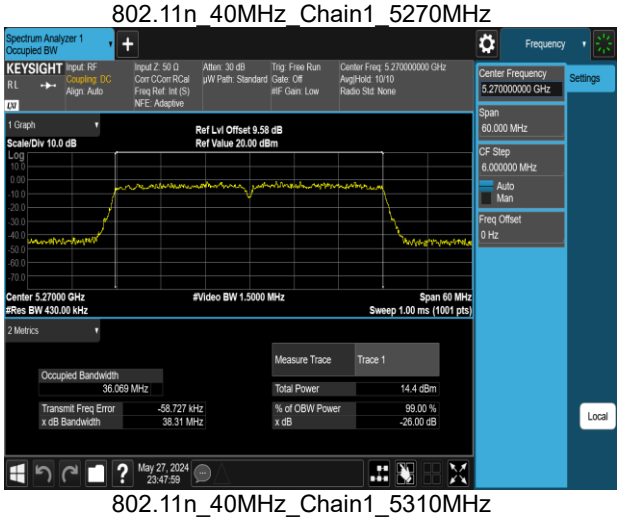
802.11n_40MHz_Chain1_5270MHz



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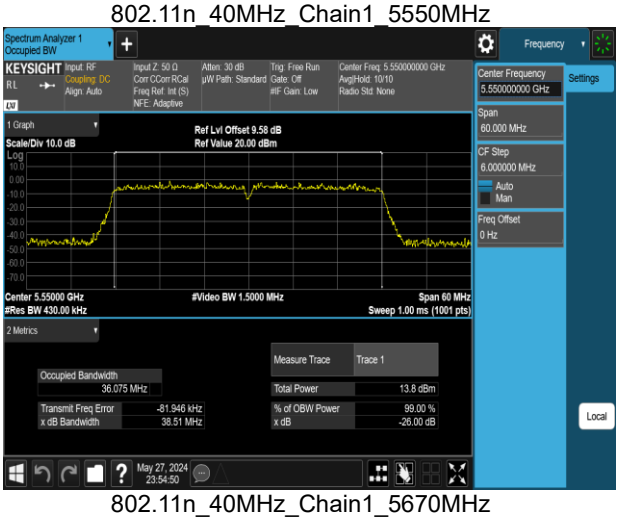
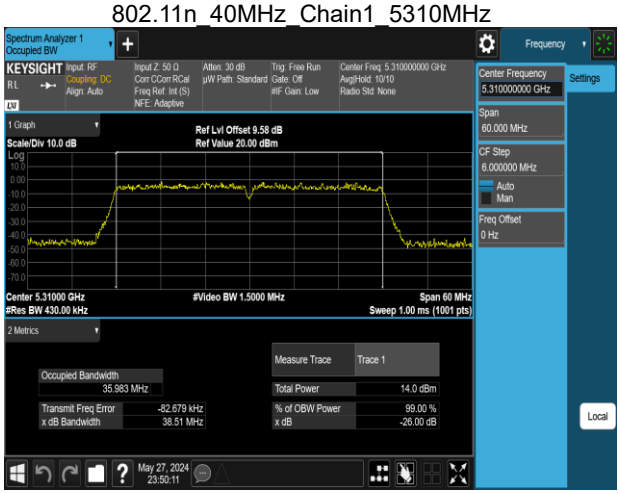
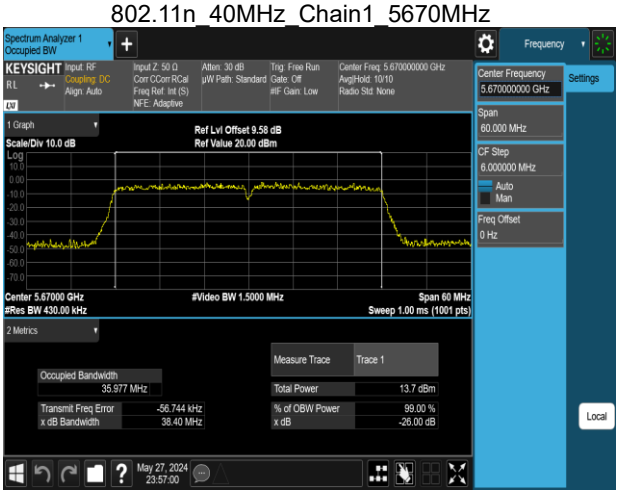


