHz]			[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5570	0	67	0.08	-	-28.76	1.94	20.17	4.15	-6.57	-2.42	-29.05	2.03	20.16	4.15	-6.78	-2.63
	1	67	0.08	-	-28.71	1.94	20.17	4.15	-6.52	-2.37	-28.53	2.03	20.16	4.15	-6.26	-2.11

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 3, 2024 April 4, 2024
Temperature / Humidity 24 deg. C / 30 % RH 24 deg. C / 39 % RH
Engineer Yosuke Murakami Yosuke Murakami
Mode Tx 11ax-160(OFDMA) 2x996-tone RU

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
[MHz]		5G_CH0	5G_CH1						5G_CH0	5G_CH1					
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5250	68	0.12	0.10	0.22	-6.52	11.00	17.52		0.31	0.27	0.58	-2.37	17.00	19.37	

5G_CH0									5G_CH1						
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5250	68	0.08	-	-31.35	1.92	20.17	4.15	-9.19	-5.04	-32.11	1.96	20.17	4.15	-9.90	-5.75

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

5G_CH0 + 5G_CH1

Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna		Sum	Result	Limit	Margin		Antenna		Sum	Result	Limit	Margin	
[MHz]		5G_CH0	5G_CH1						5G_CH0	5G_CH1					
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5570	68	0.11	0.11	0.22	-6.58	11.00	17.58		0.28	0.29	0.57	-2.43	17.00	19.43	

5G_CH0									5G_CH1						
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5570	68	0.08	-	-31.88	1.94	20.17	4.15	-9.69	-5.54	-31.77	2.03	20.16	4.15	-9.49	-5.34

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Conversion Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

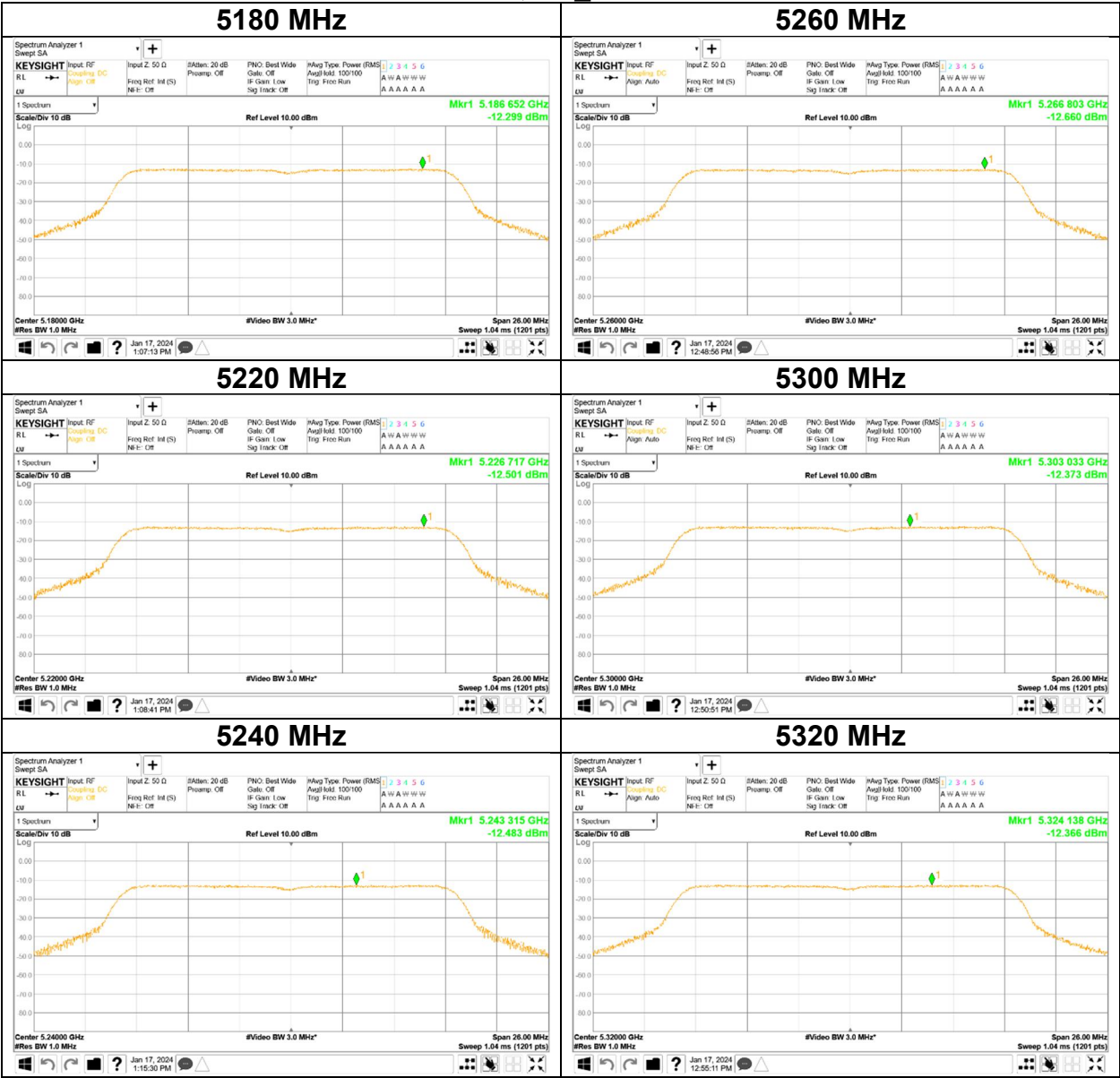
Directional Gain = Antenna Gain + Array Gain, Array Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

