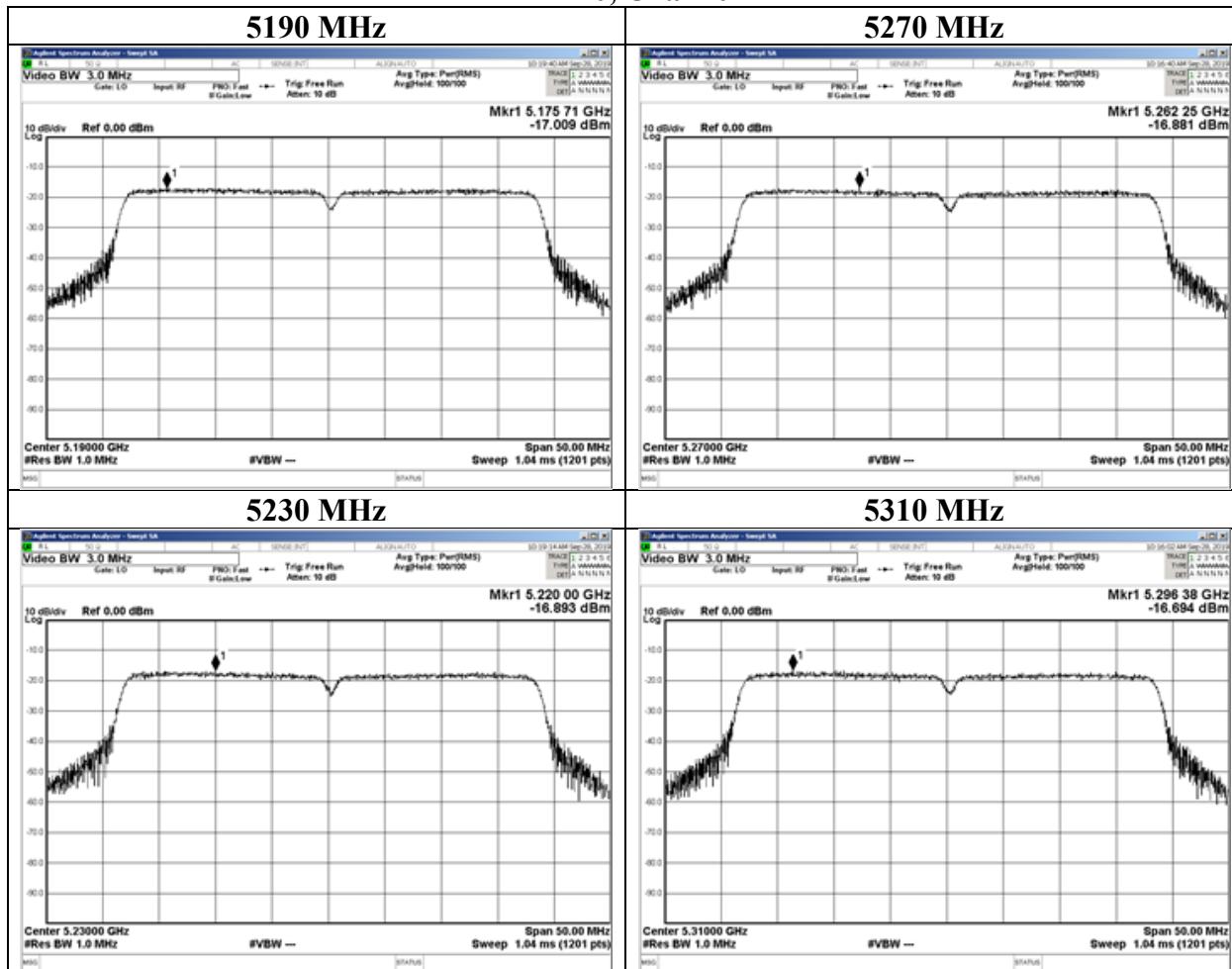


## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. A-7)

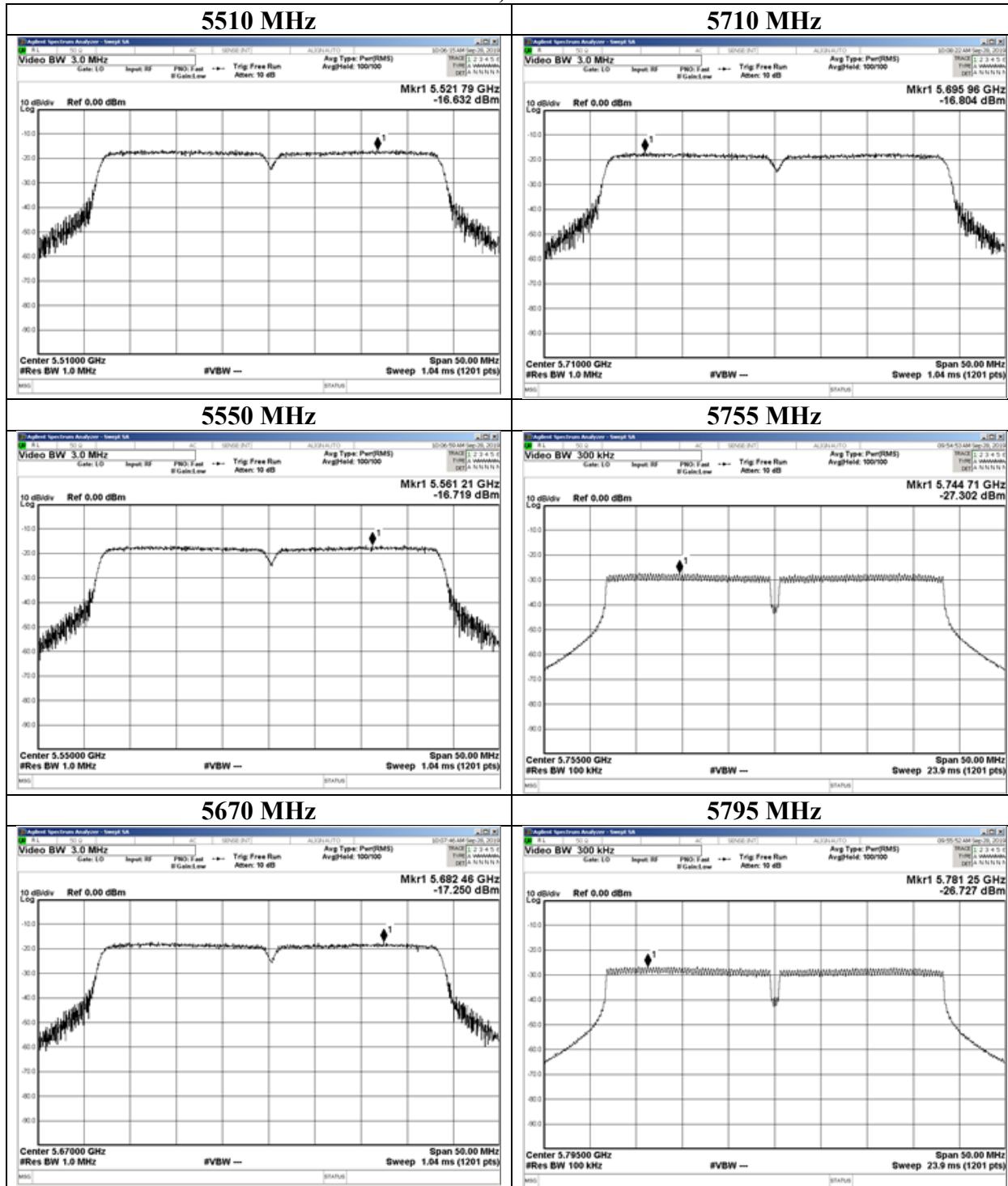
### 11n-40, Chain 0



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. A-7)

### 11n-40, Chain 0



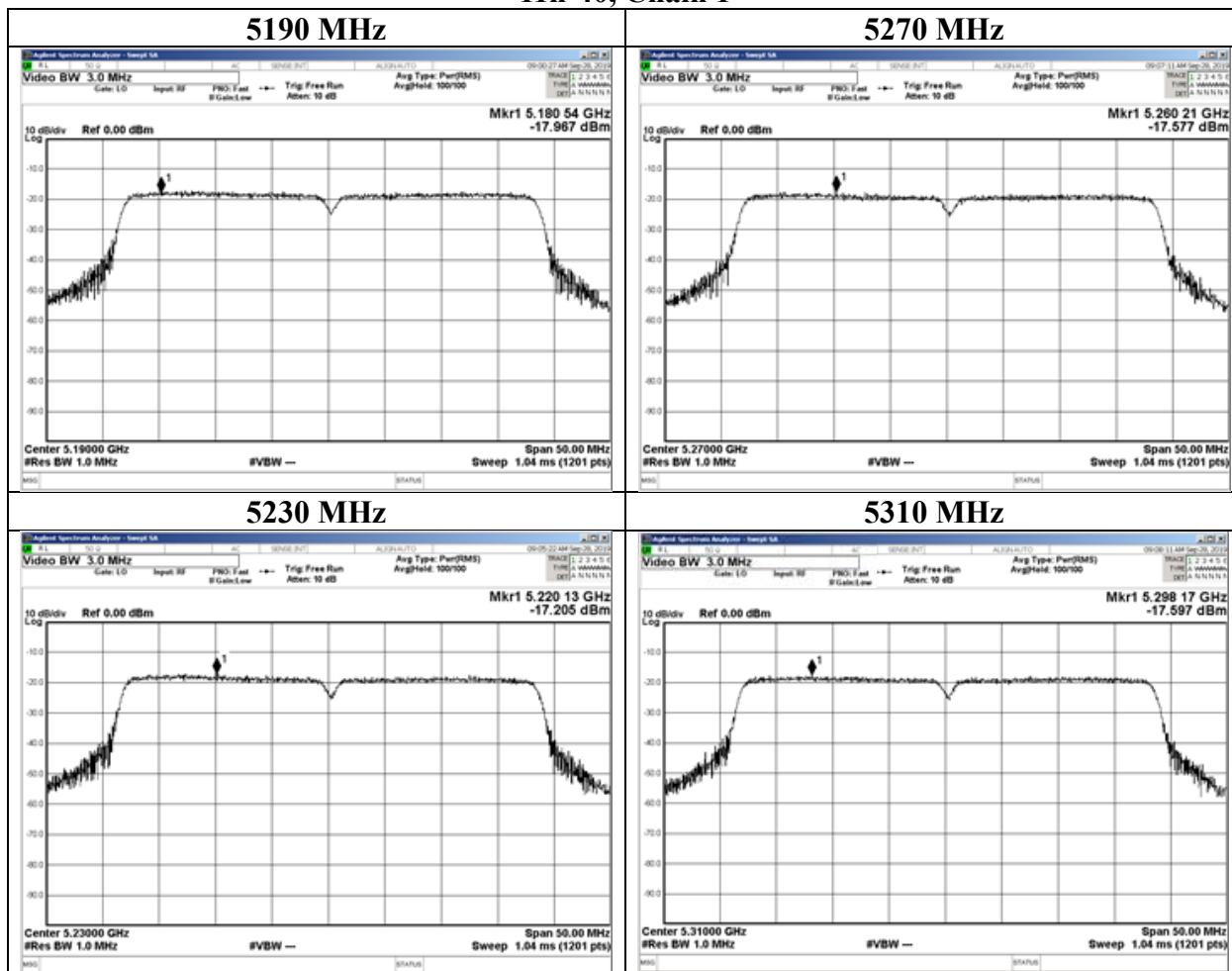
**UL Japan, Inc.**  
**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
 Facsimile : +81 463 50 6401

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. A-7)

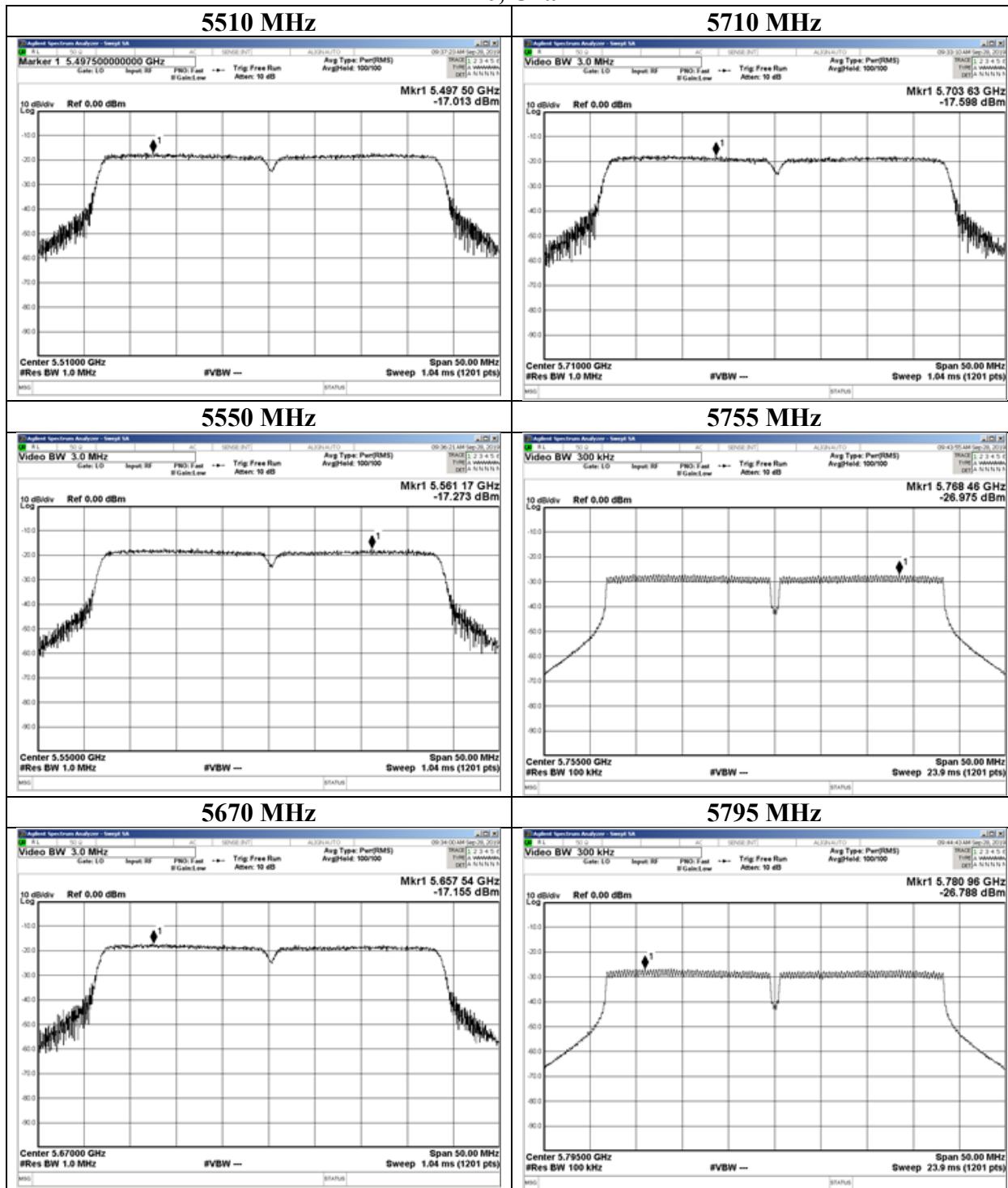
### 11n-40, Chain 1



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. A-7)

### 11n-40, Chain 1



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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. B-5)

Tested Frequency [MHz]	MIMO PSD (Conducted)					Applied limit: 15.407, mobile and portable client device PSD (e.i.r.p.)				
	Antenna		Result	Limit	Margin	Antenna		Result	Limit	Margin
	Chain 0 [mW/MHz]	Chain 1 [mW/MHz]				Chain 0 [mW/MHz]	Chain 1 [mW/MHz]			
	[dB]	[dB]	[mW/MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[mW/MHz]	[dBm/MHz]	[dB]
5190	0.48	0.46	0.94	-0.25	11.00	11.25	0.62	0.72	1.34	1.27
5230	0.47	0.45	0.92	-0.36	11.00	11.36	0.60	0.70	1.31	1.16
5270	0.42	0.43	0.85	-0.69	11.00	11.69	0.53	0.68	1.22	0.85
5310	0.45	0.47	0.91	-0.40	11.00	11.40	0.57	0.73	1.30	1.15
5510	0.42	0.46	0.89	-0.51	11.00	11.51	0.54	0.73	1.27	1.05
5550	0.48	0.52	0.99	-0.02	11.00	11.02	0.60	0.82	1.42	1.53
5670	0.44	0.50	0.94	-0.29	11.00	11.29	0.56	0.79	1.34	1.28
5710	0.44	0.48	0.92	-0.34	11.00	11.34	0.56	0.76	1.32	1.21
5755	0.27	0.28	0.56	-2.55	30.00	32.55	0.35	0.45	0.79	-1.00
5795	0.27	0.28	0.56	-2.54	30.00	32.54	0.35	0.45	0.80	-1.00

Tested Frequency [MHz]	Chain 0					Chain 1				
	Duty Factor [dB]	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]	PSD Reading [dB]	Cable Loss [dB]
	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]
5190	0.00	0.00	-16.97	3.92	9.90	1.04	-3.15	-2.11	-18.27	4.67
5230	0.00	0.00	-17.08	3.93	9.91	1.04	-3.24	-2.20	-18.40	4.68
5270	0.00	0.00	-17.61	3.94	9.91	1.04	-3.76	-2.72	-18.55	4.70
5310	0.00	0.00	-17.36	3.95	9.91	1.04	-3.50	-2.46	-18.24	4.71
5510	0.00	0.00	-17.64	4.00	9.92	1.04	-3.72	-2.68	-18.35	4.80
5550	0.00	0.00	-17.14	4.00	9.91	1.04	-3.23	-2.19	-17.87	4.80
5670	0.00	0.00	-17.43	3.95	9.90	1.04	-3.58	-2.54	-18.03	4.77
5710	0.00	0.00	-17.32	3.89	9.90	1.04	-3.53	-2.49	-18.13	4.73
5755	0.00	6.99	-26.43	3.90	9.90	1.04	-5.64	-4.60	-27.45	4.74
5795	0.00	6.99	-26.44	3.91	9.89	1.04	-5.65	-4.61	-27.42	4.74