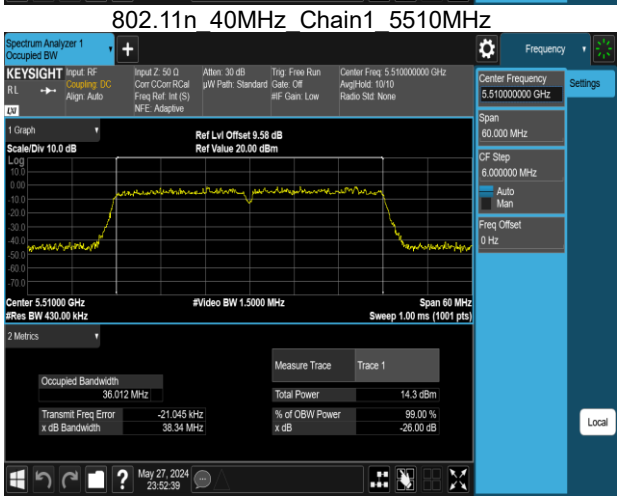
802.11n_40MHz_Chain1_5310MHz



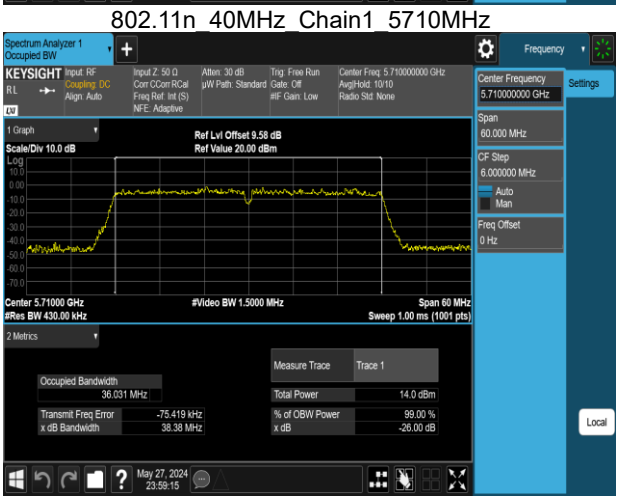
802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



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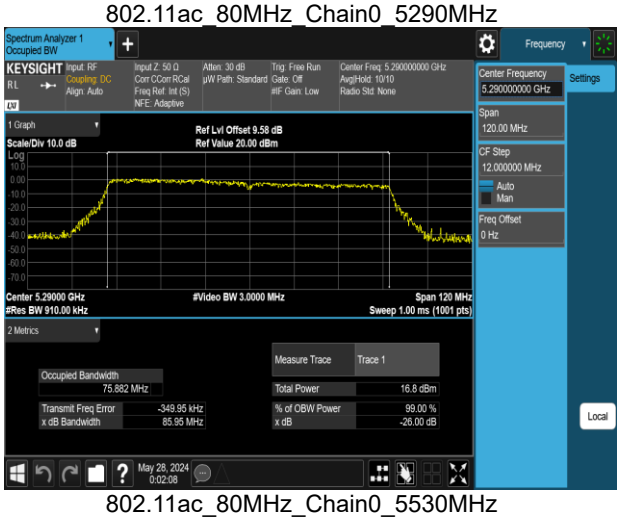
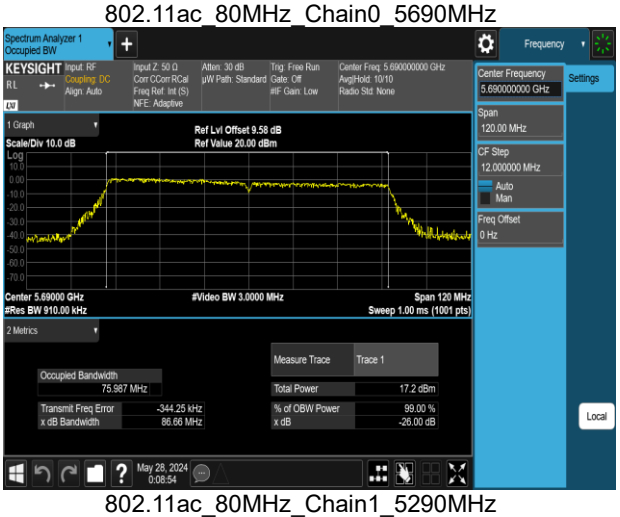
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