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

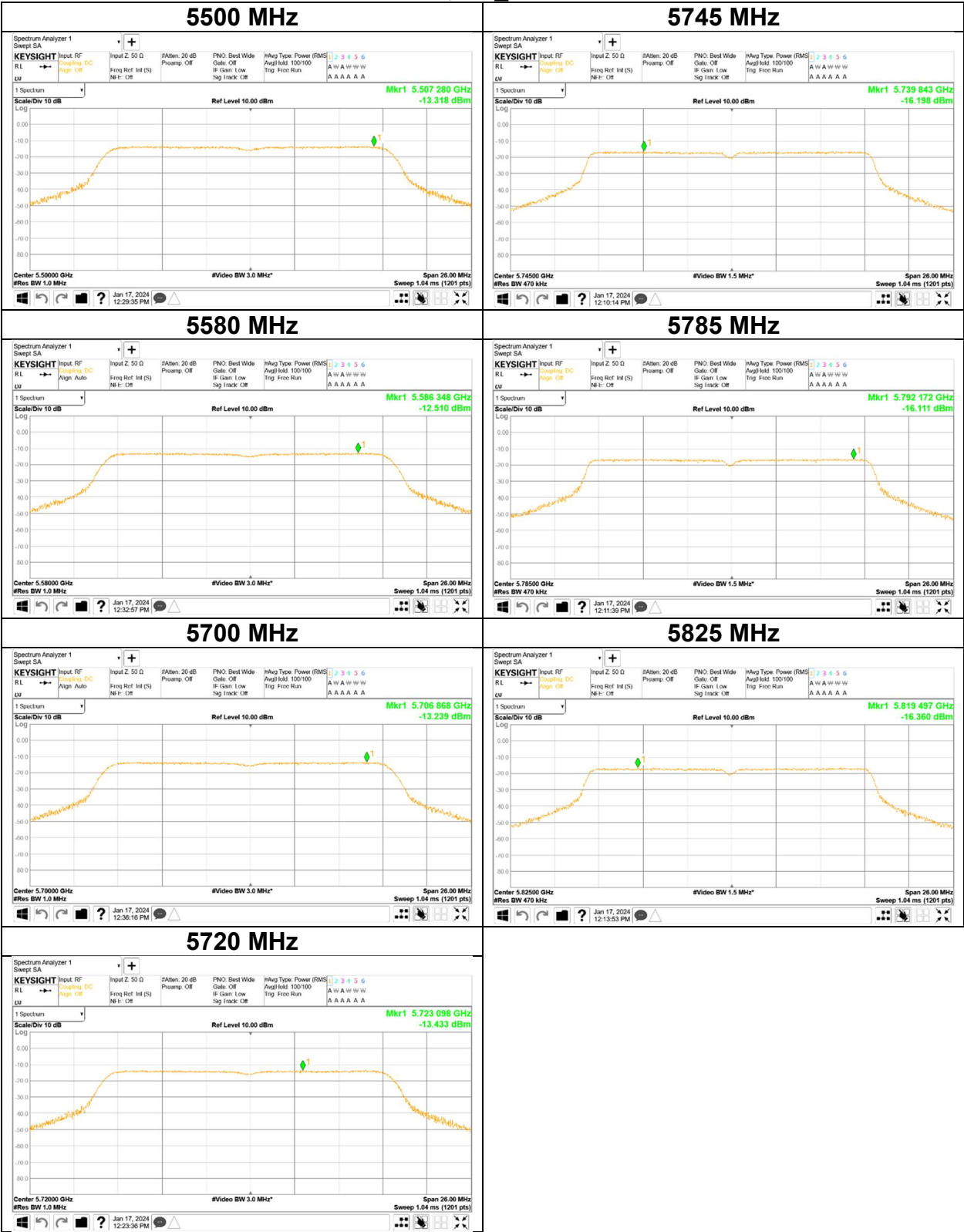