Sample Calculation:

PSD: Power Spectral Density

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

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

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

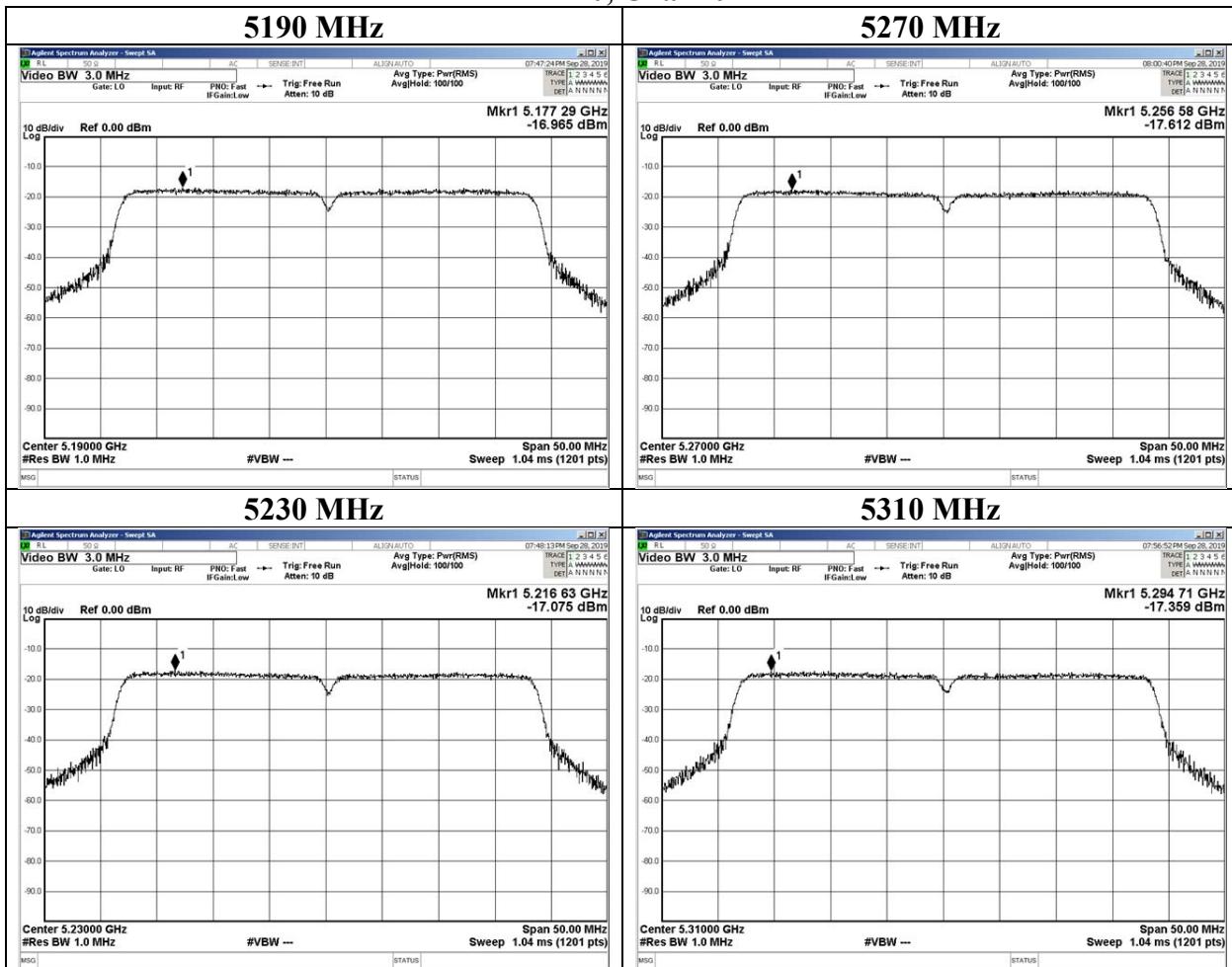
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. B-5)

### 11n-40, Chain 0



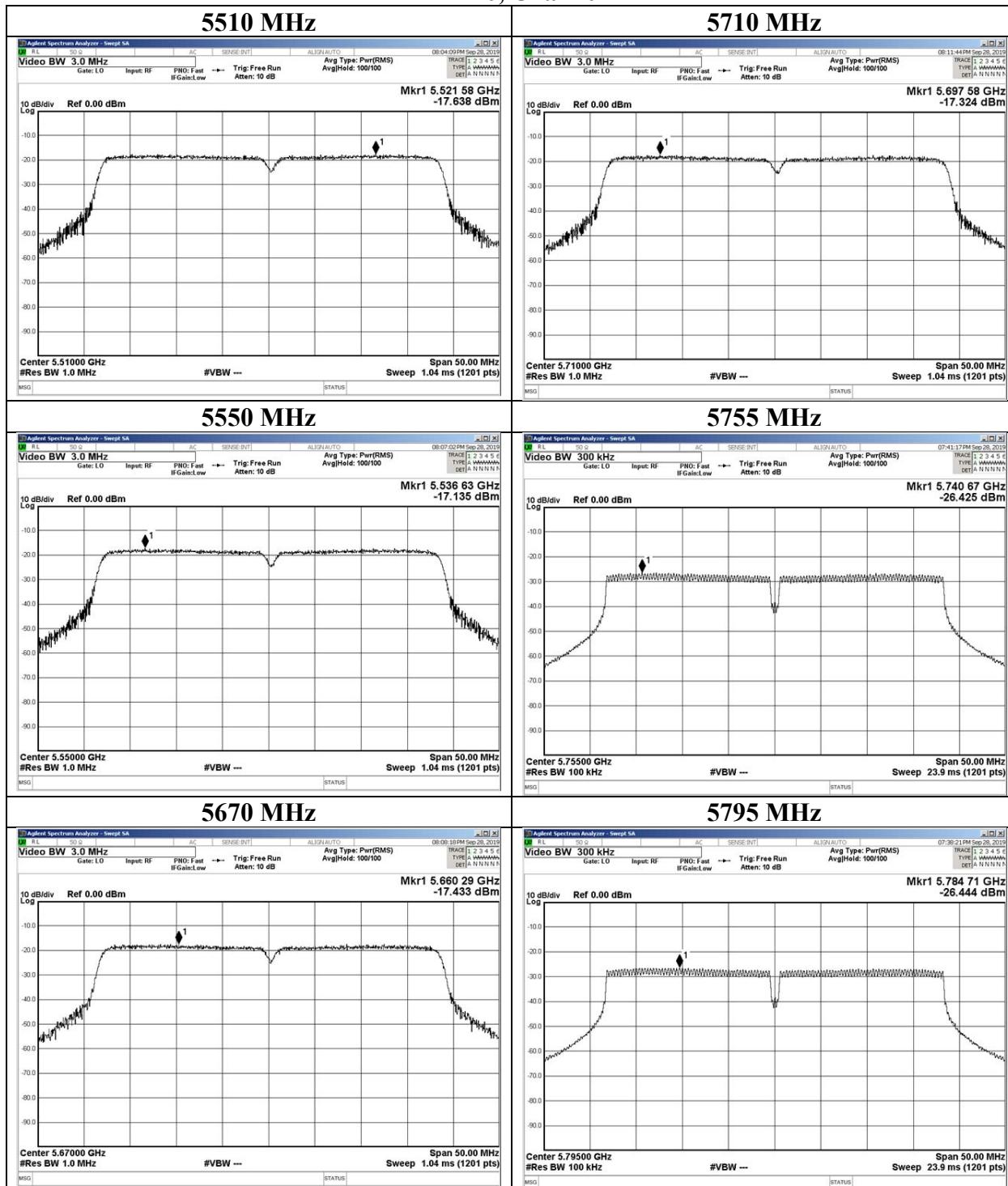
**UL Japan, Inc.  
Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN  
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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. B-5)

### 11n-40, Chain 0



**UL Japan, Inc.**

**Shonan EMC Lab.**

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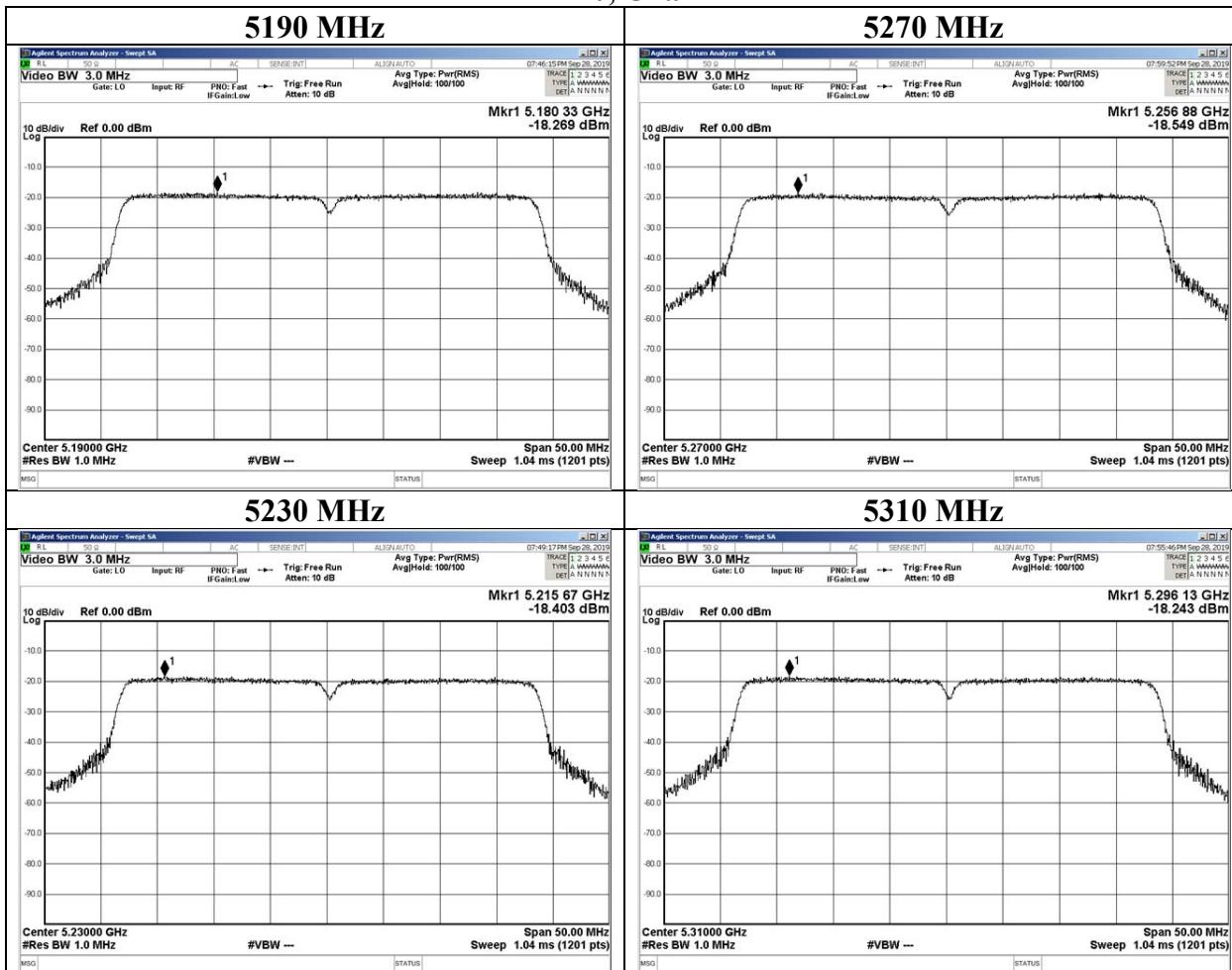
Telephone : +81 463 50 6400

Faxsimile : +81 463 50 6401

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. B-5)

### 11n-40, Chain 1



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**Shonan EMC Lab.**

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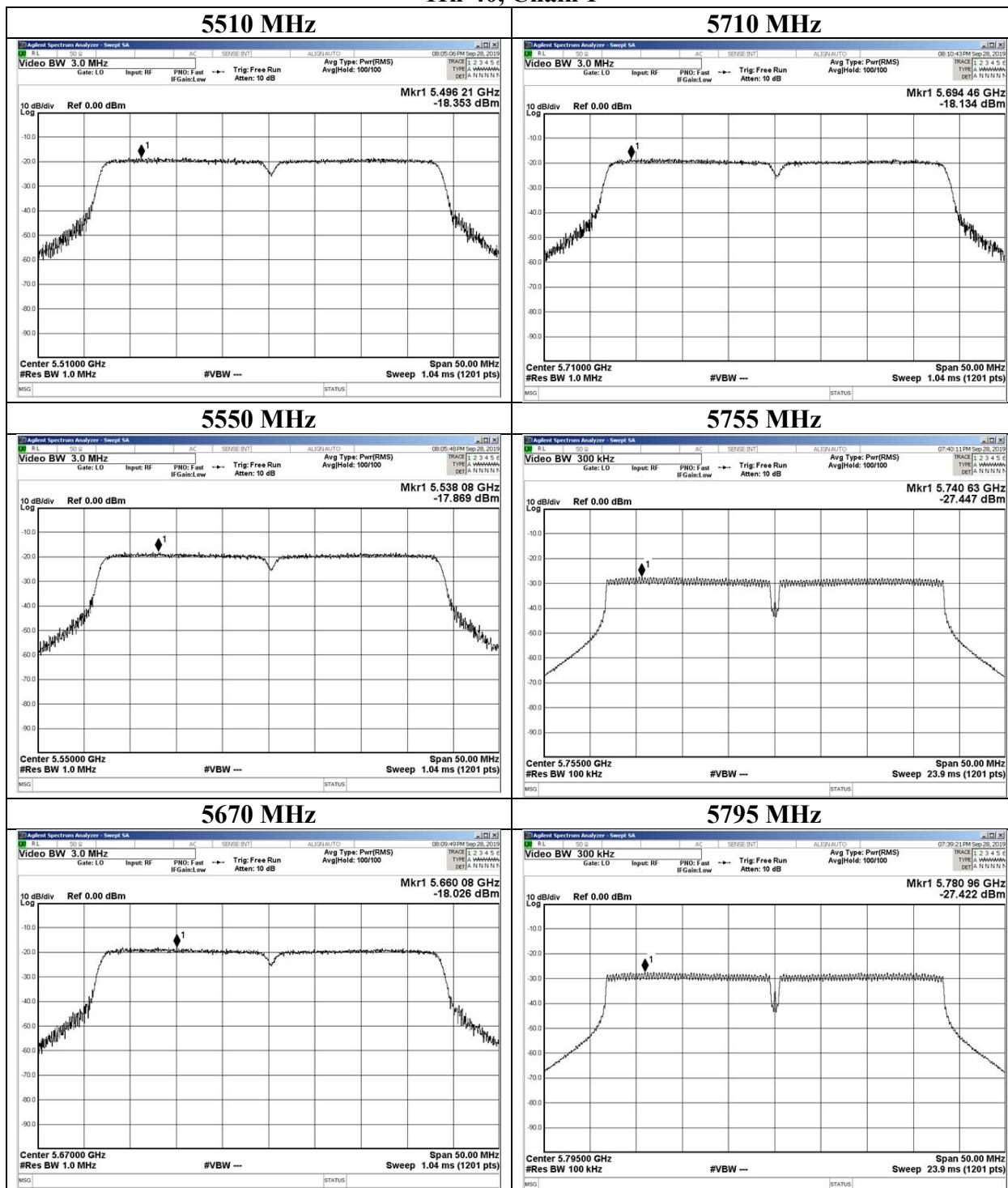
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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11n-40 (MIMO), (serial no. B-5)

### 11n-40, Chain 1



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Faxsimile : +81 463 50 6401

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. A-7)

Tested Frequency [MHz]	CDD					Applied limit: 15.407, mobile and portable client device						
	PSD (Conducted)					PSD (e.i.r.p.)						
	Antenna Chain 0	Antenna Chain 1	Sum	Result	Limit	Margin	Antenna Chain 0	Antenna Chain 1	Sum	Result	Limit	Margin
[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	0.49	0.50	1.00	-0.01	11.00	11.01	1.26	1.28	2.54	4.04	17.00	12.96
5230	0.47	0.51	0.98	-0.08	11.00	11.08	1.21	1.29	2.50	3.97	17.00	13.03
5270	0.48	0.44	0.92	-0.35	11.00	11.35	1.23	1.11	2.34	3.70	17.00	13.30
5310	0.54	0.50	1.03	0.14	11.00	10.86	1.37	1.26	2.63	4.19	17.00	12.81
5510	0.60	0.56	1.16	0.65	11.00	10.35	1.53	1.42	2.95	4.70	17.00	12.30
5550	0.55	0.50	1.05	0.21	11.00	10.79	1.39	1.28	2.67	4.26	17.00	12.74
5670	0.46	0.56	1.02	0.09	11.00	10.91	1.17	1.43	2.59	4.14	17.00	12.86
5710	0.48	0.48	0.96	-0.19	11.00	11.19	1.22	1.21	2.43	3.86	17.00	13.14
5755	0.23	0.28	0.51	-2.94	30.00	32.94	0.58	0.71	1.29	1.11	36.00	34.89
5795	0.26	0.29	0.56	-2.55	30.00	32.55	0.67	0.75	1.41	1.50	36.00	34.50

Tested Frequency [MHz]	Chain 0					Chain 1								
	Duty Factor	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]
	[dB]	[dB]	[dBmMHz]	[dB]	[dB]	[dBi]	[dBmMHz]	[dBmMHz]	[dBmMHz]	[dB]	[dB]	[dBi]	[dBmMHz]	[dBmMHz]
5190	0.00	0.00	-16.88	3.92	9.90	4.05	-3.06	0.99	-17.21	4.02	10.21	4.05	-2.98	1.07
5230	0.00	0.00	-17.08	3.93	9.91	4.05	-3.24	0.81	-17.18	4.03	10.21	4.05	-2.94	1.11
5270	0.00	0.00	-17.00	3.94	9.91	4.05	-3.15	0.90	-17.85	4.05	10.21	4.05	-3.59	0.46
5310	0.00	0.00	-16.55	3.95	9.91	4.05	-2.69	1.36	-17.32	4.06	10.21	4.05	-3.05	1.00
5510	0.00	0.00	-16.12	4.00	9.92	4.05	-2.20	1.85	-16.89	4.15	10.22	4.05	-2.52	1.53
5550	0.00	0.00	-16.53	4.00	9.91	4.05	-2.62	1.43	-17.36	4.15	10.22	4.05	-2.99	1.06
5670	0.00	0.00	-17.23	3.95	9.90	4.05	-3.38	0.67	-16.86	4.12	10.23	4.05	-2.51	1.54
5710	0.00	0.00	-16.97	3.89	9.90	4.05	-3.18	0.87	-17.53	4.08	10.23	4.05	-3.22	0.83
5755	0.00	6.99	-27.20	3.90	9.90	4.05	-6.41	-2.36	-26.86	4.09	10.24	4.05	-5.54	-1.49
5795	0.00	6.99	-26.61	3.91	9.89	4.05	-5.82	-1.77	-26.64	4.09	10.24	4.05	-5.32	-1.27

**Sample Calculation:**

PSD: Power Spectral Density

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

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

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

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

Directional Gain = G ANT + Array Gain

G ANT = Set equal to the gain of the antenna having the highest gain

Array Gain = 10 log(N ANT/N SS) dB.