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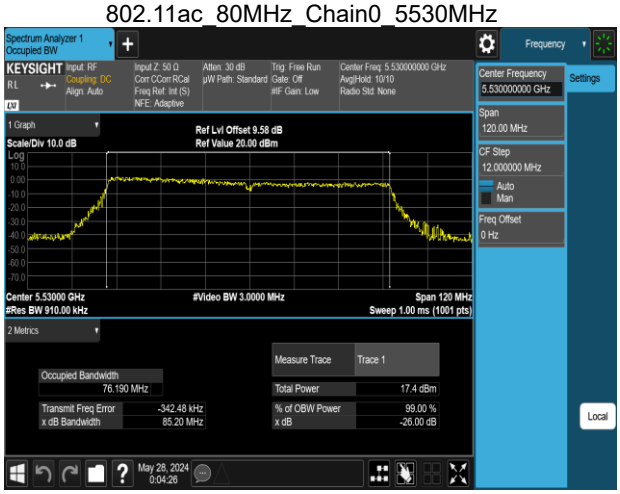
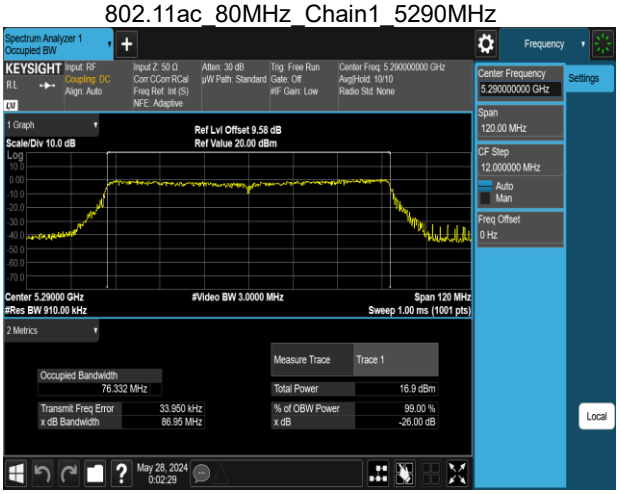
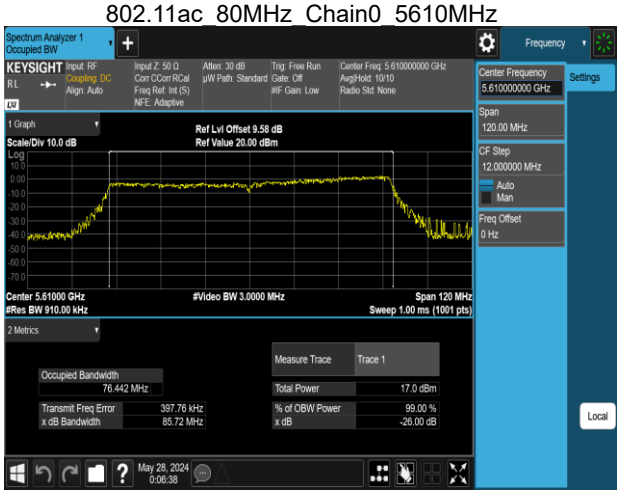


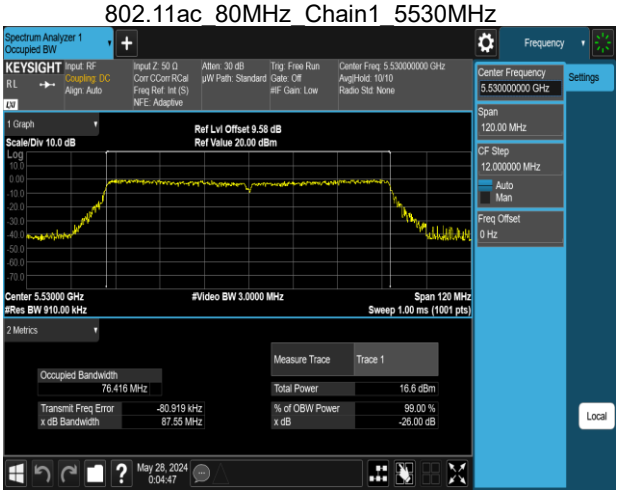