Maximum Power Spectral Density

11a, 5G_CH0



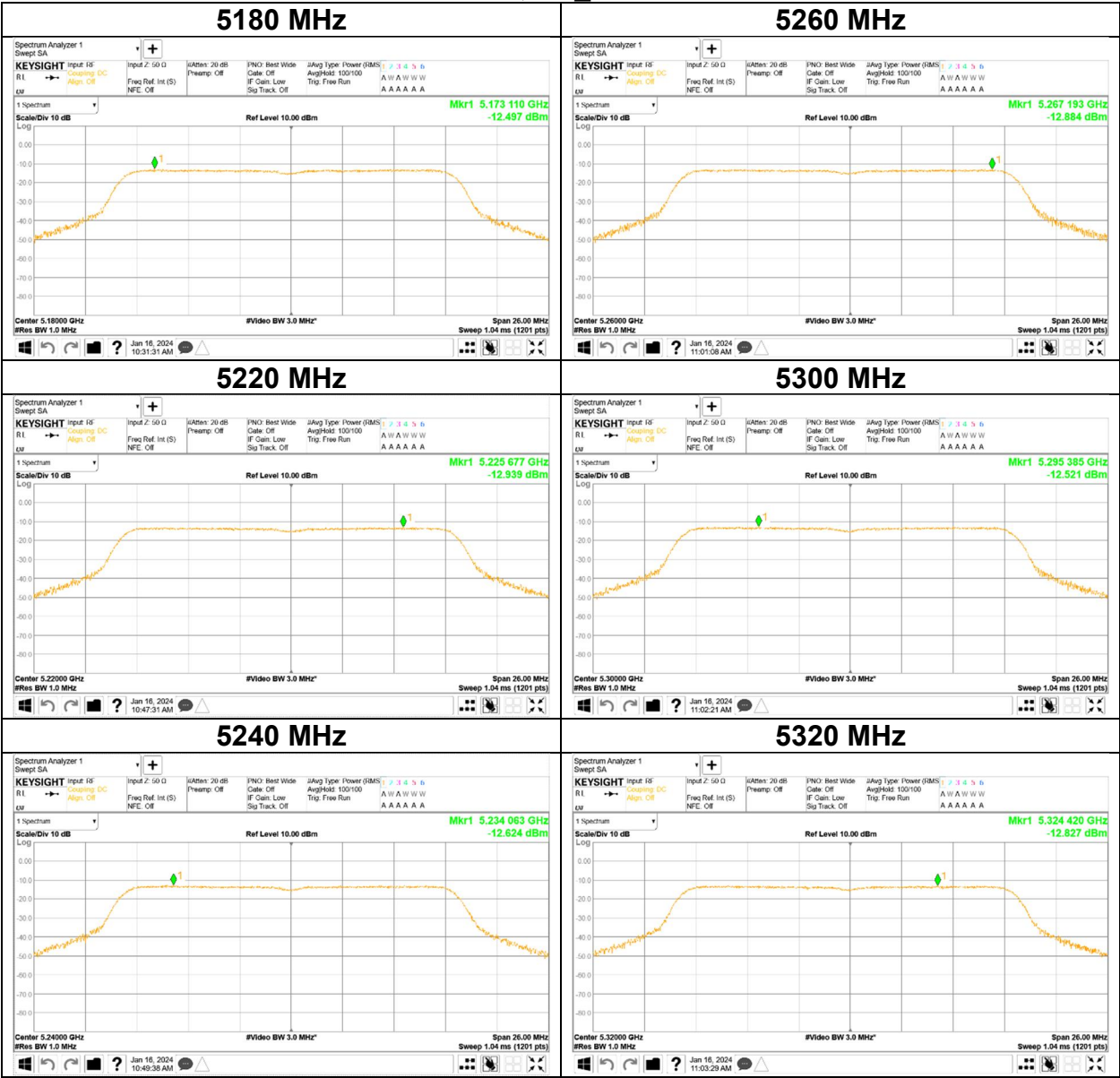
Maximum Power Spectral Density