N ANT = number of transmit antennas = 2

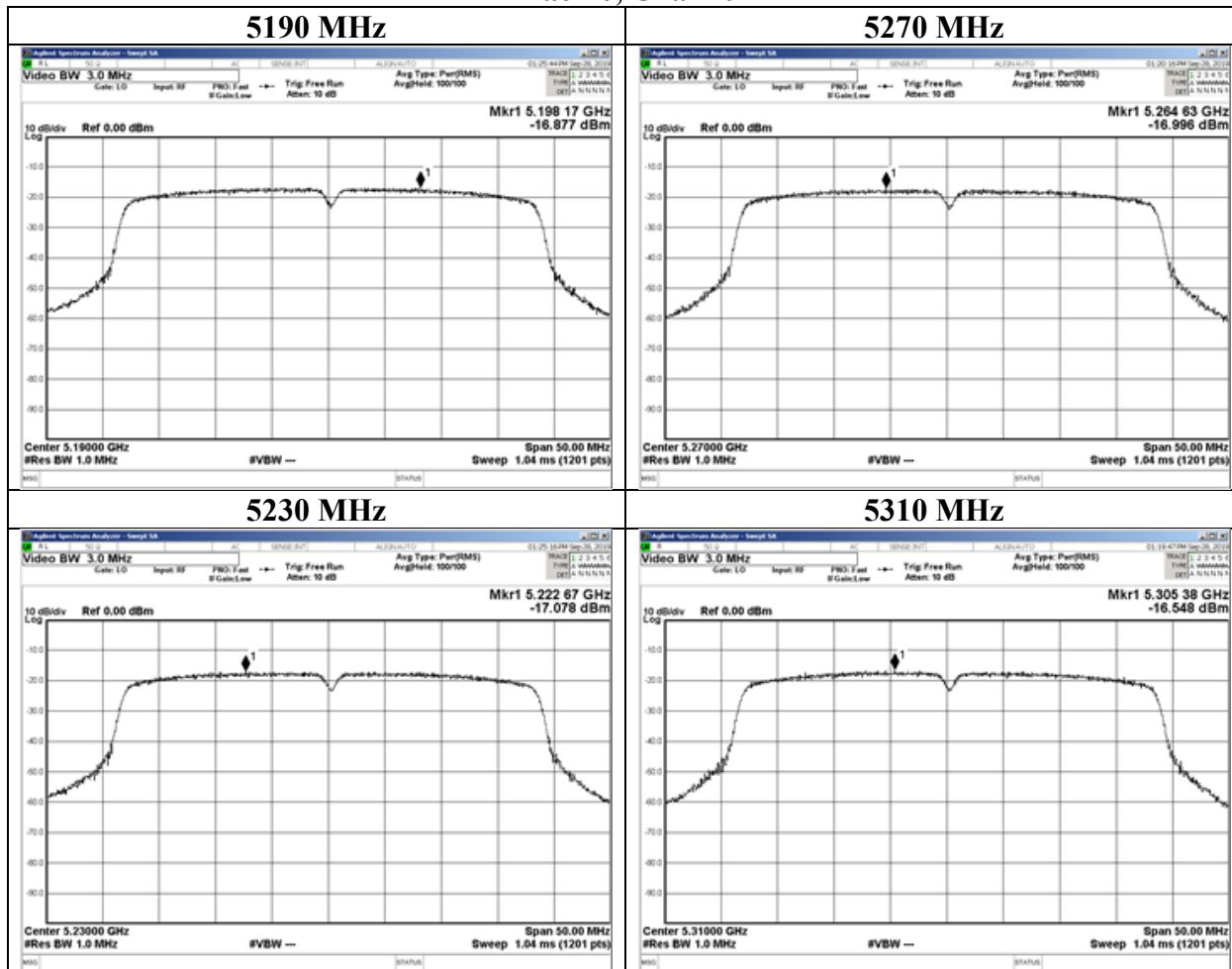
N SS = number of spatial streams = 1

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. A-7)

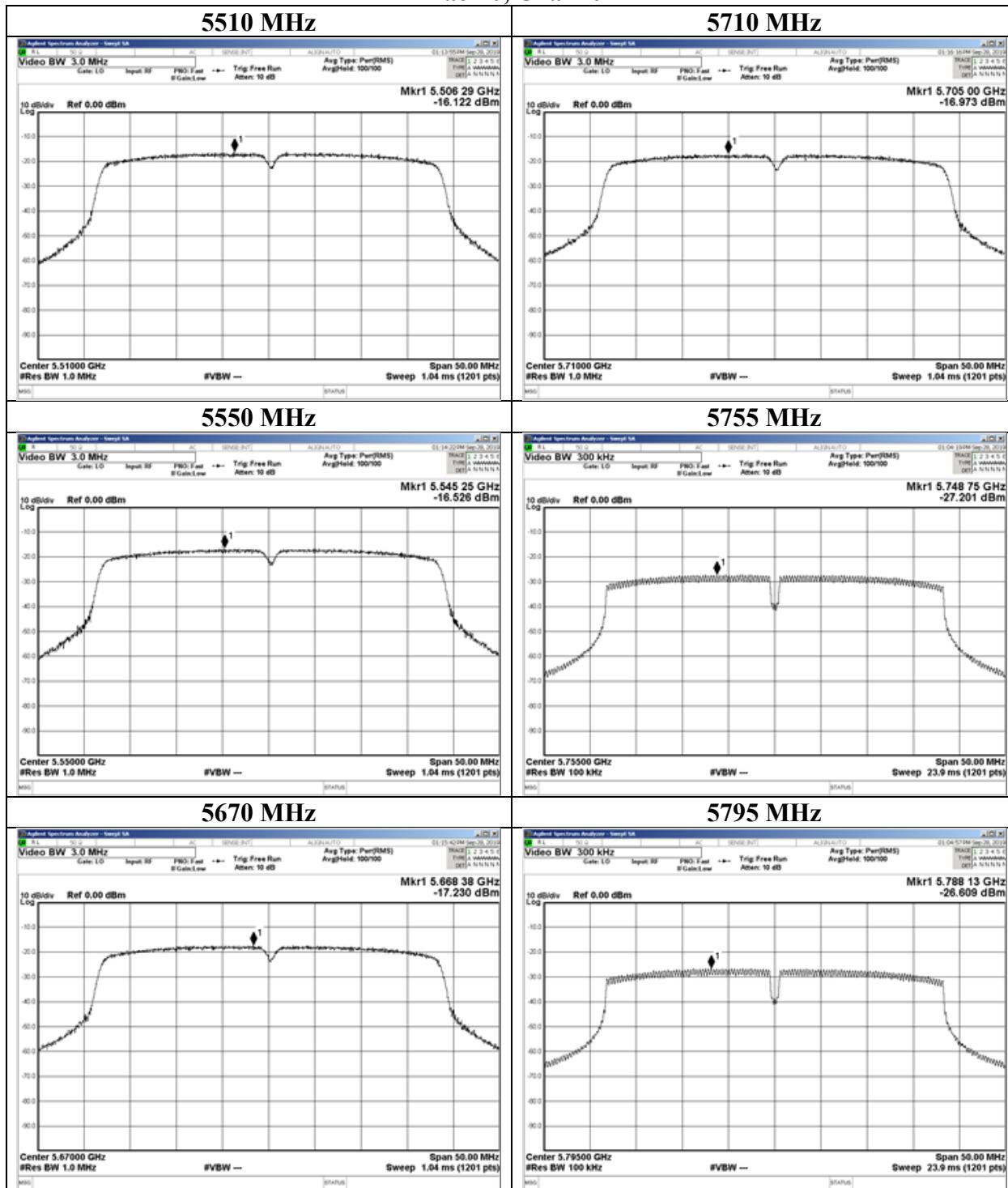
### 11ac-40, Chain 0



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. A-7)

### 11ac-40, Chain 0



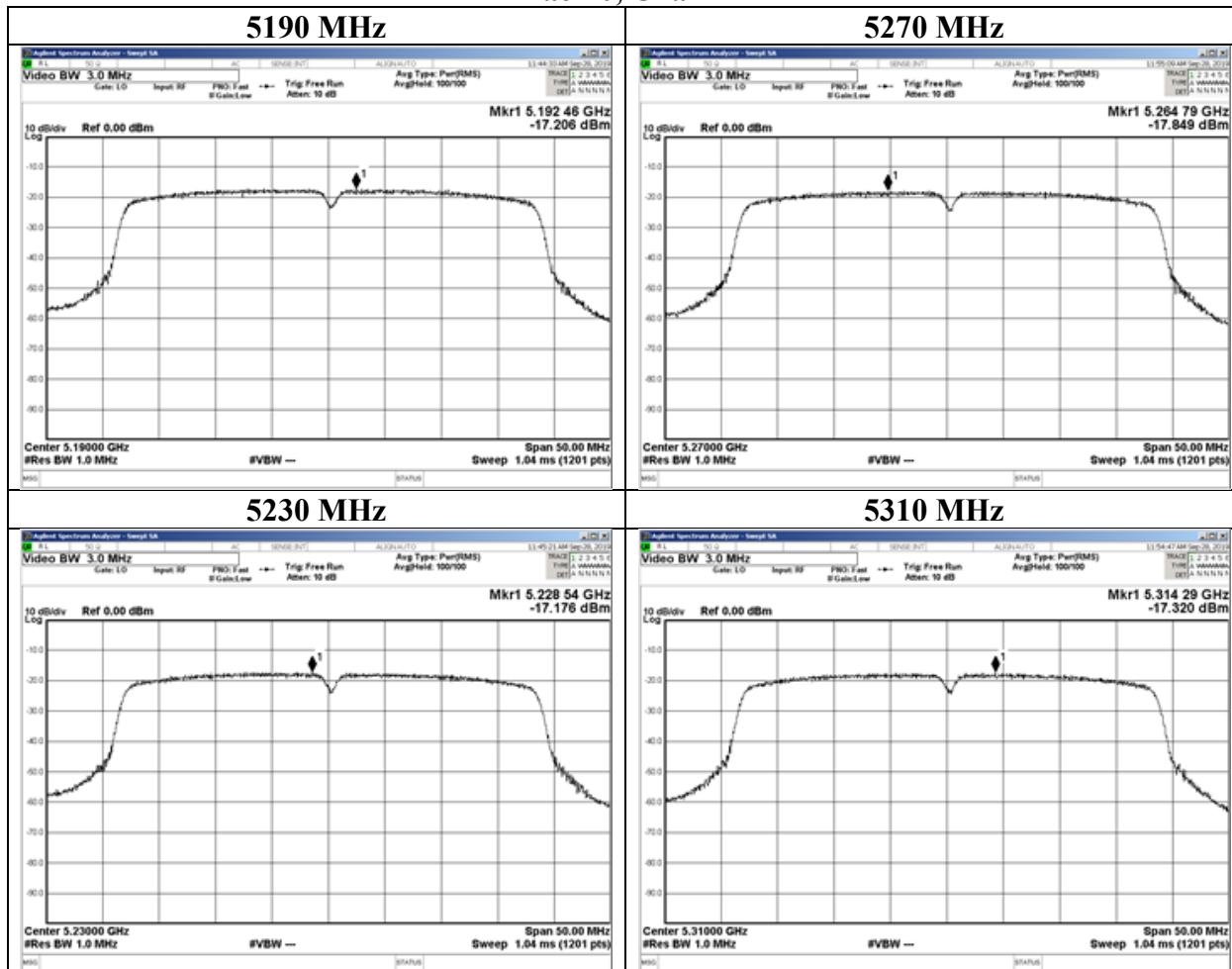
**UL Japan, Inc.**  
**Shonan EMC Lab.**

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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. A-7)

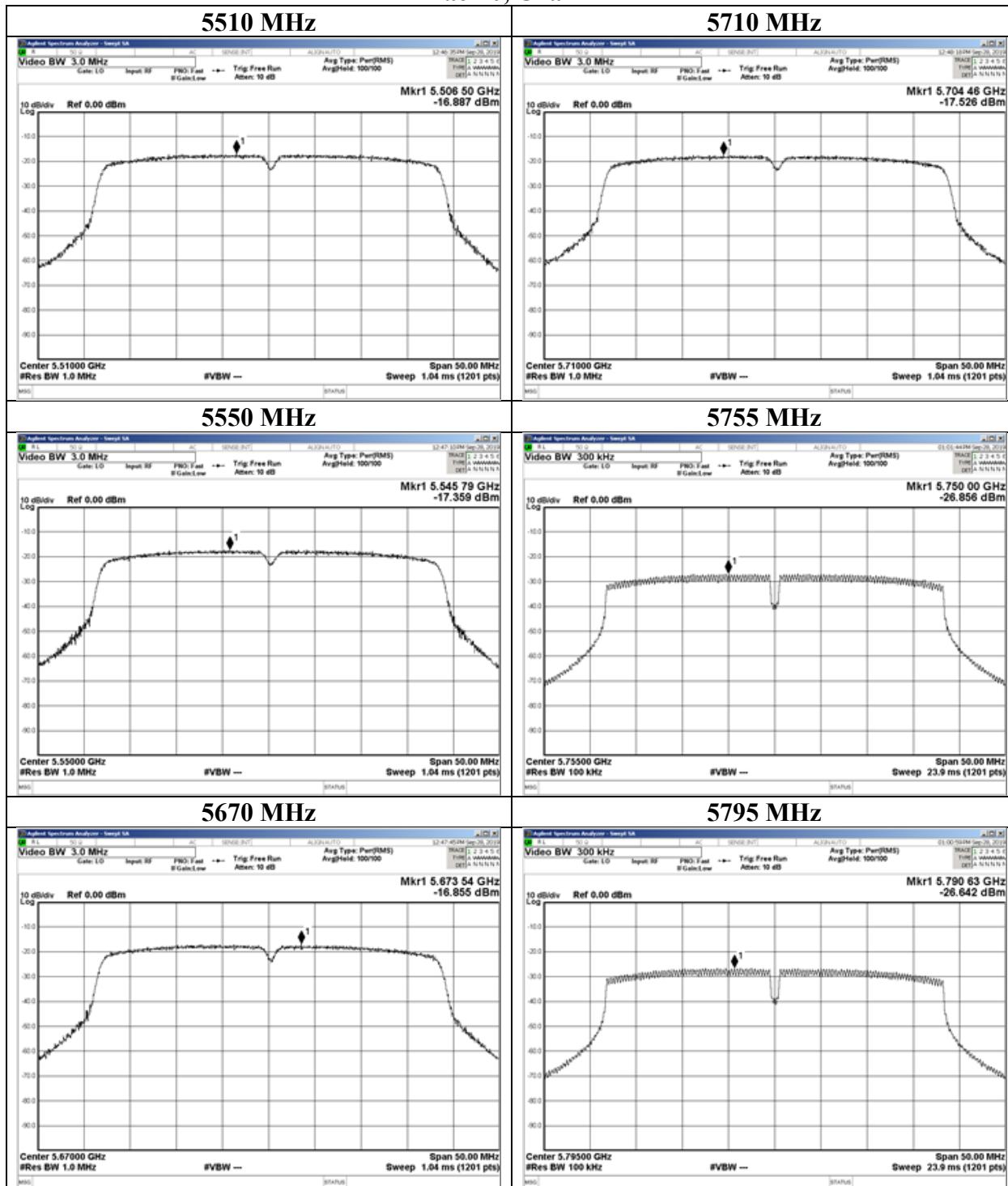
### 11ac-40, Chain 1



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. A-7)