802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain1_5530MHz



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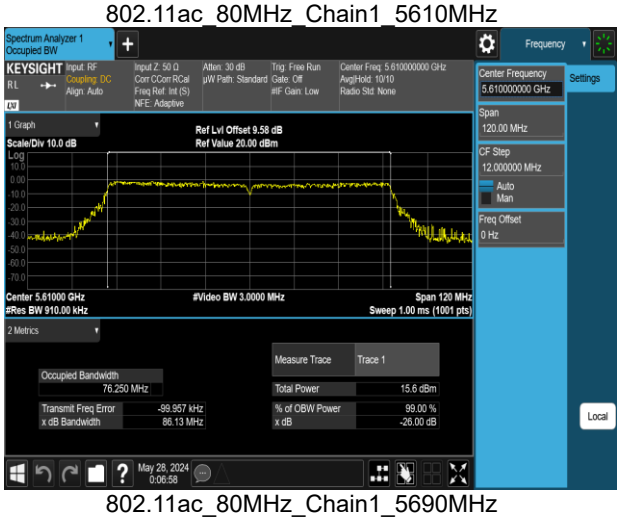
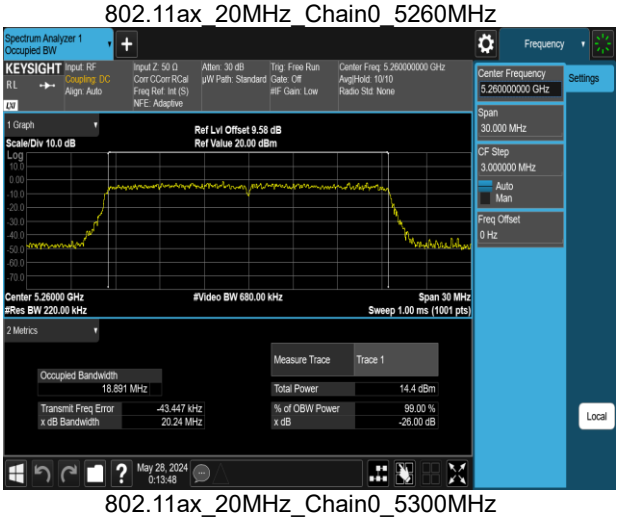
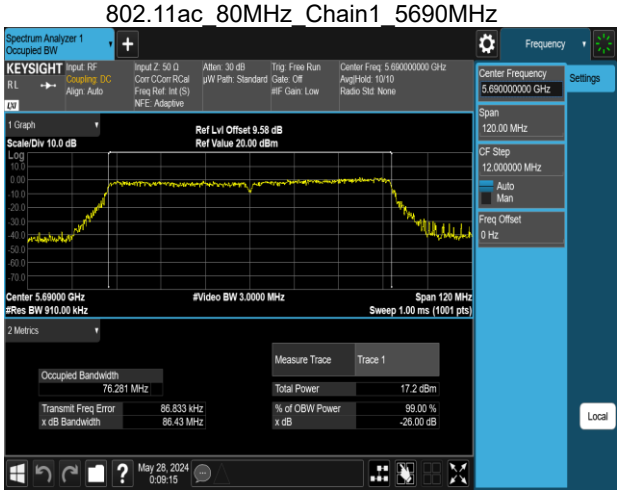
802.11ac_80MHz_Chain1_5610MHz