11a, 5G_CH0



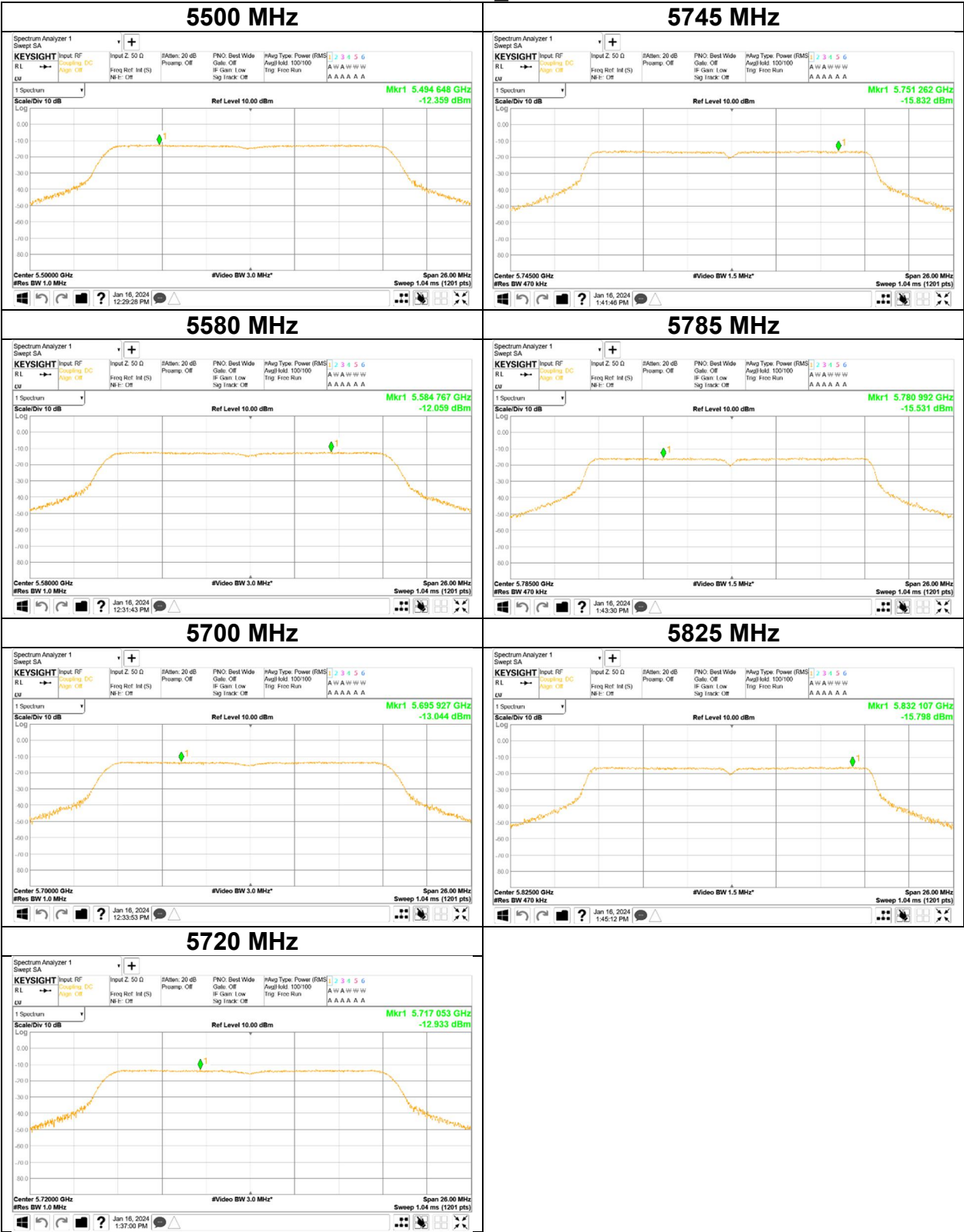
Maximum Power Spectral Density

11a, 5G_CH1