### 11ac-40, Chain 1



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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. B-5)

Tested Frequency [MHz]	CDD					Applied limit: 15.407, mobile and portable client device						
	PSD (Conducted)					PSD (e.i.r.p.)						
	Antenna Chain 0	Antenna Chain 1	Sum	Result	Limit	Margin	Antenna Chain 0	Antenna Chain 1	Sum	Result	Limit	Margin
[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	0.51	0.45	0.95	-0.22	11.00	11.22	1.59	1.40	3.00	4.77	17.00	12.23
5230	0.50	0.45	0.95	-0.24	11.00	11.24	1.57	1.41	2.99	4.75	17.00	12.25
5270	0.41	0.42	0.83	-0.81	11.00	11.81	1.30	1.32	2.62	4.18	17.00	12.82
5310	0.46	0.44	0.90	-0.44	11.00	11.44	1.46	1.39	2.85	4.55	17.00	12.45
5510	0.43	0.47	0.90	-0.45	11.00	11.45	1.36	1.48	2.84	4.54	17.00	12.46
5550	0.50	0.48	0.98	-0.07	11.00	11.07	1.58	1.53	3.11	4.92	17.00	12.08
5670	0.43	0.47	0.90	-0.46	11.00	11.46	1.36	1.48	2.84	4.53	17.00	12.47
5710	0.43	0.48	0.91	-0.43	11.00	11.43	1.35	1.51	2.86	4.56	17.00	12.44
5755	0.27	0.28	0.55	-2.61	30.00	32.61	0.84	0.89	1.73	2.38	36.00	33.62
5795	0.26	0.31	0.57	-2.46	30.00	32.46	0.82	0.97	1.79	2.53	36.00	33.47

Tested Frequency [MHz]	Chain 0						Chain 1							
	Duty Factor	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]
	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]
5190	0.00	0.00	-16.78	3.92	9.90	4.99	-2.96	2.03	-18.39	4.67	10.21	4.99	-3.51	1.48
5230	0.00	0.00	-16.86	3.93	9.91	4.99	-3.02	1.97	-18.39	4.68	10.21	4.99	-3.50	1.50
5270	0.00	0.00	-17.72	3.94	9.91	4.99	-3.87	1.12	-18.69	4.70	10.21	4.99	-3.78	1.21
5310	0.00	0.00	-17.21	3.95	9.91	4.99	-3.35	1.64	-18.47	4.71	10.21	4.99	-3.55	1.44
5510	0.00	0.00	-17.57	4.00	9.92	4.99	-3.65	1.35	-18.31	4.80	10.22	4.99	-3.29	1.70
5550	0.00	0.00	-16.92	4.00	9.91	4.99	-3.01	1.98	-18.17	4.80	10.22	4.99	-3.15	1.84
5670	0.00	0.00	-17.51	3.95	9.90	4.99	-3.66	1.33	-18.30	4.77	10.23	4.99	-3.30	1.70
5710	0.00	0.00	-17.48	3.89	9.90	4.99	-3.69	1.30	-18.16	4.73	10.23	4.99	-3.20	1.79
5755	0.00	6.99	-26.53	3.90	9.90	4.99	-5.74	-0.75	-27.47	4.74	10.24	4.99	-5.50	-0.51
5795	0.00	6.99	-26.62	3.91	9.89	4.99	-5.83	-0.84	-27.11	4.74	10.24	4.99	-5.14	-0.15

**Sample Calculation:**

PSD: Power Spectral Density

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

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

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

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

Directional Gain = G ANT + Array Gain

G ANT = Set equal to the gain of the antenna having the highest gain

Array Gain = 10 log(N ANT/N SS) dB.

N ANT = number of transmit antennas = 2

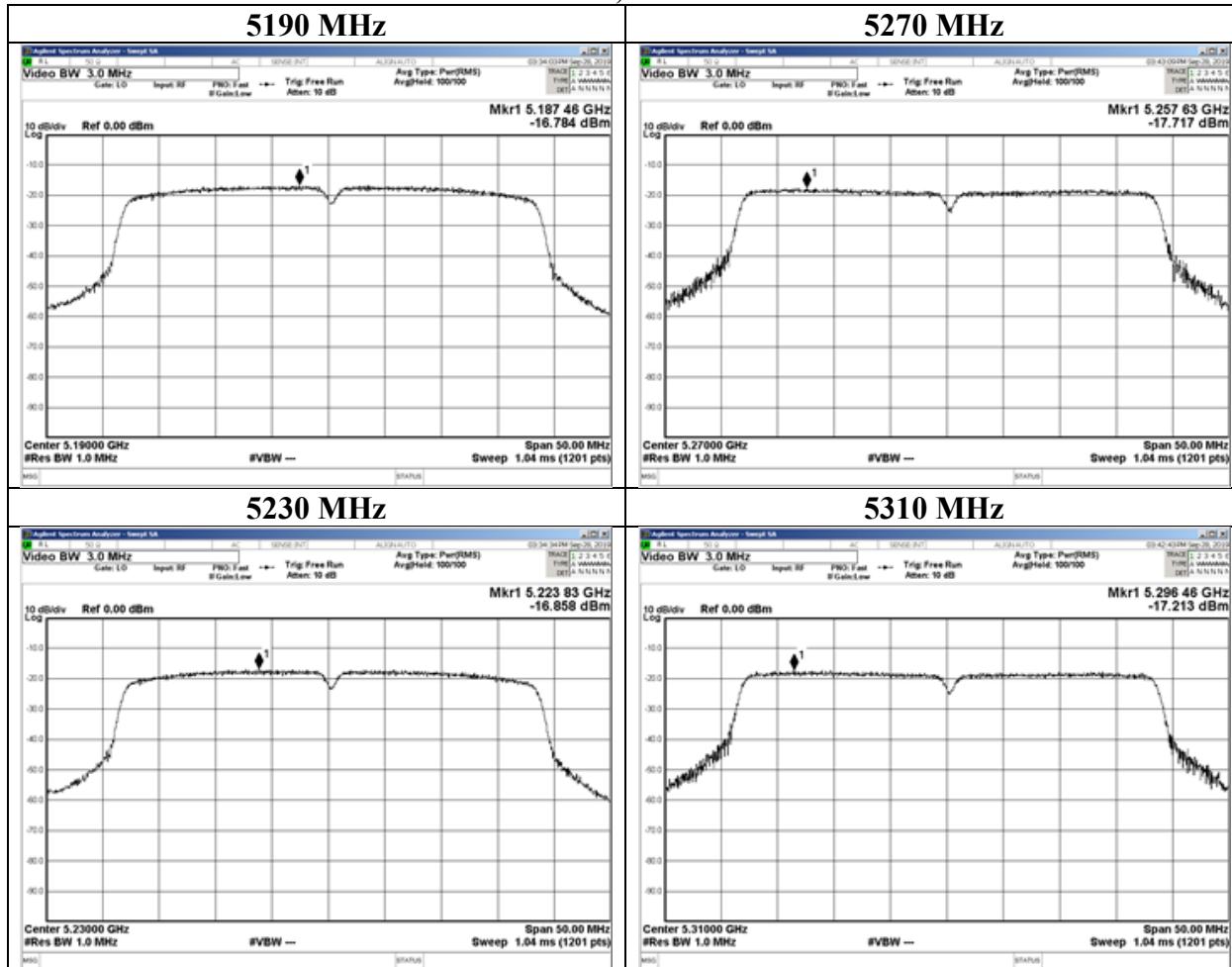
N SS = number of spatial streams = 1

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. B-5)

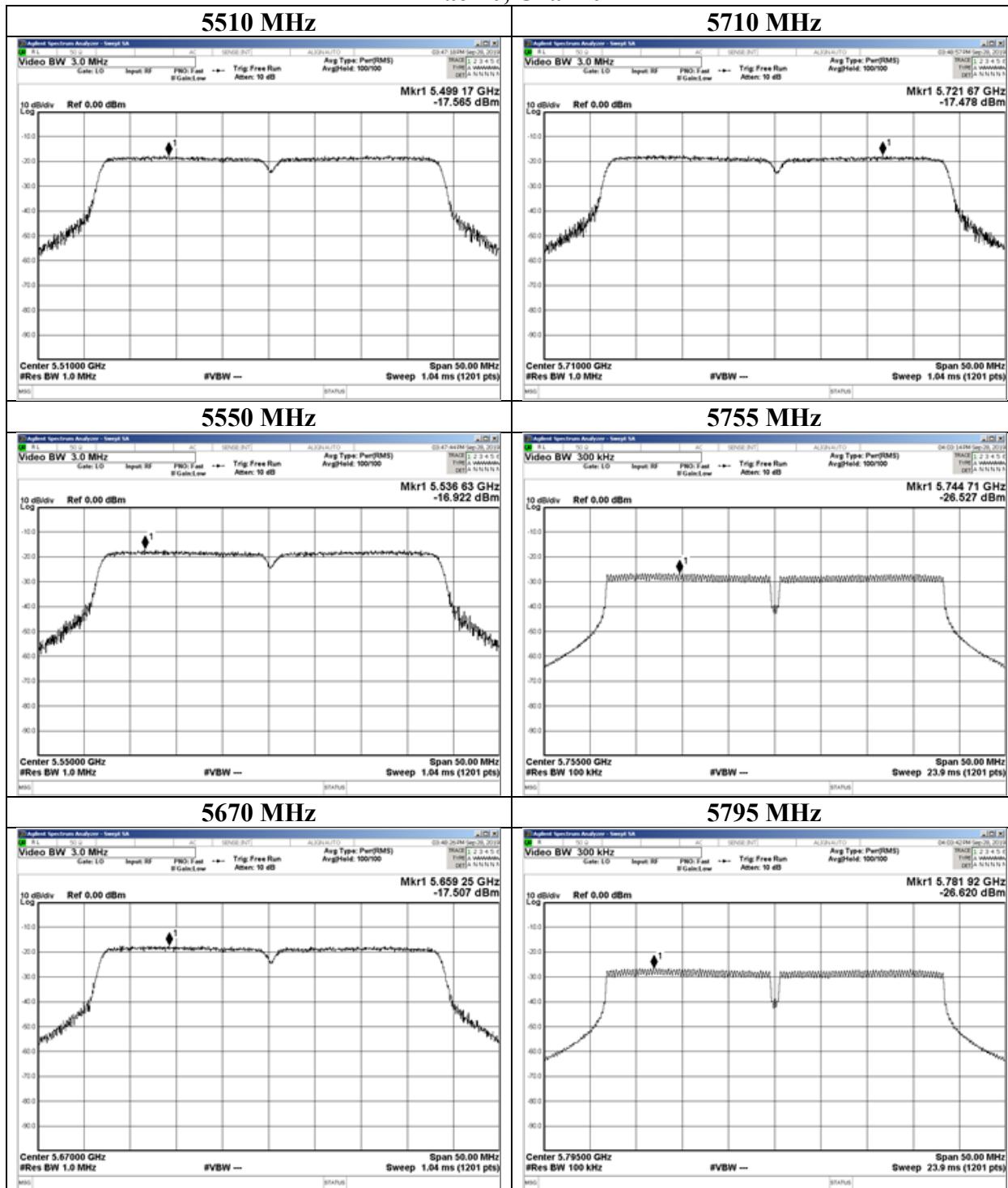
### 11ac-40, Chain 0



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. B-5)

### 11ac-40, Chain 0



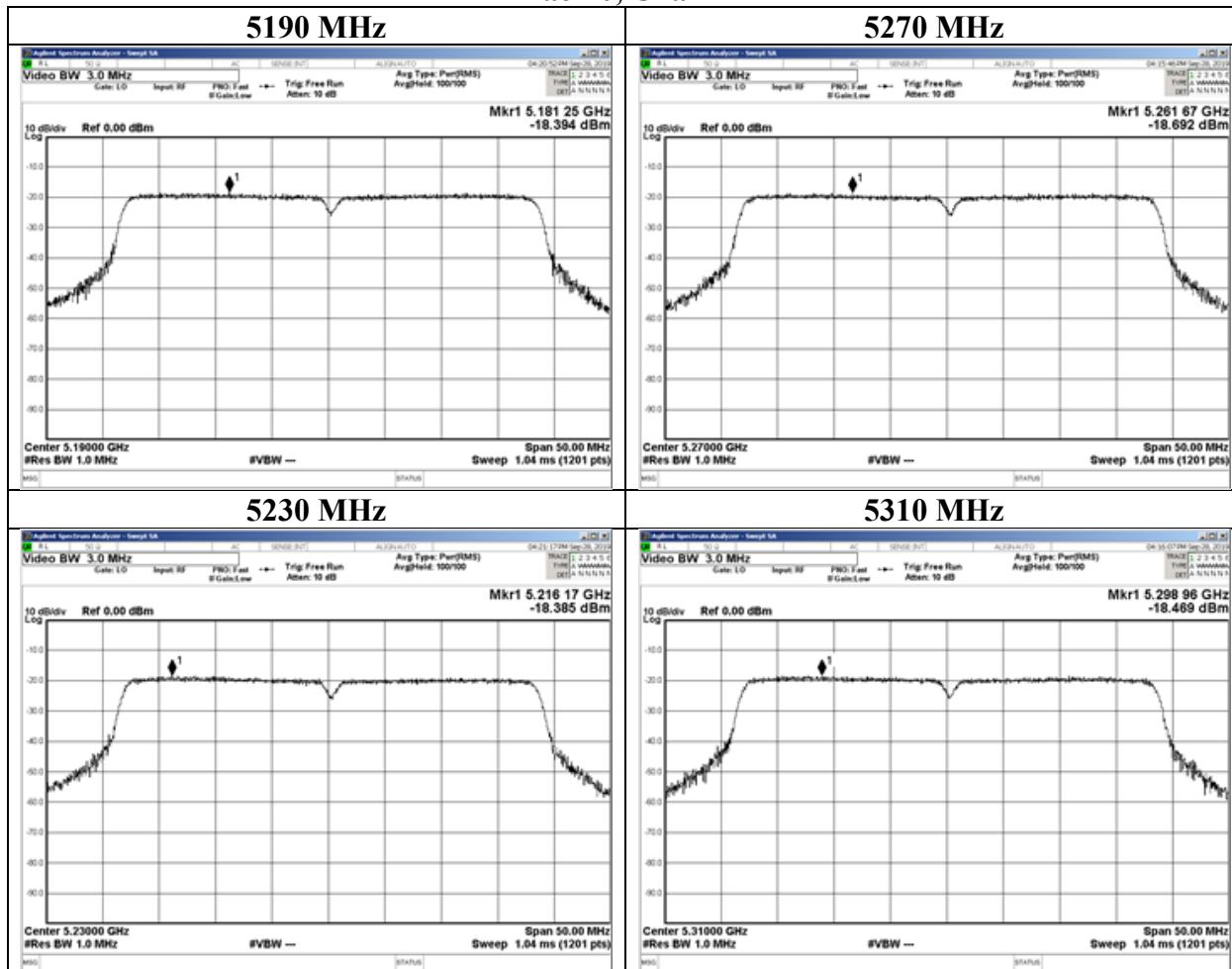
**UL Japan, Inc.**  
**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
 Facsimile : +81 463 50 6401

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. B-5)

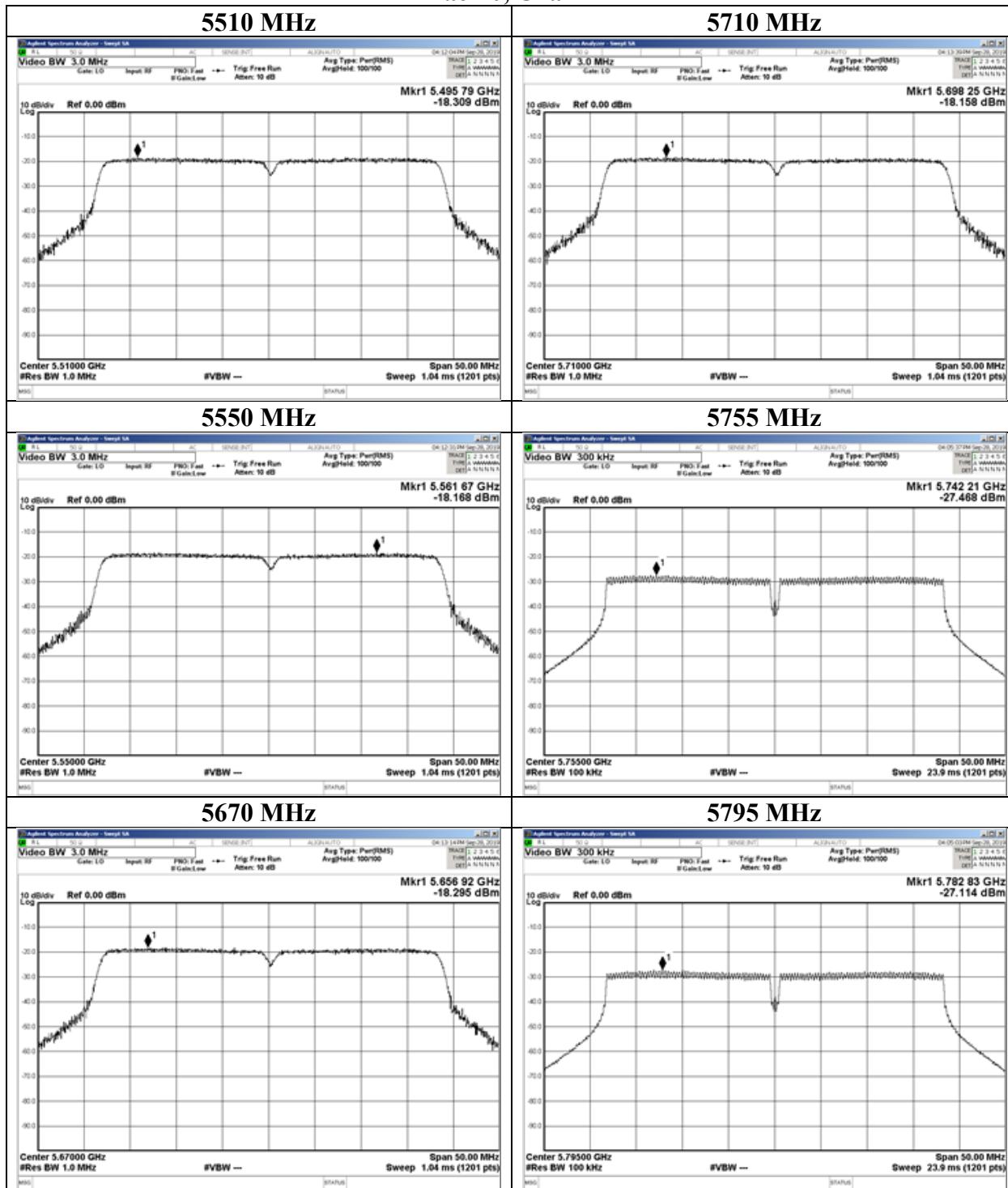
### 11ac-40, Chain 1



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (CDD), (serial no. B-5)