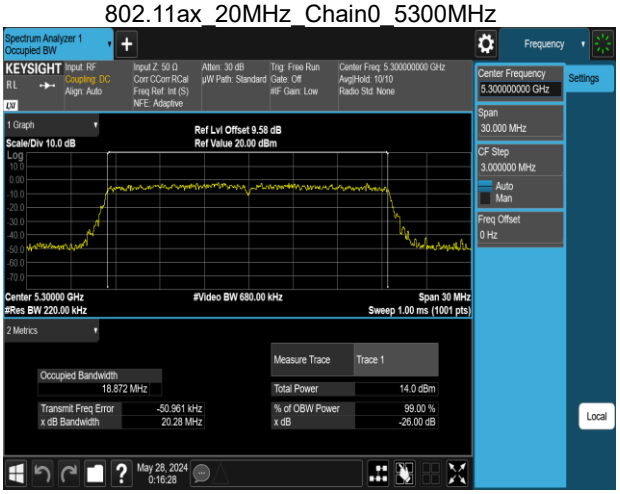
802.11ax_20MHz_Chain0_5260MHz



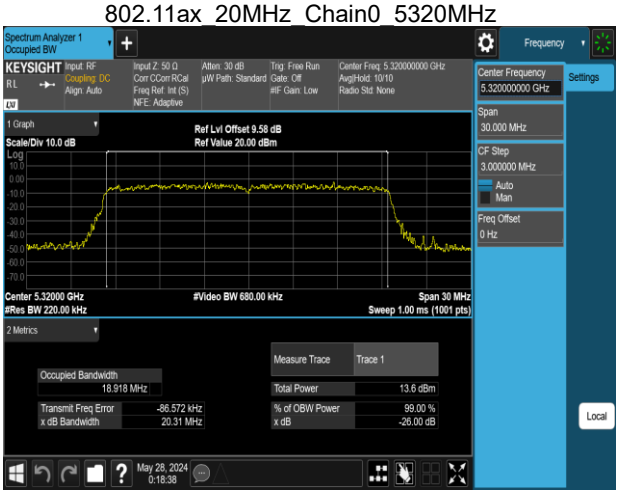
802.11ac_80MHz_Chain1_5690MHz



802.11ax_20MHz_Chain0_5300MHz



802.11ax_20MHz_Chain0_5320MHz



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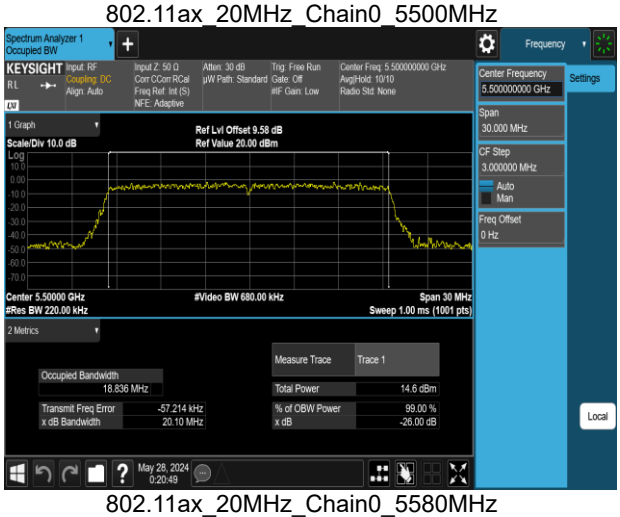
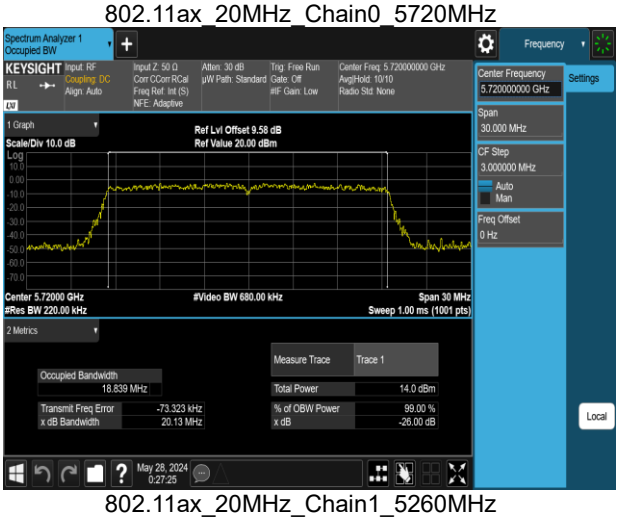
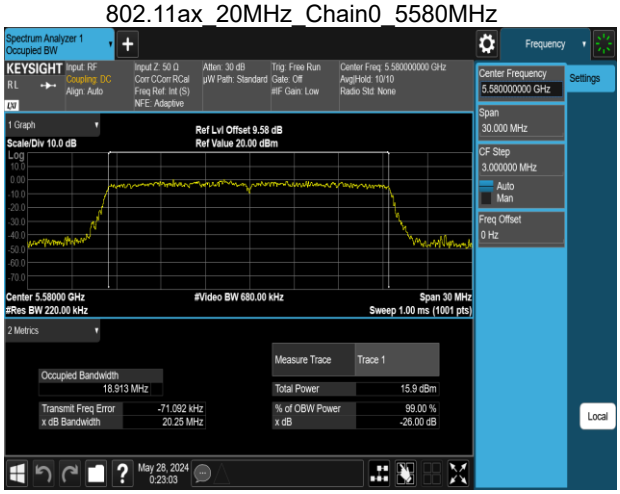
802.11ax_20MHz_Chain0_5500MHz