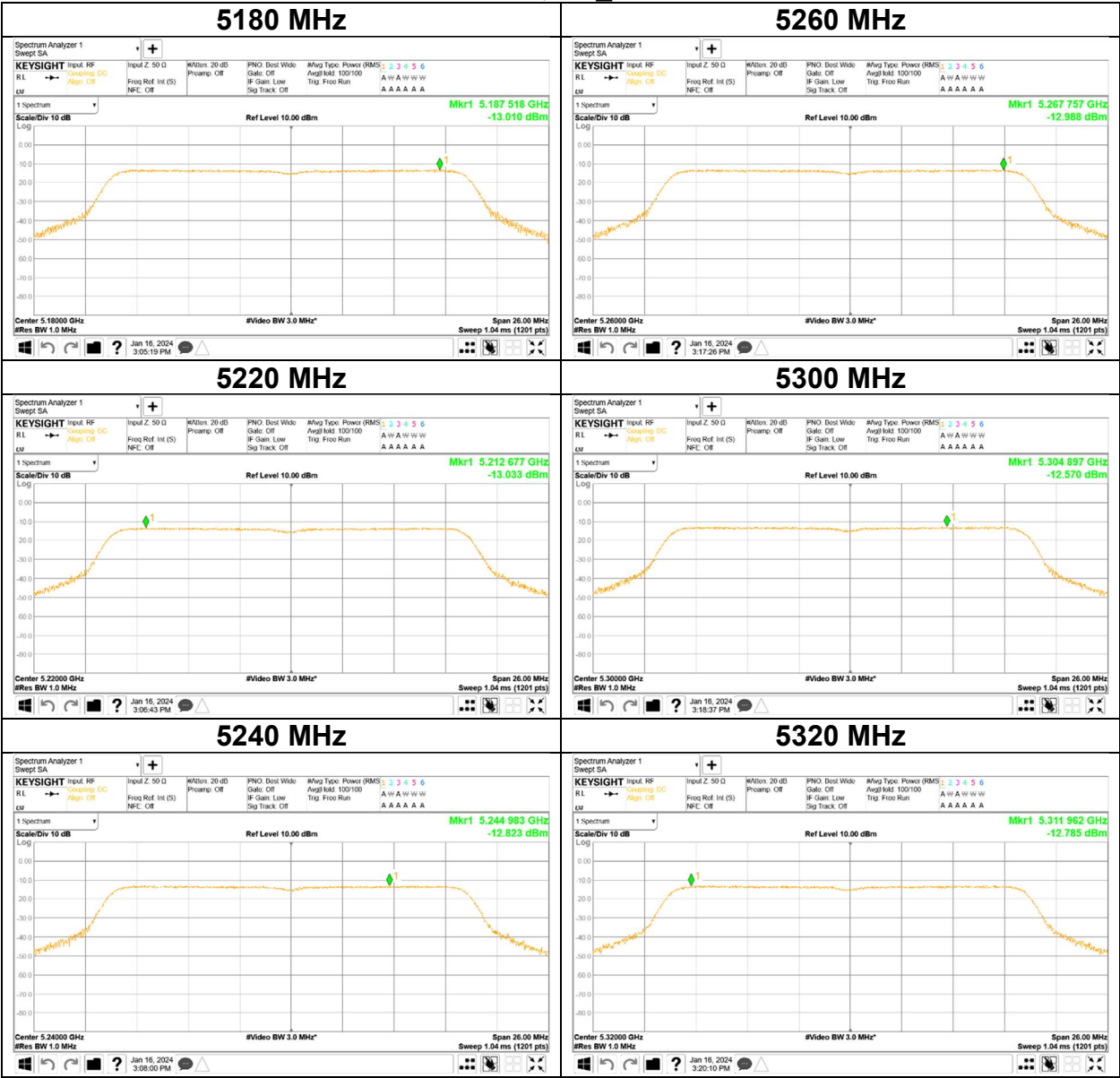
Maximum Power Spectral Density

11a, 5G_CH1



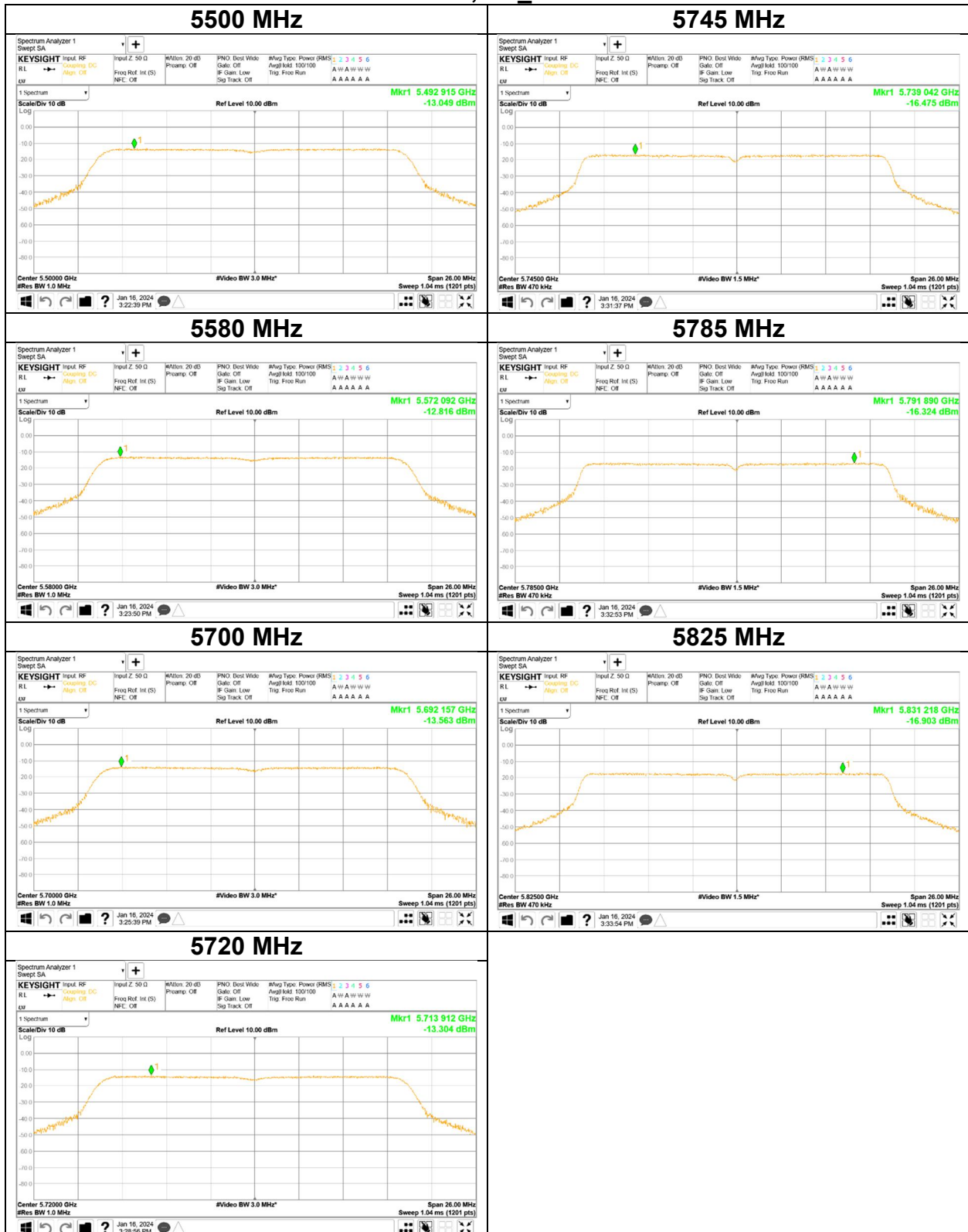