### 11ac-40, Chain 1



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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. A-7)

Tested Frequency [MHz]	MIMO					Applied limit: 15.407, mobile and portable client device						
	PSD (Conducted)					PSD (e.i.r.p.)						
	Antenna Chain 0 [mW/MHz]	Antenna Chain 1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna Chain 0 [mW/MHz]	Antenna Chain 1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	
5190	0.50	0.50	1.00	0.02	11.00	10.98	0.64	0.64	1.28	1.06	17.00	15.94
5230	0.48	0.51	0.99	-0.05	11.00	11.05	0.61	0.65	1.26	0.99	17.00	16.01
5270	0.44	0.42	0.86	-0.65	11.00	11.65	0.56	0.54	1.09	0.39	17.00	16.61
5310	0.47	0.44	0.91	-0.39	11.00	11.39	0.60	0.56	1.16	0.65	17.00	16.35
5510	0.50	0.51	1.01	0.04	11.00	10.96	0.64	0.65	1.28	1.08	17.00	15.92
5550	0.54	0.49	1.03	0.13	11.00	10.87	0.69	0.62	1.31	1.17	17.00	15.83
5670	0.42	0.51	0.94	-0.29	11.00	11.29	0.54	0.65	1.19	0.75	17.00	16.25
5710	0.44	0.49	0.93	-0.32	11.00	11.32	0.55	0.63	1.18	0.72	17.00	16.28
5755	0.22	0.25	0.47	-3.24	30.00	33.24	0.28	0.32	0.60	-2.20	36.00	38.20
5795	0.25	0.28	0.54	-2.69	30.00	32.69	0.32	0.36	0.68	-1.65	36.00	37.65

Tested Frequency [MHz]	Chain 0					Chain 1								
	Duty Factor [dB]	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond. e.i.r.p.	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond. e.i.r.p.		
5190	0.00	0.00	-16.83	3.92	9.90	1.04	-3.01	-1.97	-17.21	4.02	10.21	1.04	-2.98	-1.94
5230	0.00	0.00	-17.06	3.93	9.91	1.04	-3.22	-2.18	-17.15	4.03	10.21	1.04	-2.91	-1.87
5270	0.00	0.00	-17.43	3.94	9.91	1.04	-3.58	-2.54	-18.00	4.05	10.21	1.04	-3.74	-2.70
5310	0.00	0.00	-17.10	3.95	9.91	1.04	-3.24	-2.20	-17.84	4.06	10.21	1.04	-3.57	-2.53
5510	0.00	0.00	-16.92	4.00	9.92	1.04	-3.00	-1.96	-17.31	4.15	10.22	1.04	-2.94	-1.90
5550	0.00	0.00	-16.55	4.00	9.91	1.04	-2.64	-1.60	-17.51	4.15	10.22	1.04	-3.14	-2.10
5670	0.00	0.00	-17.59	3.95	9.90	1.04	-3.74	-2.70	-17.25	4.12	10.23	1.04	-2.90	-1.86
5710	0.00	0.00	-17.39	3.89	9.90	1.04	-3.60	-2.56	-17.38	4.08	10.23	1.04	-3.07	-2.03
5755	0.00	6.99	-27.35	3.90	9.90	1.04	-6.56	-5.52	-27.29	4.09	10.24	1.04	-5.97	-4.93
5795	0.00	6.99	-26.74	3.91	9.89	1.04	-5.95	-4.91	-26.79	4.09	10.24	1.04	-5.47	-4.43

Sample Calculation:

PSD: Power Spectral Density

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

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

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

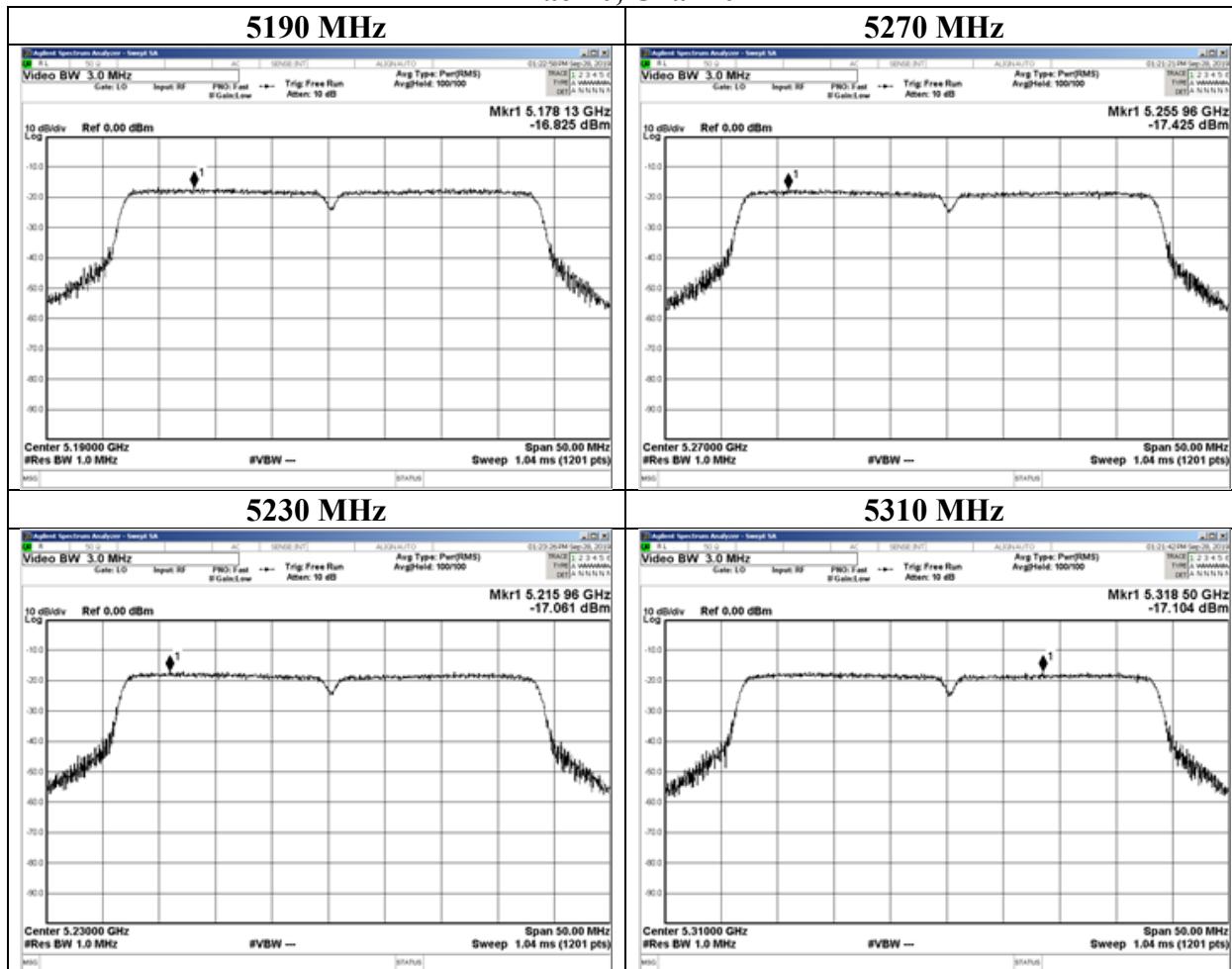
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. A-7)

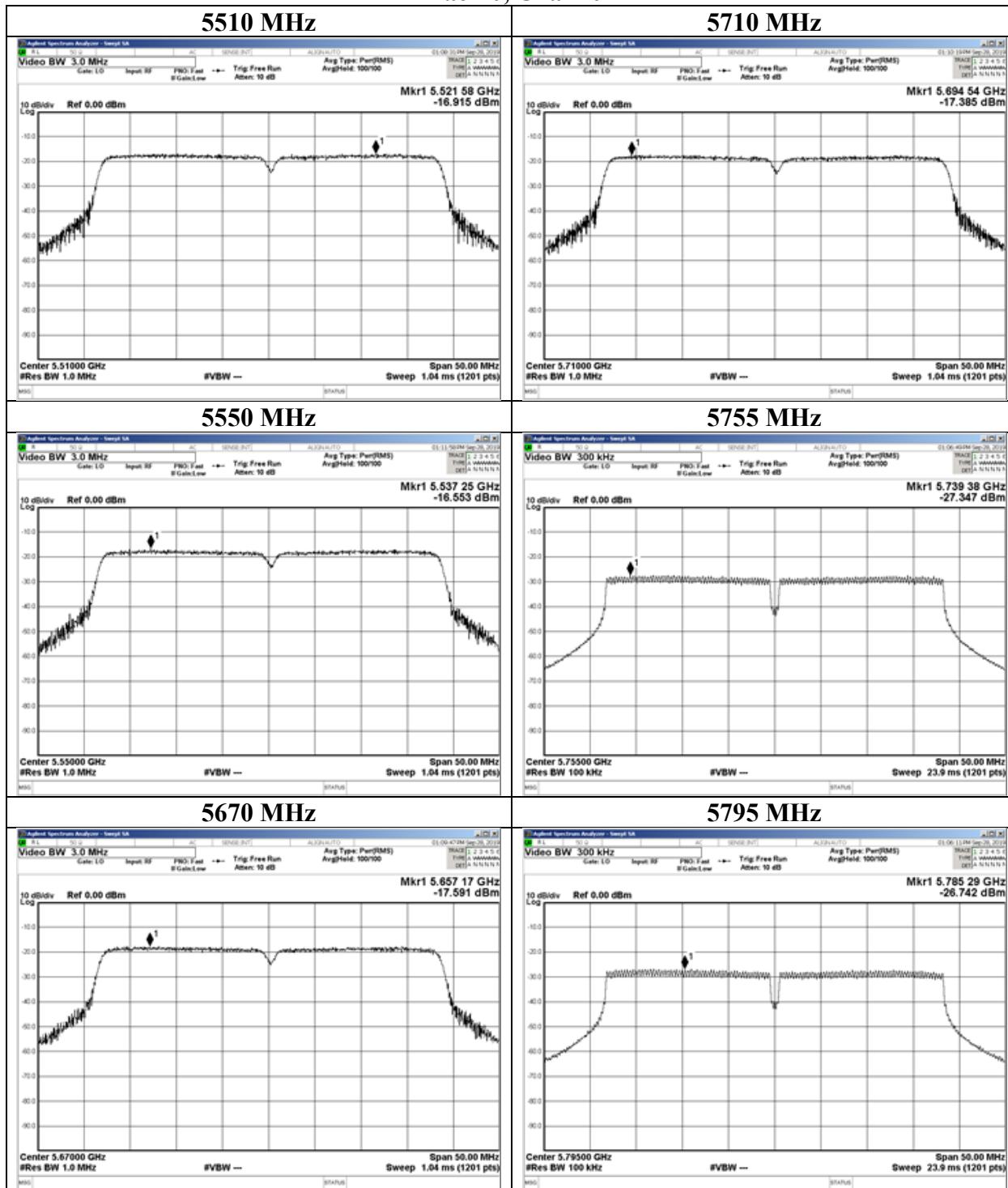
### 11ac-40, Chain 0



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. A-7)

### 11ac-40, Chain 0



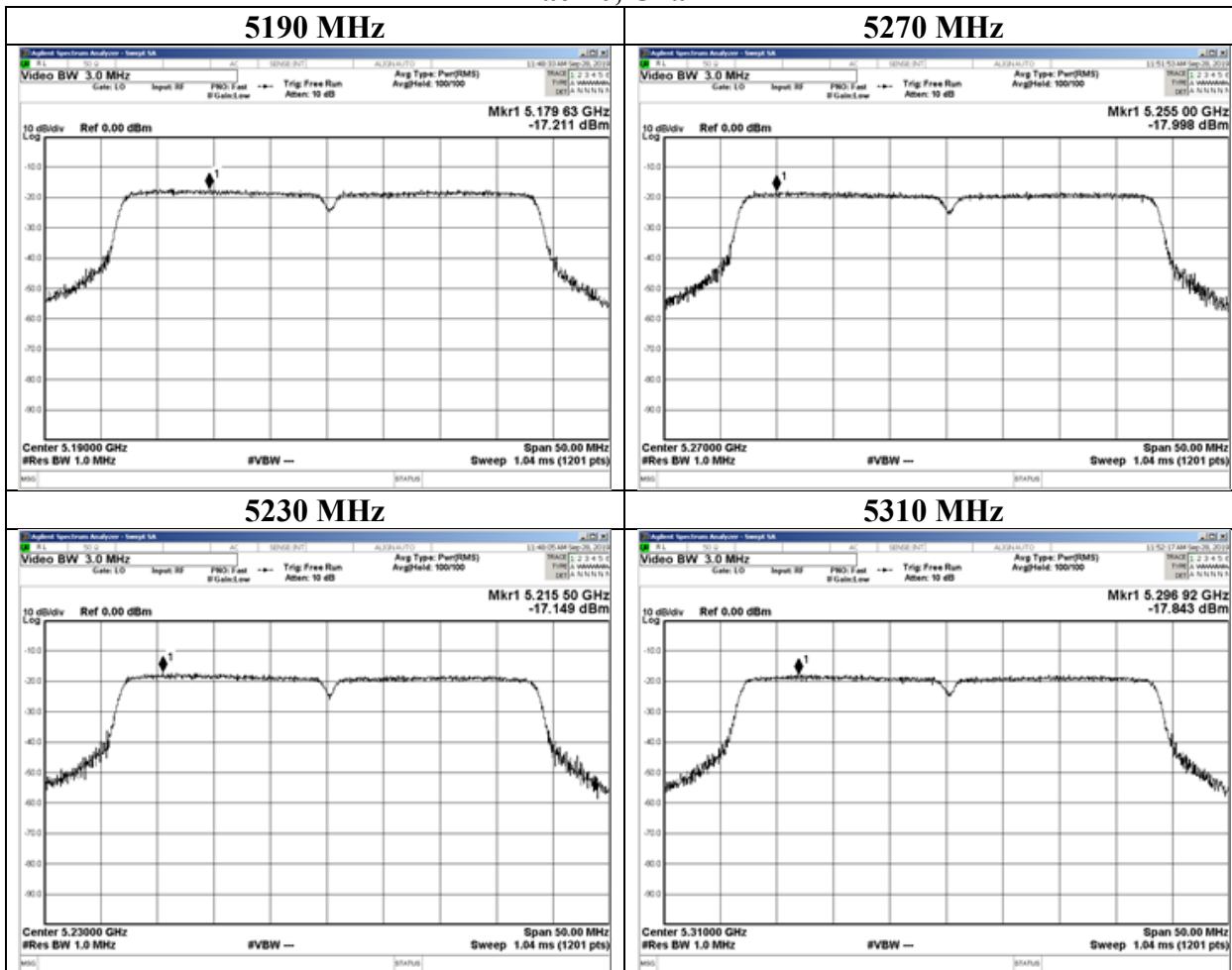
**UL Japan, Inc.**  
**Shonan EMC Lab.**

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 Facsimile : +81 463 50 6401

## Maximum Power Spectral Density

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 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. A-7)