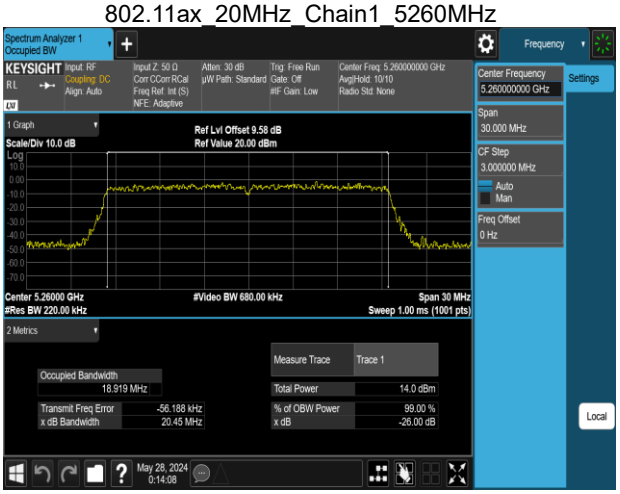
802.11ax_20MHz_Chain0_5720MHz



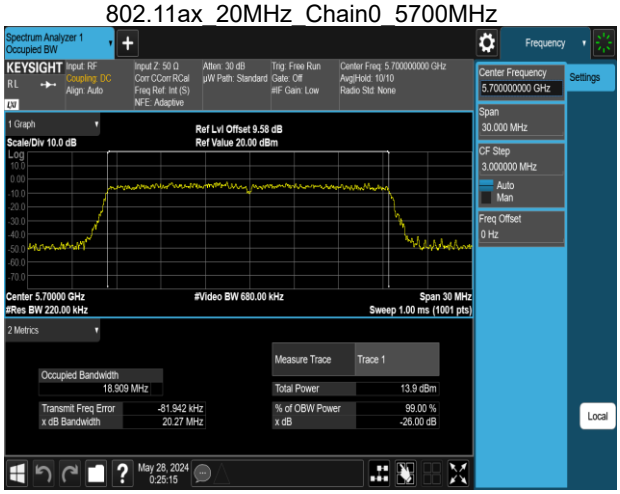
802.11ax_20MHz_Chain0_5580MHz



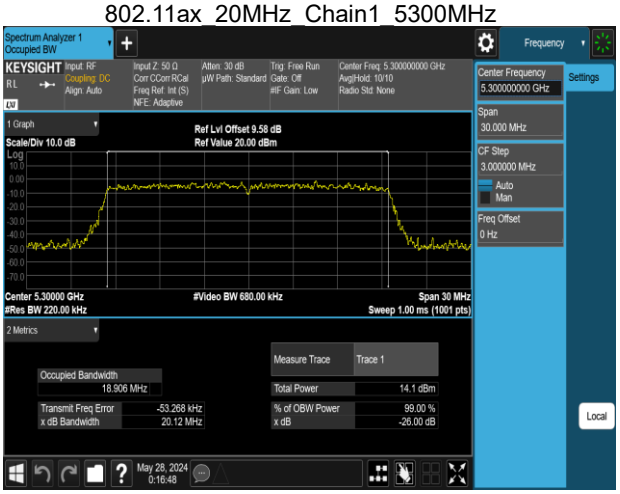
802.11ax_20MHz_Chain1_5260MHz



802.11ax_20MHz_Chain0_5700MHz



802.11ax_20MHz_Chain1_5300MHz



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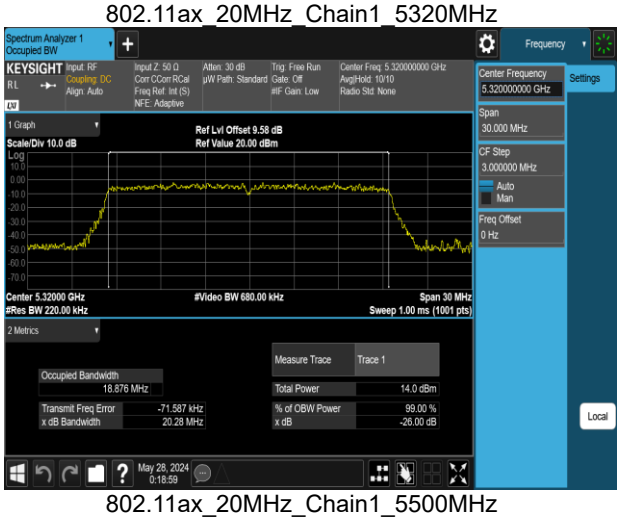
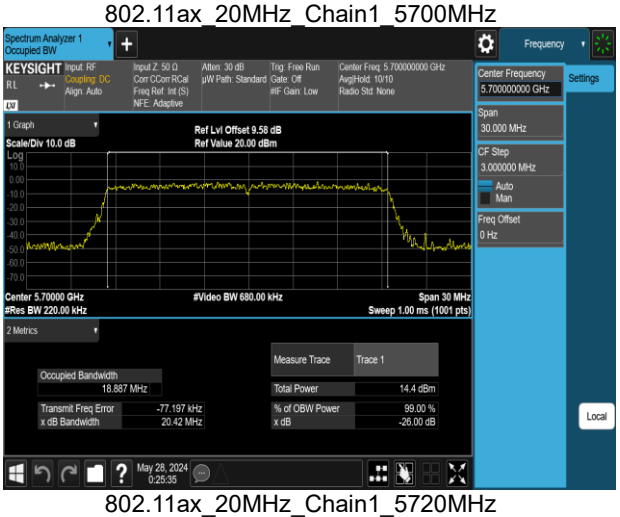
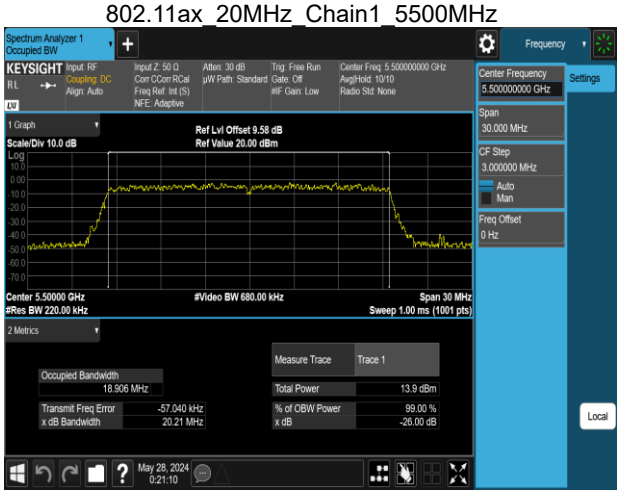
802.11ax_20MHz_Chain1_5320MHz