Maximum Power Spectral Density

11n-20, 5G_CH0



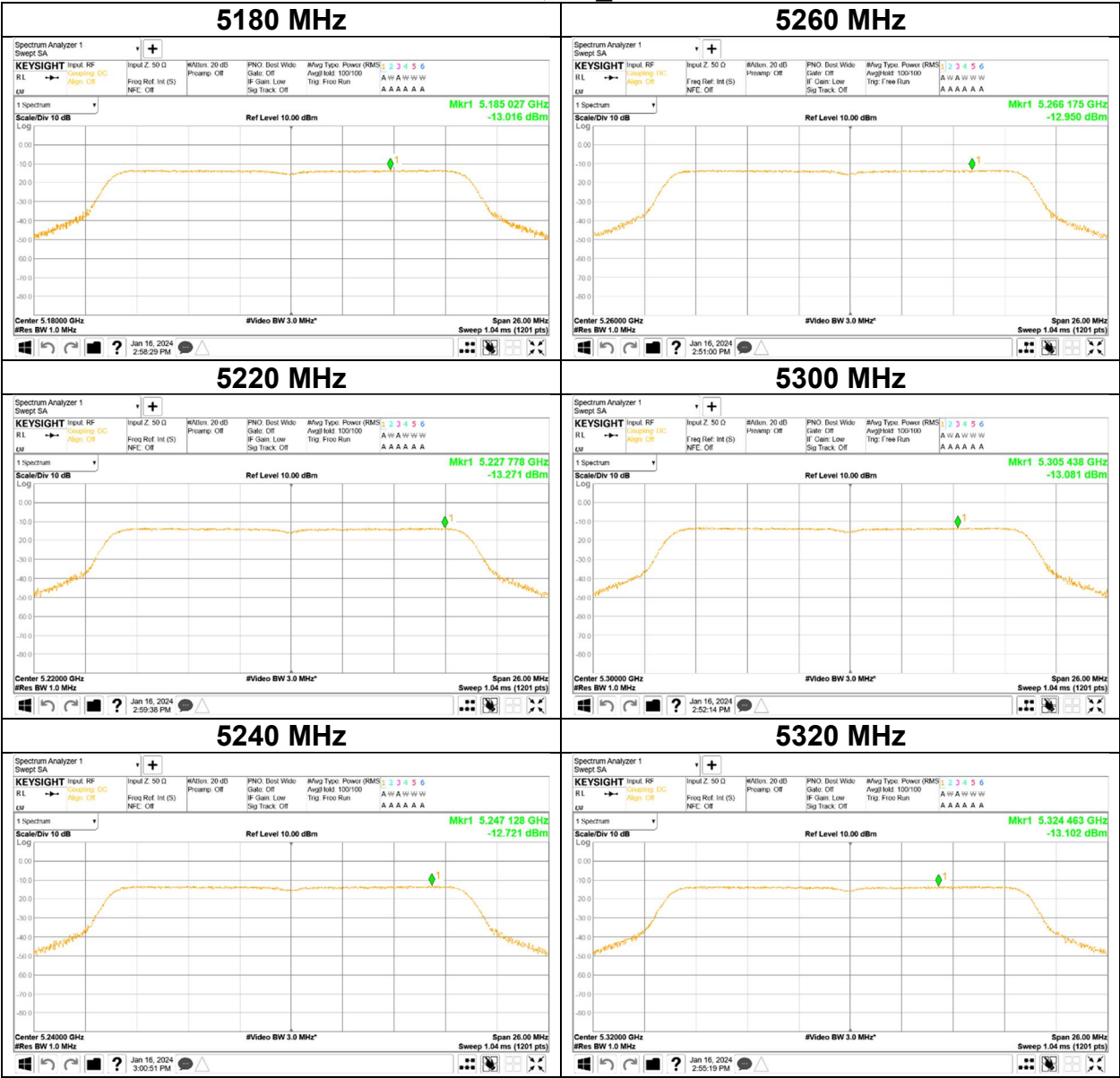
Maximum Power Spectral Density