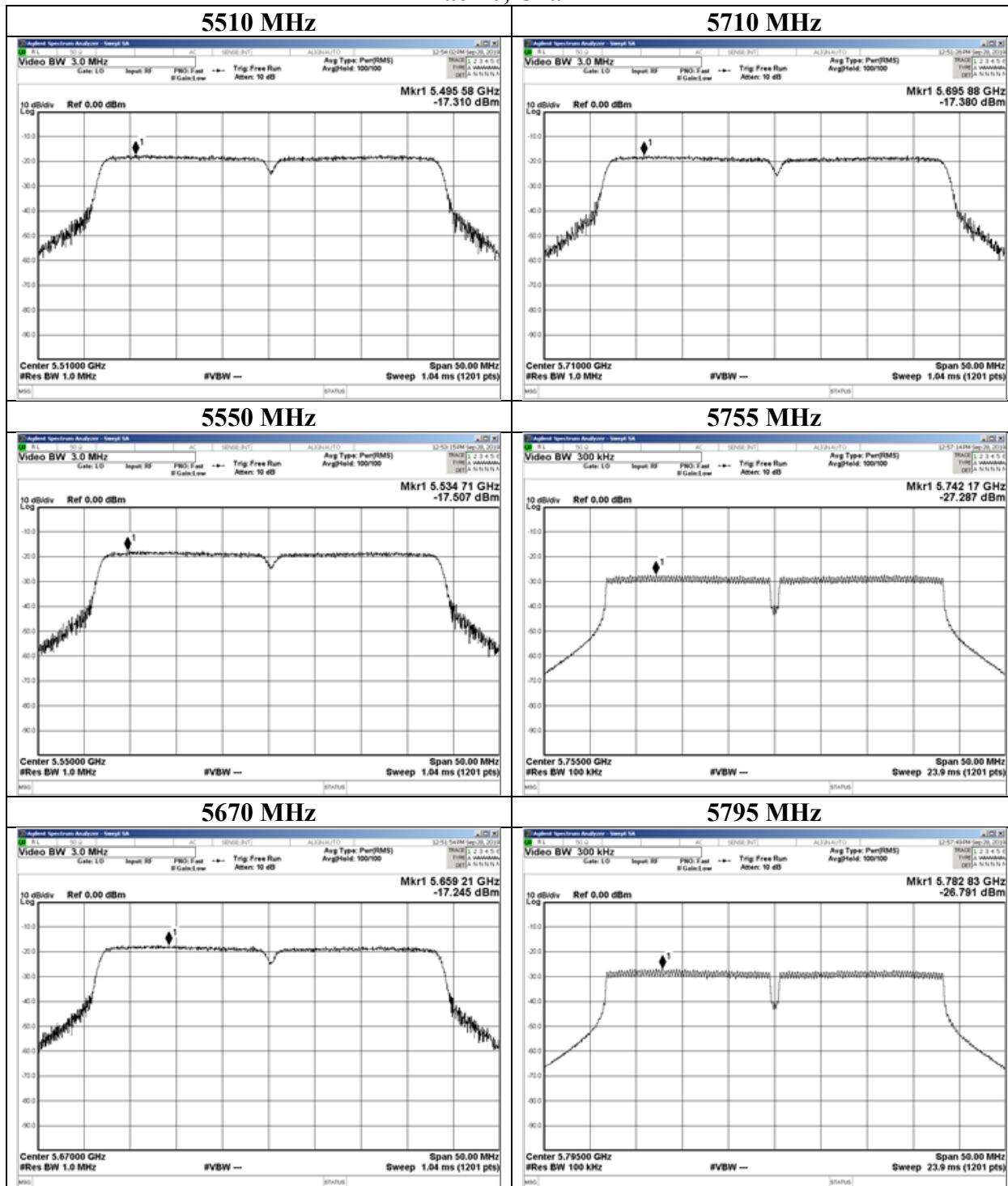
### 11ac-40, Chain 1



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
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 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. A-7)

### 11ac-40, Chain 1



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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. B-5)

Tested Frequency [MHz]	MIMO					Applied limit: 15.407, mobile and portable client device						
	PSD (Conducted)					PSD (e.i.r.p.)						
	Antenna Chain 0	Antenna Chain 1	Sum	Result	Limit	Margin	Antenna Chain 0	Antenna Chain 1	Sum	Result	Limit	
[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	0.51	0.46	0.97	-0.14	11.00	11.14	0.65	0.72	1.37	1.37	17.00	15.63
5230	0.51	0.45	0.96	-0.18	11.00	11.18	0.65	0.70	1.36	1.33	17.00	15.67
5270	0.45	0.42	0.87	-0.60	11.00	11.60	0.57	0.66	1.24	0.92	17.00	16.08
5310	0.47	0.46	0.93	-0.31	11.00	11.31	0.60	0.72	1.32	1.22	17.00	15.78
5510	0.45	0.50	0.95	-0.24	11.00	11.24	0.57	0.79	1.36	1.32	17.00	15.68
5550	0.47	0.48	0.95	-0.21	11.00	11.21	0.59	0.76	1.36	1.33	17.00	15.67
5670	0.45	0.47	0.92	-0.35	11.00	11.35	0.57	0.75	1.32	1.20	17.00	15.80
5710	0.48	0.47	0.95	-0.21	11.00	11.21	0.61	0.74	1.35	1.32	17.00	15.68
5755	0.27	0.28	0.55	-2.59	30.00	32.59	0.34	0.44	0.79	-1.05	36.00	37.05
5795	0.28	0.28	0.56	-2.54	30.00	32.54	0.36	0.44	0.79	-1.01	36.00	37.01

Tested Frequency [MHz]	Chain 0					Chain 1								
	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.
	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5190	0.00	0.00	-16.75	3.92	9.90	1.04	-2.93	-1.89	-18.26	4.67	10.21	1.98	-3.38	-1.40
5230	0.00	0.00	-16.73	3.93	9.91	1.04	-2.89	-1.85	-18.39	4.68	10.21	1.98	-3.50	-1.52
5270	0.00	0.00	-17.30	3.94	9.91	1.04	-3.45	-2.41	-18.68	4.70	10.21	1.98	-3.77	-1.79
5310	0.00	0.00	-17.11	3.95	9.91	1.04	-3.25	-2.21	-18.31	4.71	10.21	1.98	-3.39	-1.41
5510	0.00	0.00	-17.40	4.00	9.92	1.04	-3.48	-2.44	-18.05	4.80	10.22	1.98	-3.03	-1.05
5550	0.00	0.00	-17.22	4.00	9.91	1.04	-3.31	-2.27	-18.16	4.80	10.22	1.98	-3.14	-1.16
5670	0.00	0.00	-17.33	3.95	9.90	1.04	-3.48	-2.44	-18.24	4.77	10.23	1.98	-3.24	-1.26
5710	0.00	0.00	-16.97	3.89	9.90	1.04	-3.18	-2.14	-18.24	4.73	10.23	1.98	-3.28	-1.30
5755	0.00	6.99	-26.46	3.90	9.90	1.04	-5.67	-4.63	-27.50	4.74	10.24	1.98	-5.53	-3.55
5795	0.00	6.99	-26.32	3.91	9.89	1.04	-5.53	-4.49	-27.55	4.74	10.24	1.98	-5.58	-3.60

Sample Calculation:

PSD: Power Spectral Density

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

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

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

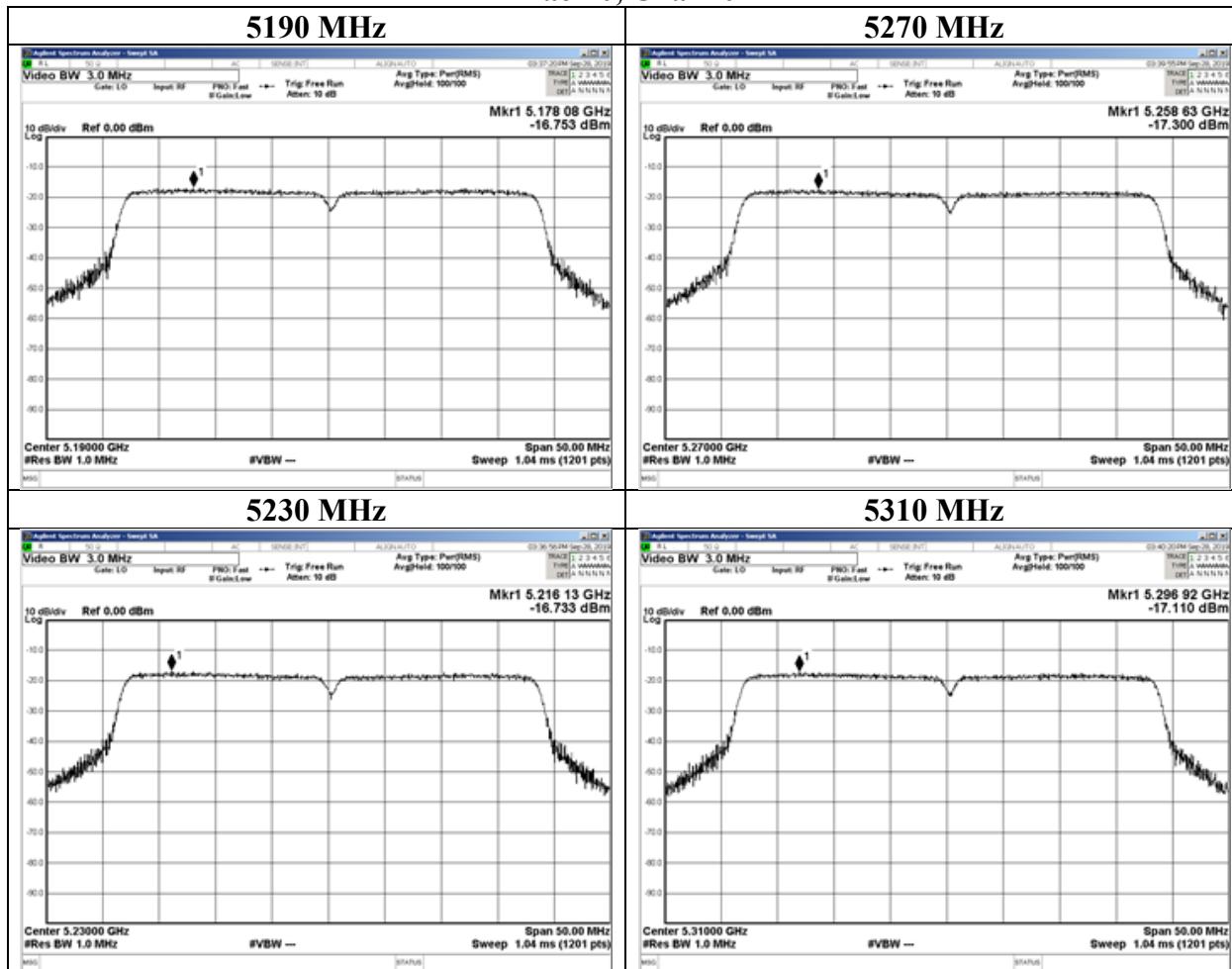
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. B-5)

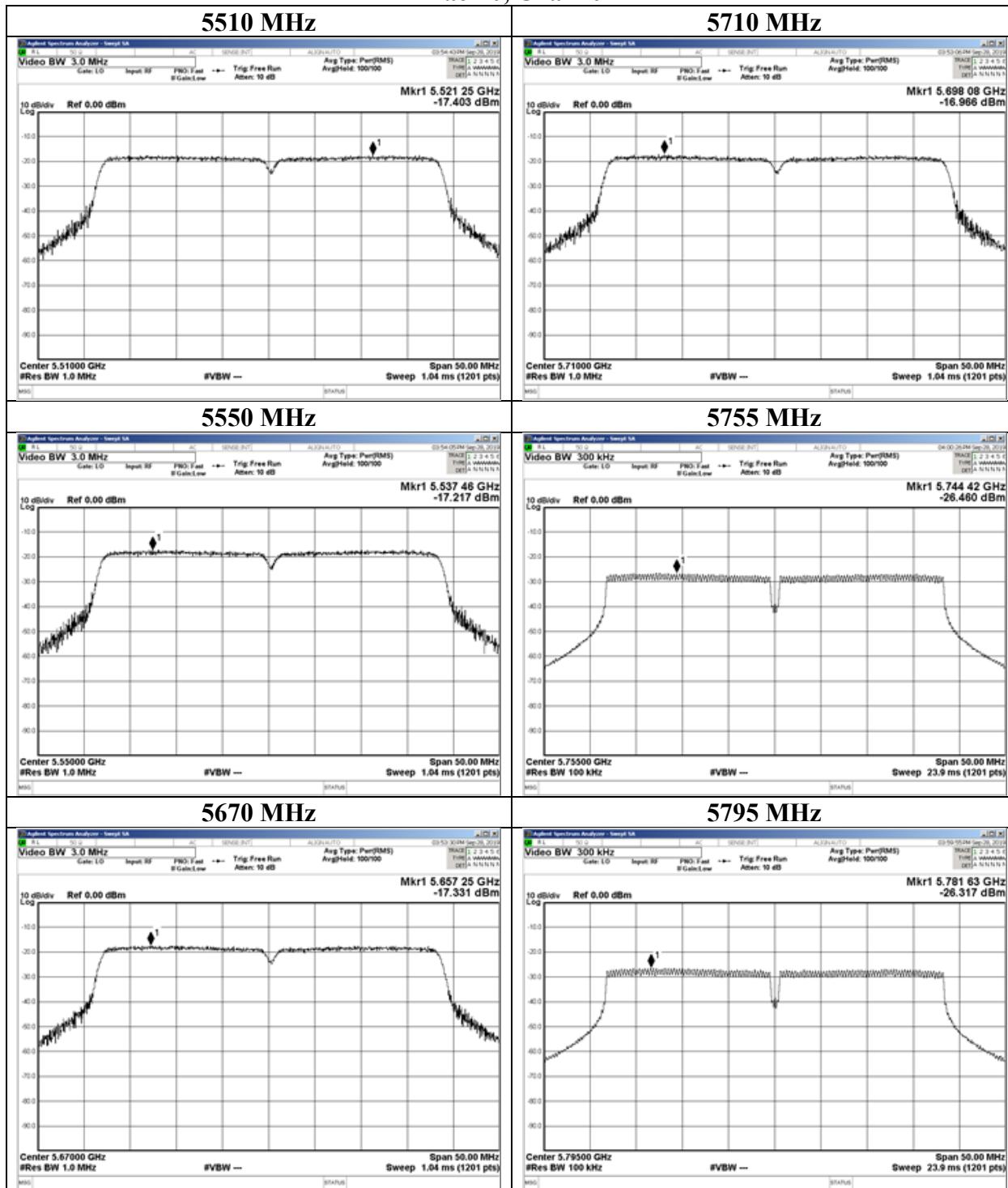
### 11ac-40, Chain 0



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. B-5)

### 11ac-40, Chain 0



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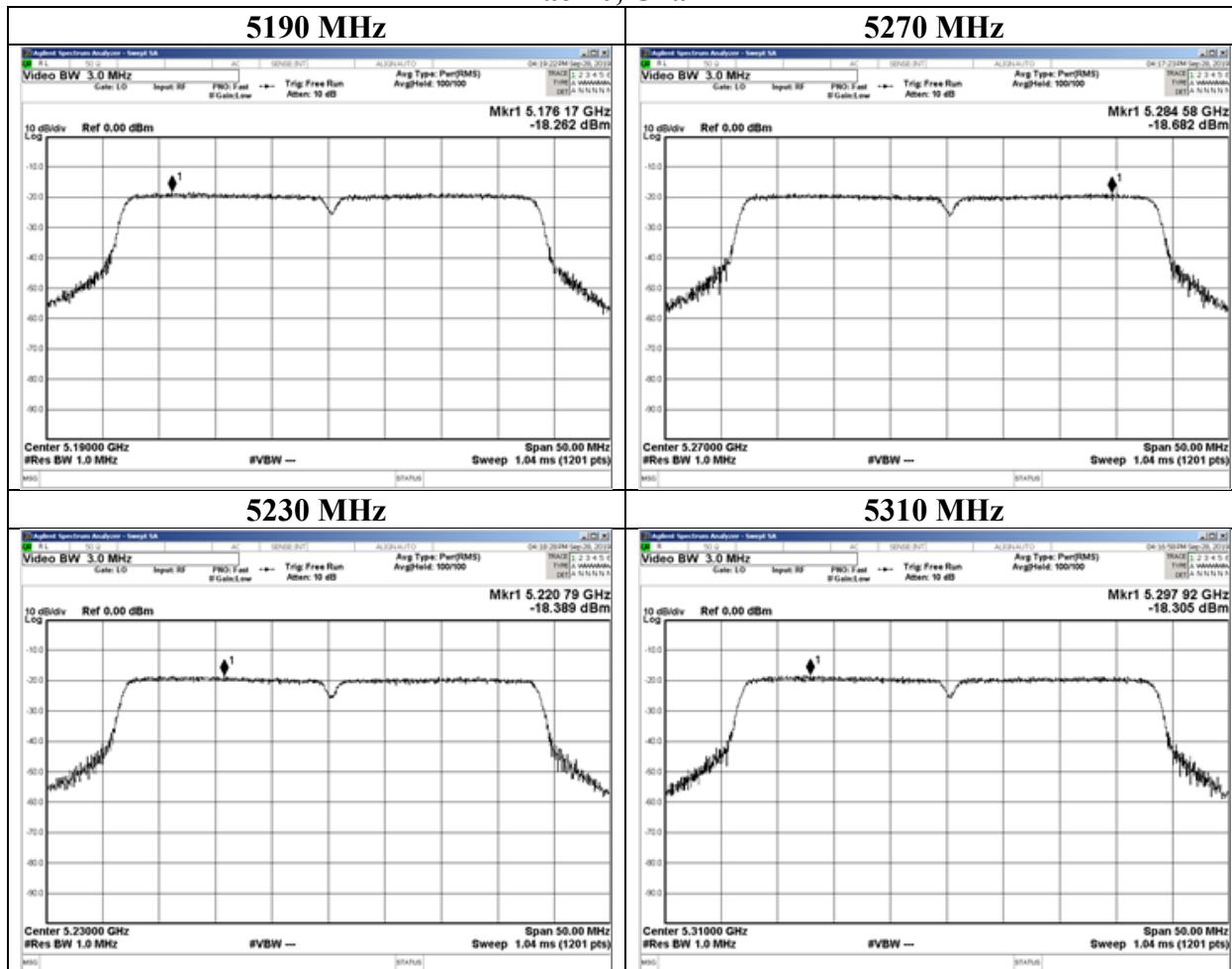
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. B-5)