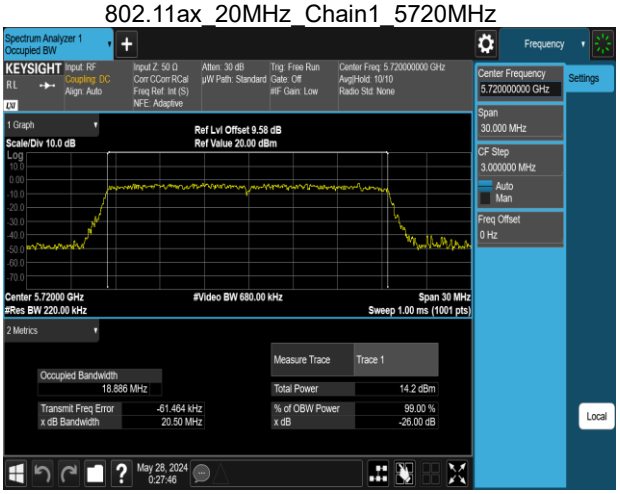
802.11ax_20MHz_Chain1_5700MHz



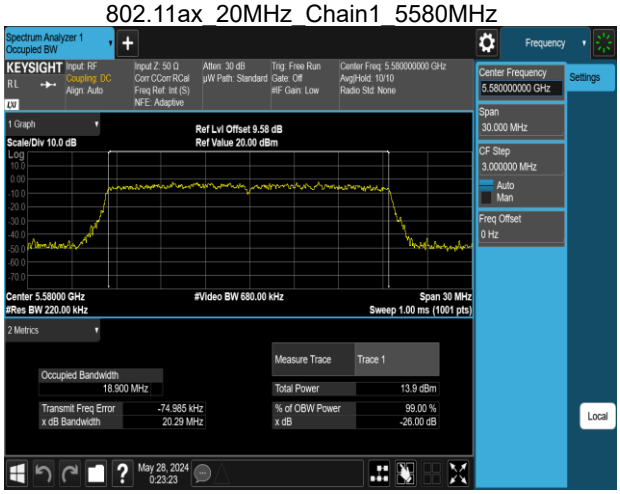
802.11ax_20MHz_Chain1_5500MHz



802.11ax_20MHz_Chain1_5720MHz



802.11ax_20MHz_Chain1_5580MHz



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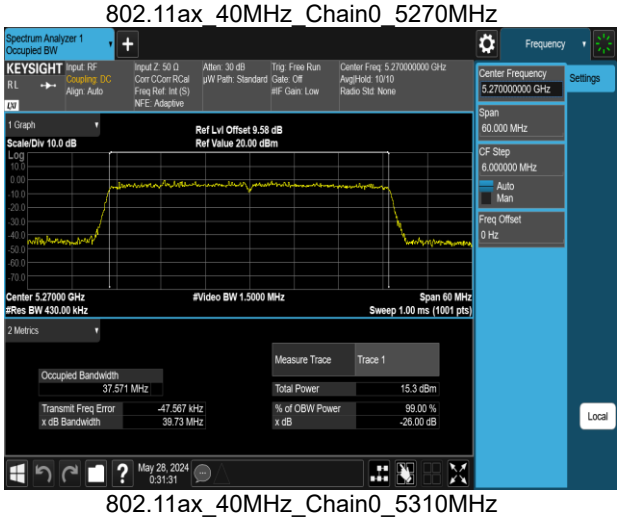
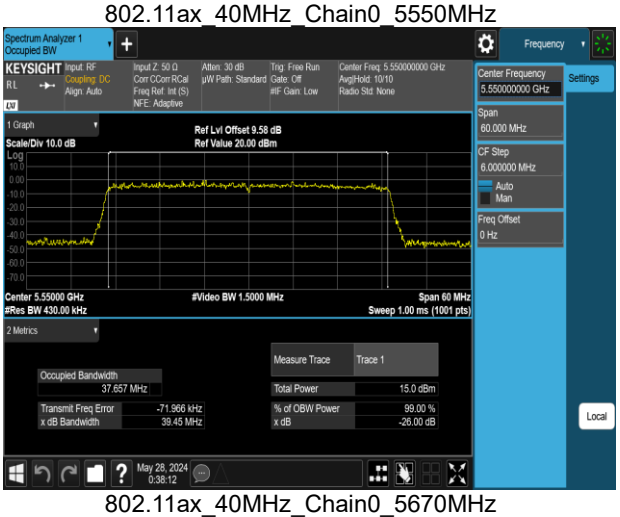
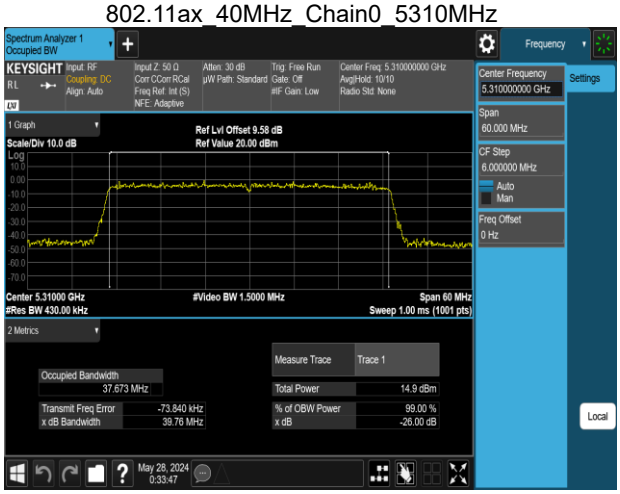
802.11ax_40MHz_Chain0_5270MHz