11n-20, 5G_CH0



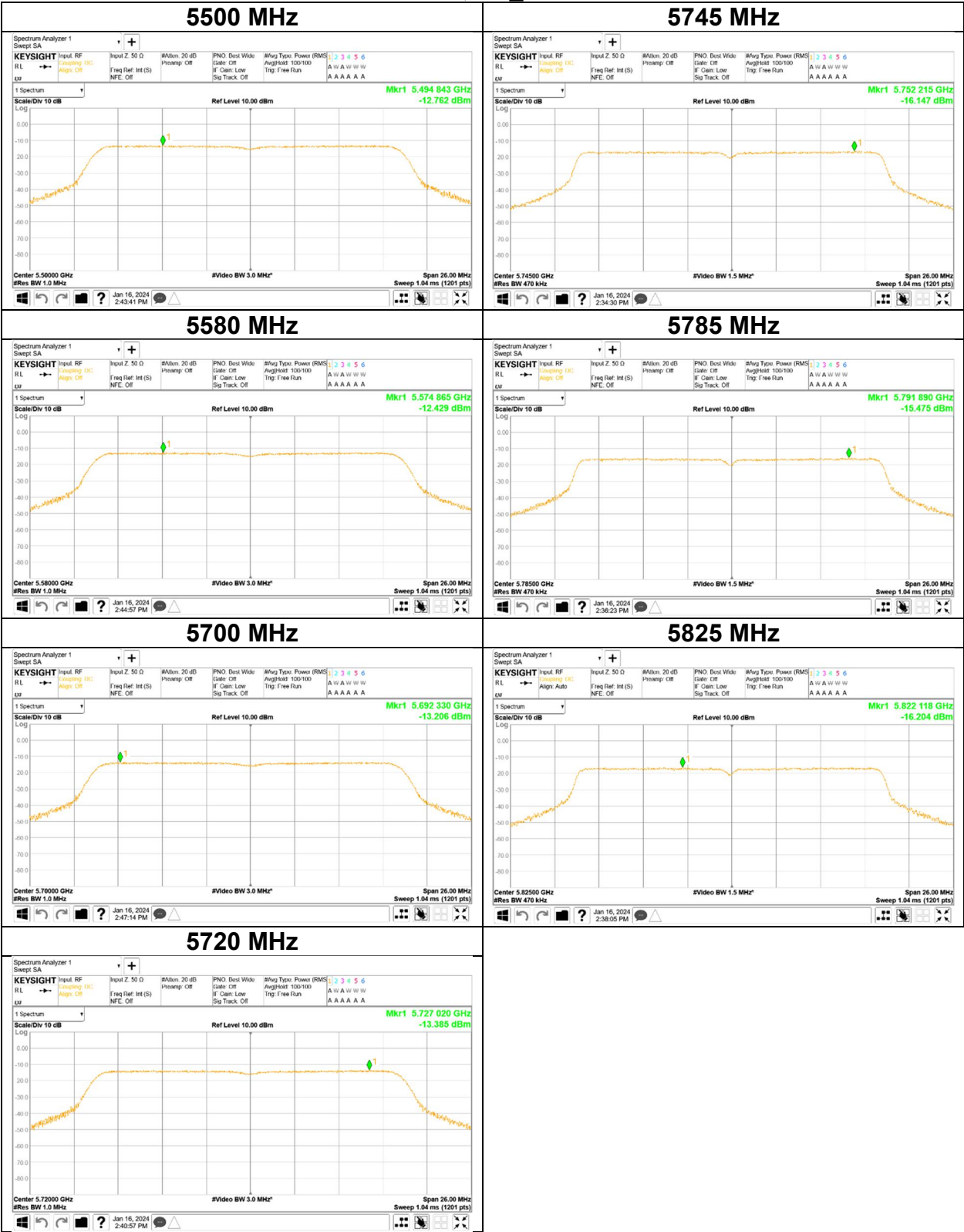
Maximum Power Spectral Density

11n-20, 5G_CH1



Maximum Power Spectral Density

11n-20, 5G_CH 1



Maximum Power Spectral Density

11ac-20, 5G_CH 0