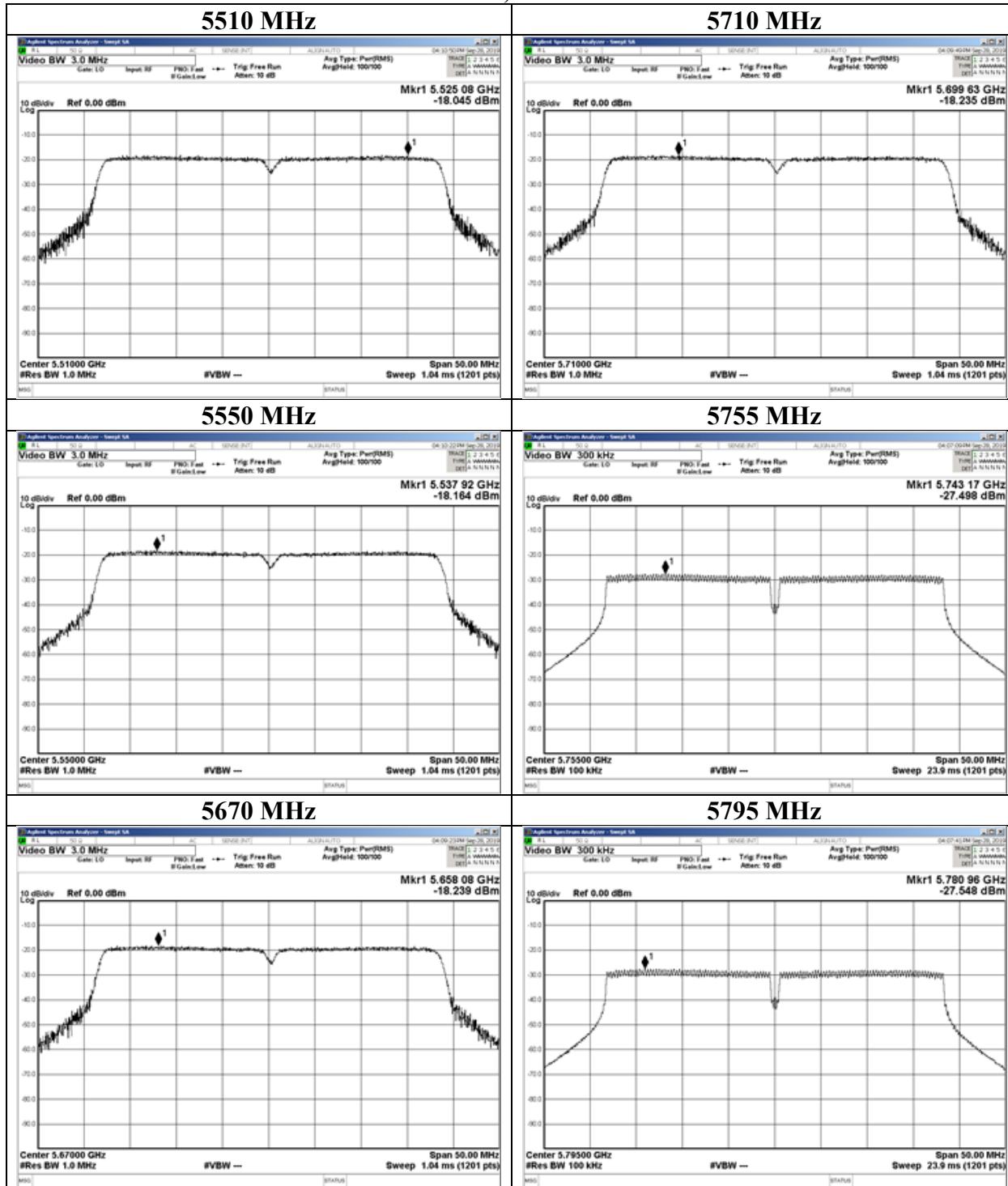
### 11ac-40, Chain 1



## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-40 (MIMO), (serial no. B-5)

### 11ac-40, Chain 1



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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-80 (CDD), (serial no. A-7)

Tested Frequency [MHz]	CDD								Applied limit: 15.407, mobile and portable client device							
	PSD (Conducted)			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	PSD (e.i.r.p.)			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]				
	Antenna Chain 0 [mW/MHz]	Antenna Chain 1 [mW/MHz]	Sum [mW/MHz]				Antenna Chain 0 [mW/MHz]	Antenna Chain 1 [mW/MHz]	Sum [mW/MHz]							
5210	0.26	0.24	0.51	-2.94	11.00	13.94	0.67	0.62	1.29	1.11	17.00	15.89				
5290	0.24	0.22	0.46	-3.40	11.00	14.40	0.61	0.55	1.16	0.65	17.00	16.35				
5530	0.23	0.23	0.47	-3.29	11.00	14.29	0.60	0.59	1.19	0.76	17.00	16.24				
5610	0.25	0.23	0.48	-3.22	11.00	14.22	0.64	0.57	1.21	0.83	17.00	16.17				
5690	0.23	0.26	0.49	-3.12	11.00	14.12	0.58	0.66	1.24	0.93	17.00	16.07				
5775	0.11	0.12	0.24	-6.25	30.00	36.25	0.29	0.31	0.60	-2.20	36.00	38.20				

Tested Frequency [MHz]	Chain 0								Chain 1							
	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	Cond.	e.i.r.p.
	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]
5210	0.00	0.00	-19.59	3.92	9.90	4.05	-5.77	-1.72	-20.37	4.02	10.21	4.05	-6.14	-2.09		
5290	0.00	0.00	-20.04	3.94	9.91	4.05	-6.19	-2.14	-20.92	4.06	10.21	4.05	-6.65	-2.60		
5530	0.00	0.00	-20.21	4.00	9.91	4.05	-6.30	-2.25	-20.68	4.15	10.22	4.05	-6.31	-2.26		
5610	0.00	0.00	-19.85	3.94	9.91	4.05	-6.00	-1.95	-20.81	4.11	10.23	4.05	-6.47	-2.42		
5690	0.00	0.00	-20.28	3.95	9.90	4.05	-6.43	-2.38	-20.21	4.13	10.23	4.05	-5.85	-1.80		
5775	0.00	6.99	-30.21	3.91	9.89	4.05	-9.42	-5.37	-30.42	4.09	10.24	4.05	-9.10	-5.05		

Sample Calculation:

PSD: Power Spectral Density

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

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

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 + Directional Gain

Directional Gain = G ANT + Array Gain

G ANT = Set equal to the gain of the antenna having the highest gain

Array Gain =  $10 \log(N \text{ ANT} / N \text{ SS})$  dB.

N ANT = number of transmit antennas = 2

N SS = number of spatial streams = 1

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

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**Shonan EMC Lab.**

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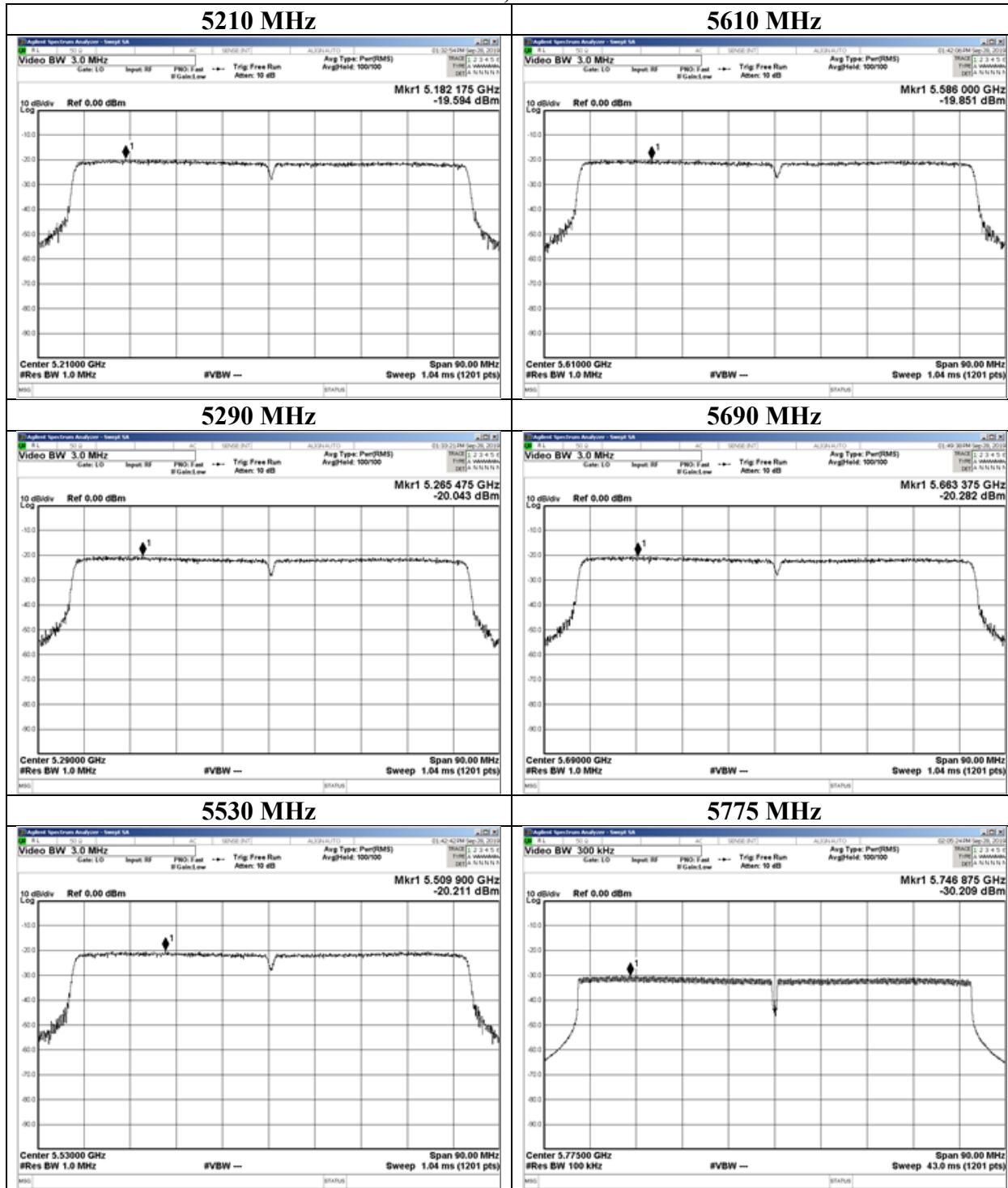
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Maximum Power Spectral Density

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 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-80 (CDD), (serial no. A-7)

### 11ac-80, Chain 0



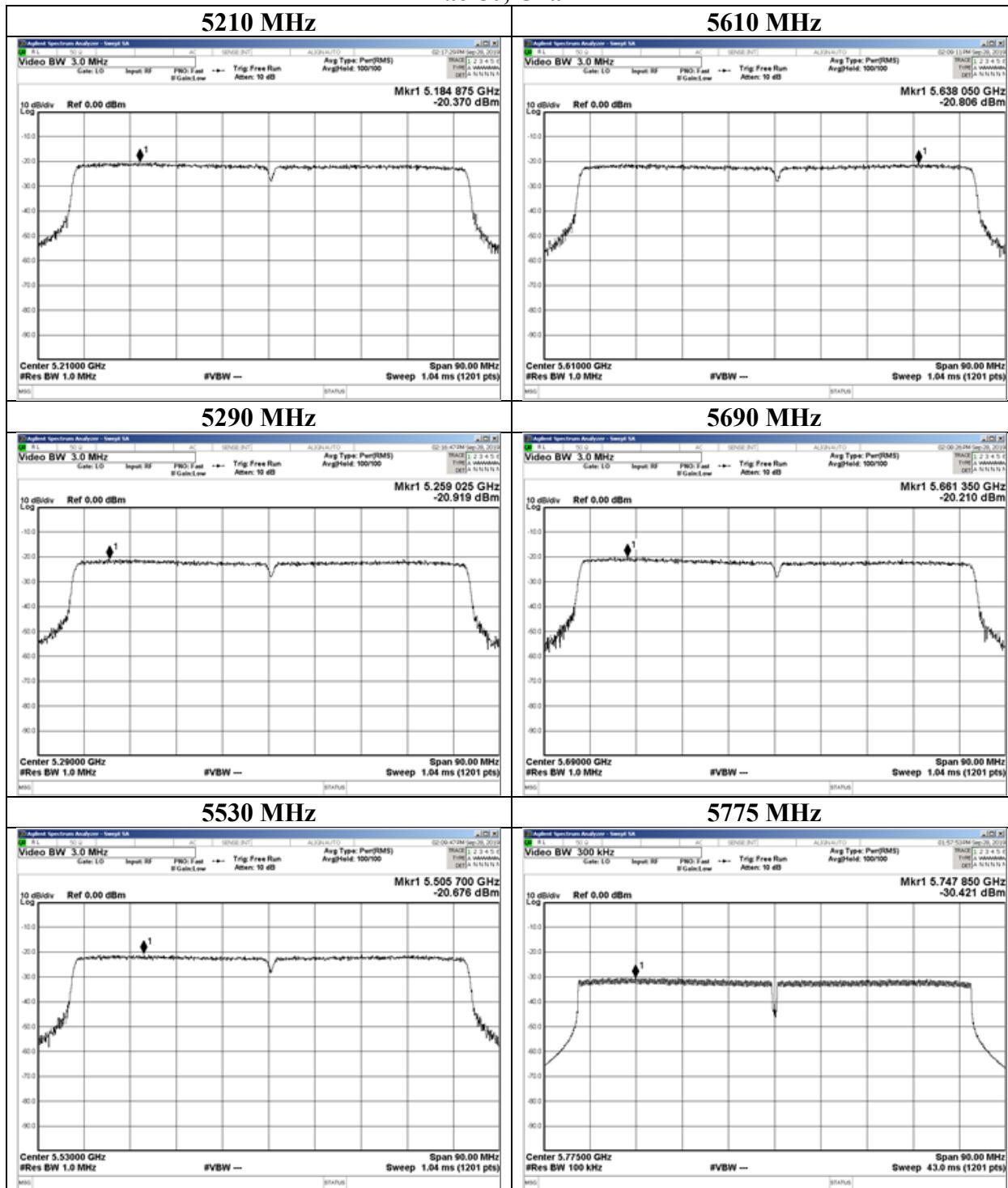
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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-80 (CDD), (serial no. A-7)

### 11ac-80, Chain 1



**UL Japan, Inc.**

**Shonan EMC Lab.**

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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 27, 2019  
 Temperature / Humidity 26 deg. C / 42 % RH  
 Engineer Takahiro Kawakami  
 Mode Tx, 11ac-80 (CDD), (serial no. B-5)

Chain 0+1		CDD					Applied limit: 15.407, mobile and portable client device						
Tested Frequency [MHz]	Antenna	PSD (Conducted)					PSD (e.i.r.p.)					Margin [dB]	
		Chain 0 [mW/MHz]	Chain 1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Chain 0 [mW/MHz]	Chain 1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	
5210	0.25	0.24	0.49	-3.07	11.00	14.07	0.78	0.77	1.56	1.92	17.00	15.08	
5290	0.22	0.21	0.43	-3.64	11.00	14.64	0.69	0.67	1.36	1.35	17.00	15.65	
5530	0.21	0.23	0.44	-3.59	11.00	14.59	0.66	0.72	1.38	1.40	17.00	15.60	
5610	0.23	0.23	0.46	-3.35	11.00	14.35	0.74	0.72	1.46	1.64	17.00	15.36	
5690	0.24	0.27	0.51	-2.93	11.00	13.93	0.75	0.86	1.61	2.06	17.00	14.94	
5775	0.13	0.13	0.26	-5.84	30.00	35.84	0.41	0.42	0.82	-0.85	36.00	36.85	

Chain 0						Chain 1								
Tested Frequency [MHz]	Duty Factor	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond.	e.i.r.p. [dBm/MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond.	e.i.r.p. [dBm/MHz]
5210	0.00	0.00	-19.87	3.92	9.90	4.99	-6.05	-1.05	-21.00	4.67	10.21	4.99	-6.12	-1.13
5290	0.00	0.00	-20.42	3.94	9.91	4.99	-6.57	-1.58	-21.65	4.71	10.21	4.99	-6.73	-1.74
5530	0.00	0.00	-20.69	4.00	9.91	4.99	-6.78	-1.79	-21.45	4.80	10.22	4.99	-6.43	-1.44
5610	0.00	0.00	-20.17	3.94	9.91	4.99	-6.32	-1.33	-21.40	4.76	10.23	4.99	-6.41	-1.41
5690	0.00	0.00	-20.10	3.95	9.90	4.99	-6.25	-1.26	-20.66	4.78	10.23	4.99	-5.65	-0.66
5775	0.00	6.99	-29.69	3.91	9.89	4.99	-8.90	-3.91	-30.77	4.74	10.24	4.99	-8.80	-3.81

Samp le Calculation:

PSD: Power Spectral Density

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

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

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 + Directional Gain

Directional Gain = G ANT + Array Gain

G ANT = Set equal to the gain of the antenna having the highest gain

Array Gain =  $10 \log(N \text{ ANT}/N \text{ SS})$  dB.

N ANT = number of transmit antennas = 2

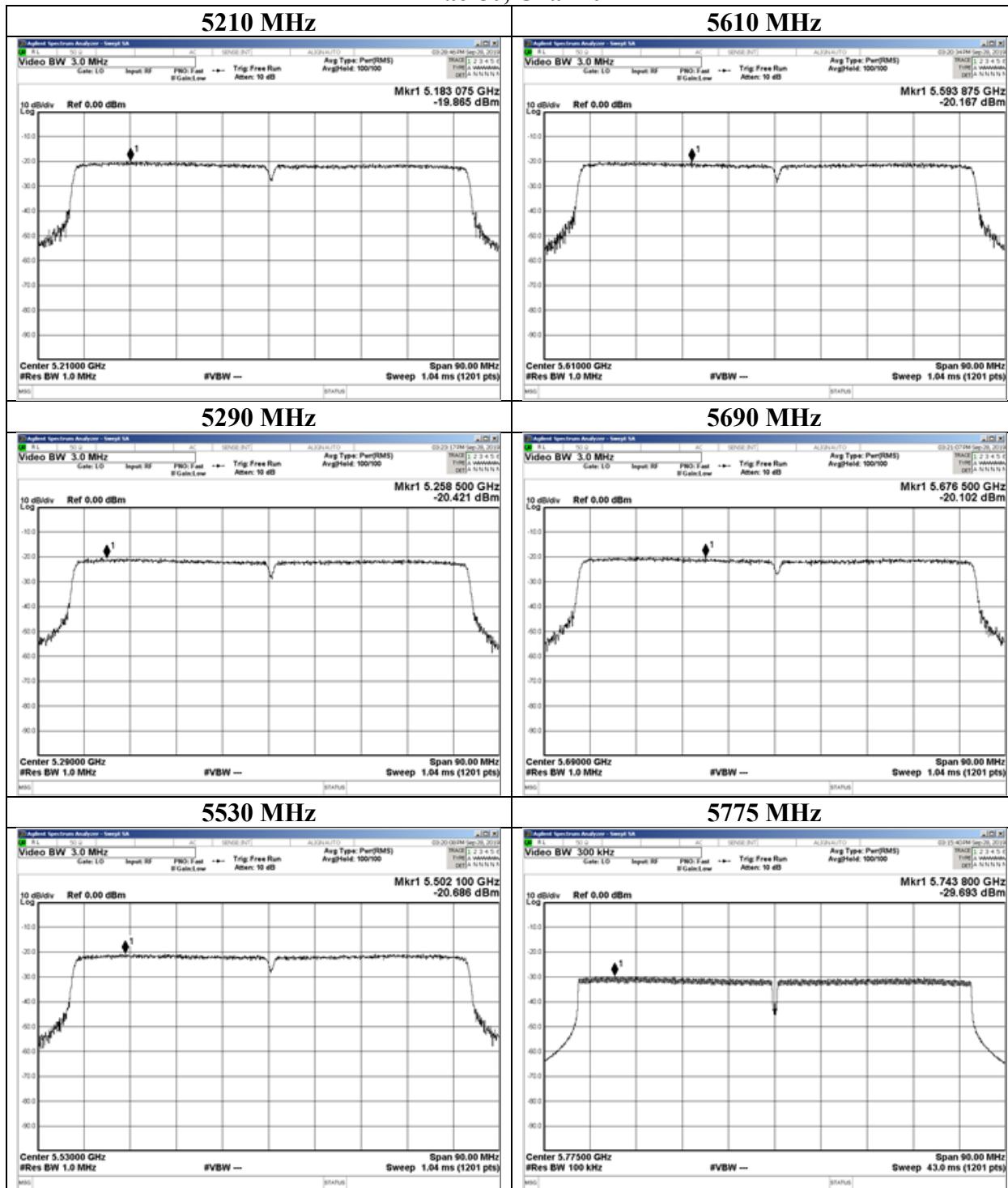
N SS = number of spatial streams = 1

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

## Maximum Power Spectral Density

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 Engineer Takahiro Kawakami  
 Mode Tx, 11ac-80 (CDD), (serial no. B-5)

### 11ac-80, Chain 0



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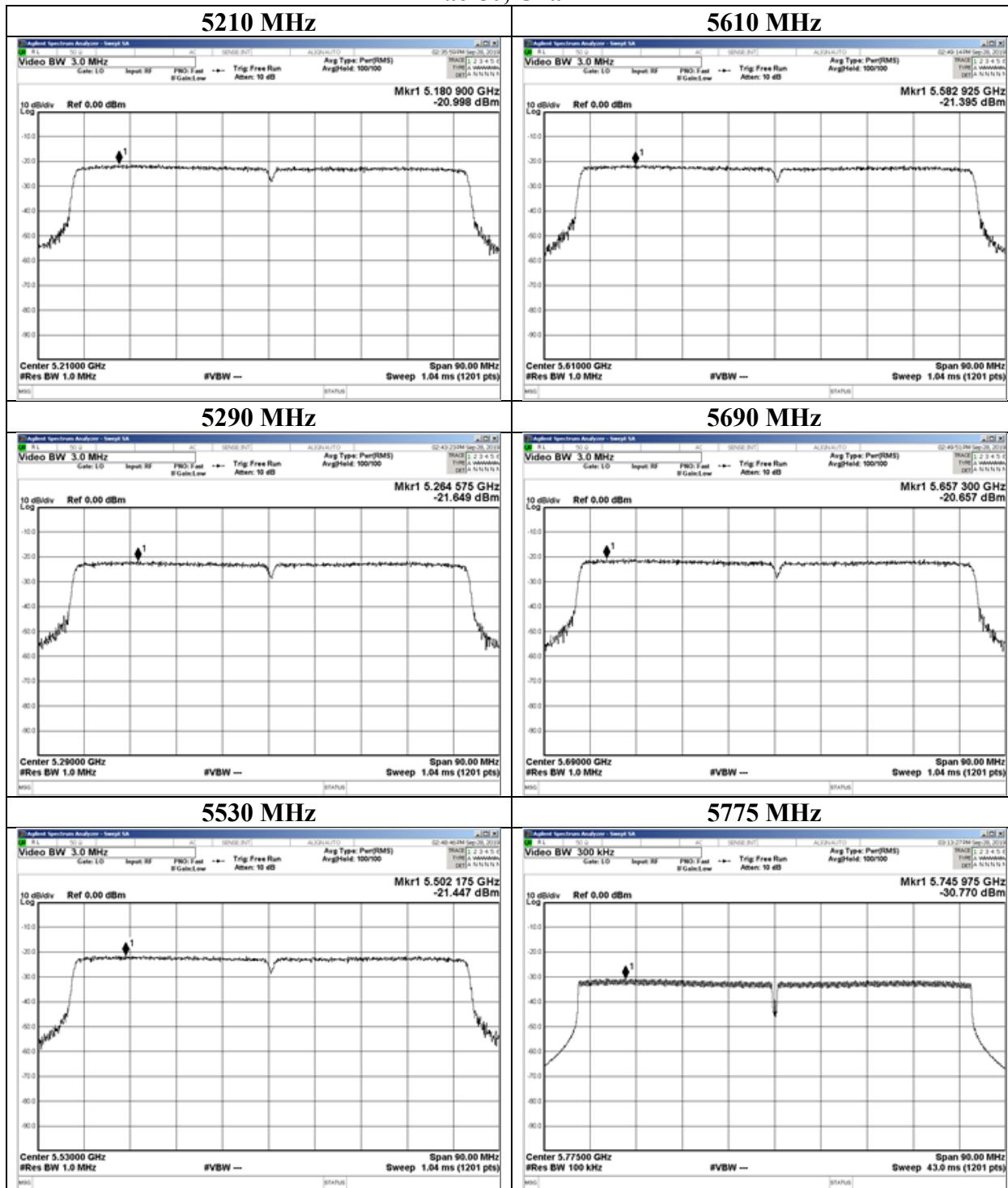
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## Maximum Power Spectral Density

Report No. 13004393S-E-R2  
 Test place Shonan EMC Lab. No.3 Shielded Room  
 Date September 28, 2019  
 Temperature / Humidity 24 deg. C / 50 % RH  
 Engineer Kazuya Noda  
 Mode Tx, 11ac-80 (MIMO), (serial no. A-7)

Chain 0+1		MIMO					Applied limit: 15.407, mobile and portable client device						
Tested Frequency [MHz]	Antenna	PSD (Conducted)					PSD (e.i.r.p.)					Margin [dB]	
		Chain 0 [mW/MHz]	Chain 1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Chain 0 [mW/MHz]	Chain 1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	
5210	0.25	0.25	0.51	-2.95	11.00	13.95	0.32	0.32	0.64	-1.91	17.00	18.91	
5290	0.25	0.22	0.47	-3.30	11.00	14.30	0.32	0.28	0.59	-2.26	17.00	19.26	
5530	0.22	0.21	0.44	-3.61	11.00	14.61	0.29	0.27	0.55	-2.57	17.00	19.57	
5610	0.26	0.23	0.49	-3.10	11.00	14.10	0.33	0.29	0.62	-2.06	17.00	19.06	
5690	0.25	0.29	0.54	-2.67	11.00	13.67	0.31	0.37	0.69	-1.63	17.00	18.63	
5775	0.12	0.13	0.25	-6.10	30.00	36.10	0.15	0.16	0.31	-5.06	36.00	41.06	

Chain 0						Chain 1								
Tested Frequency [MHz]	Duty Factor	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond.	e.i.r.p. [dBm/MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond.	e.i.r.p. [dBm/MHz]
5210	0.00	0.00	-19.78	3.92	9.90	1.04	-5.96	-4.92	-20.19	4.02	10.21	1.04	-5.96	-4.92
5290	0.00	0.00	-19.87	3.94	9.91	1.04	-6.02	-4.98	-20.90	4.06	10.21	1.04	-6.63	-5.59
5530	0.00	0.00	-20.40	4.00	9.91	1.04	-6.49	-5.45	-21.13	4.15	10.22	1.04	-6.76	-5.72
5610	0.00	0.00	-19.64	3.94	9.91	1.04	-5.79	-4.75	-20.79	4.11	10.23	1.04	-6.45	-5.41
5690	0.00	0.00	-19.93	3.95	9.90	1.04	-6.08	-5.04	-19.67	4.13	10.23	1.04	-5.31	-4.27
5775	0.00	6.99	-30.13	3.91	9.89	1.04	-9.34	-8.30	-30.22	4.09	10.24	1.04	-8.90	-7.86

Sample Calculation:

PSD: Power Spectral Density

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

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

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

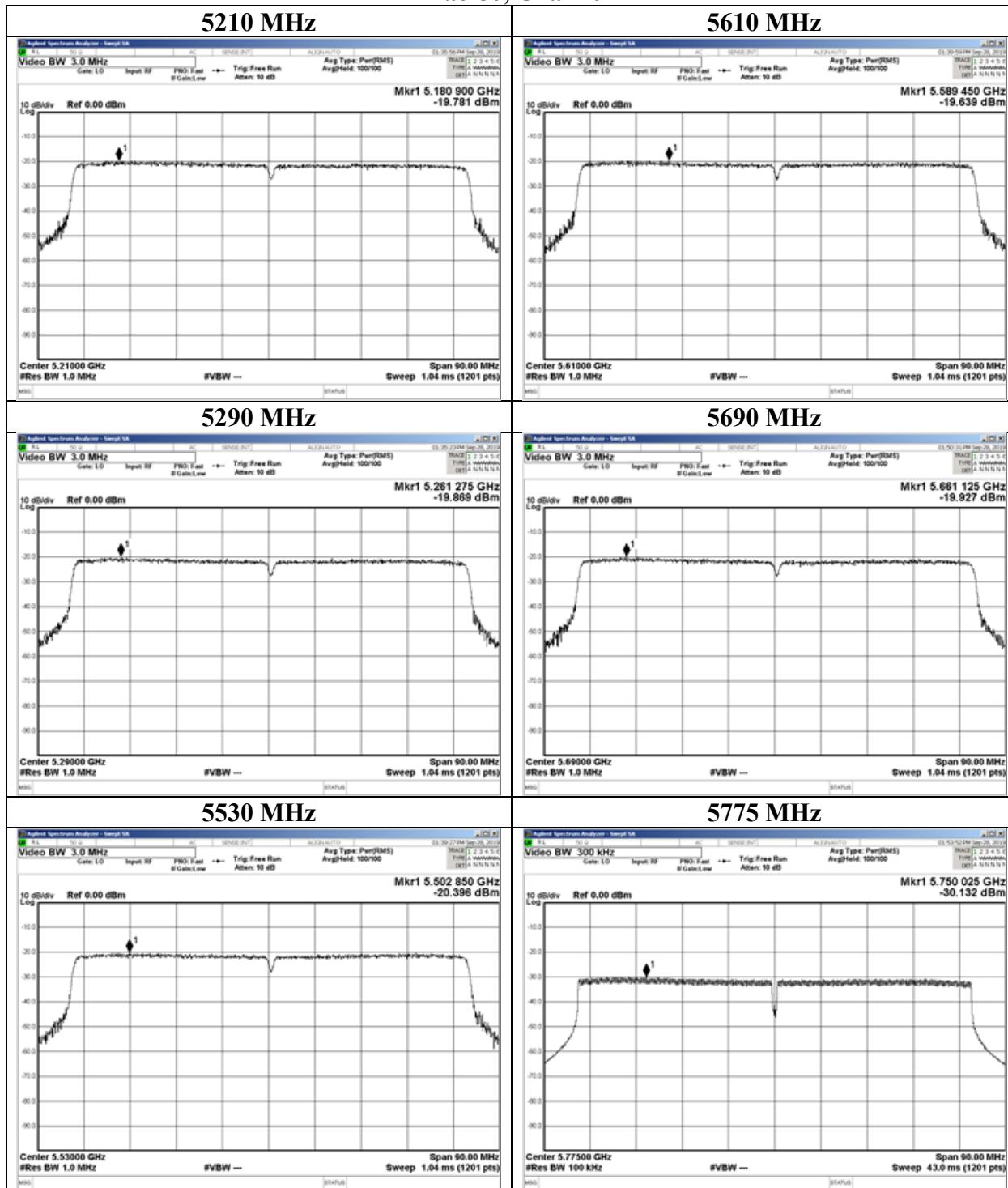
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

## Maximum Power Spectral Density

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 Engineer Kazuya Noda  
 Mode Tx, 11ac-80 (MIMO), (serial no. A-7)

### 11ac-80, Chain 0



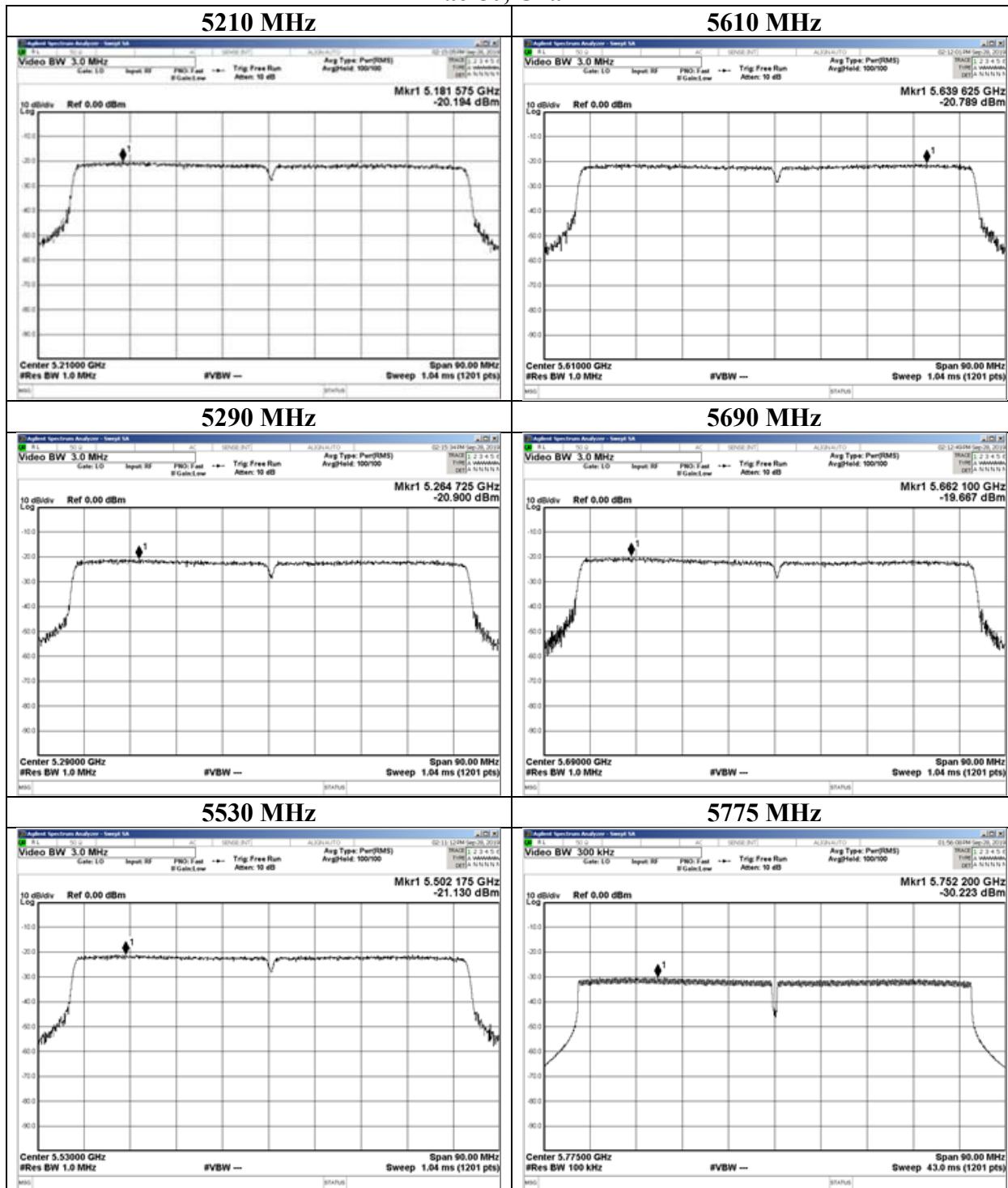
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 Engineer Kazuya Noda  
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### 11ac-80, Chain 1



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