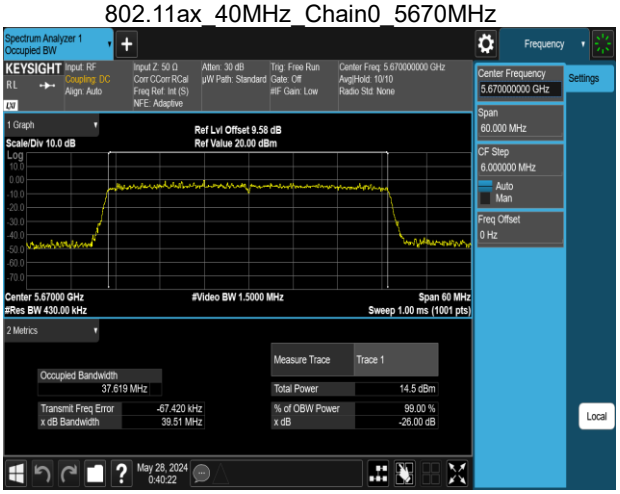
802.11ax_40MHz_Chain0_5550MHz



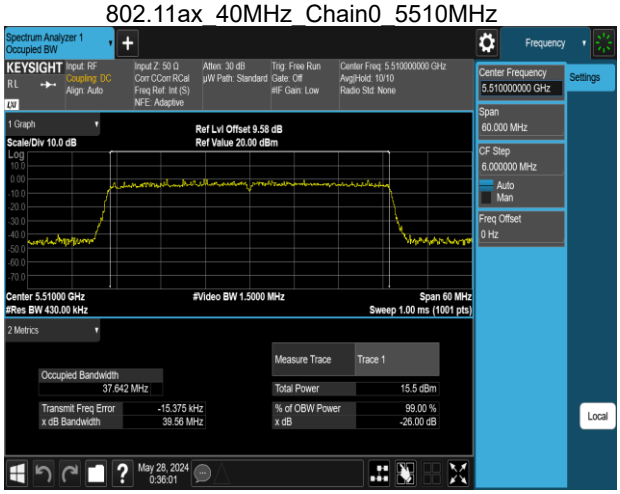
802.11ax_40MHz_Chain0_5310MHz



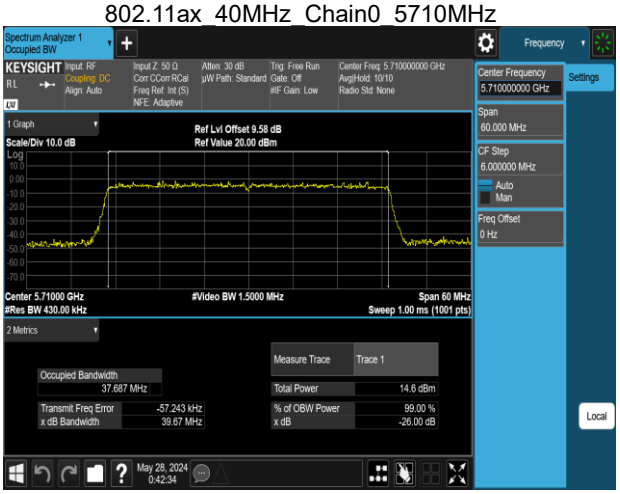
802.11ax_40MHz_Chain0_5670MHz



802.11ax_40MHz_Chain0_5510MHz



802.11ax_40MHz_Chain0_5710MHz



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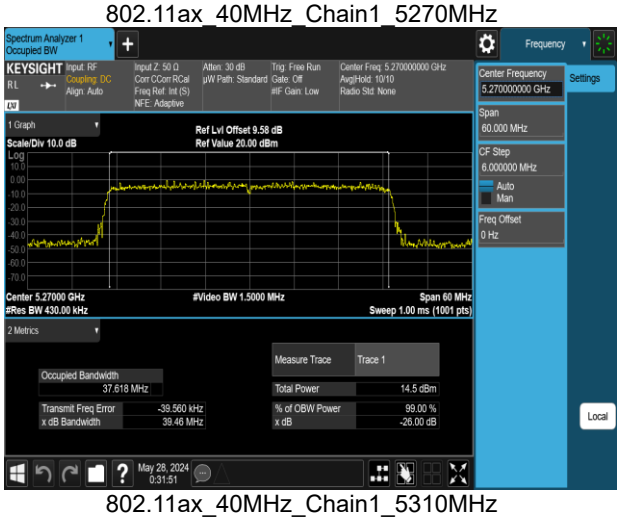
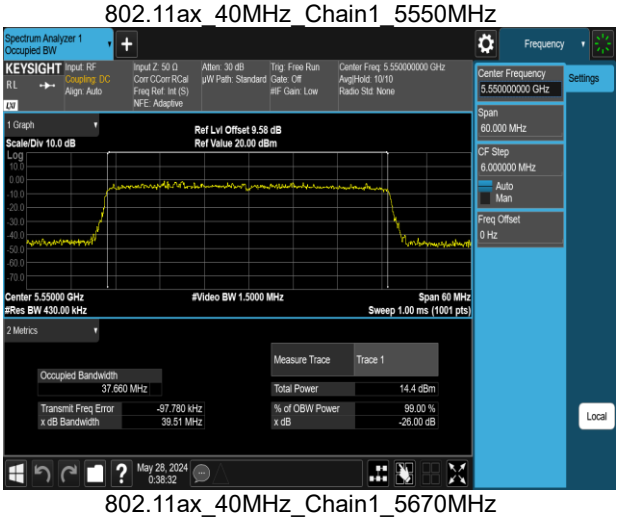
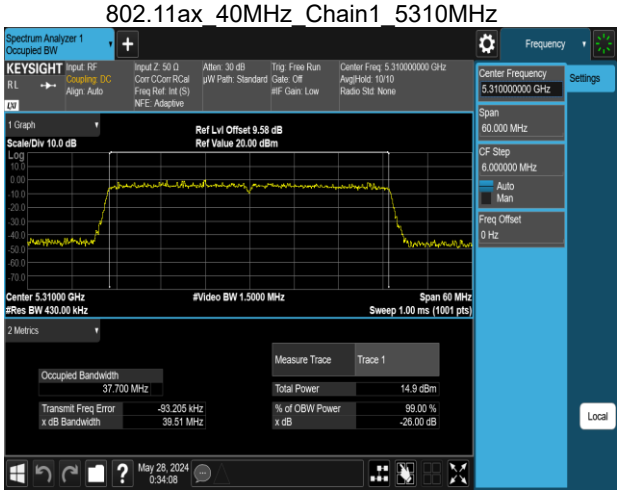
802.11ax_40MHz_Chain1_5270MHz



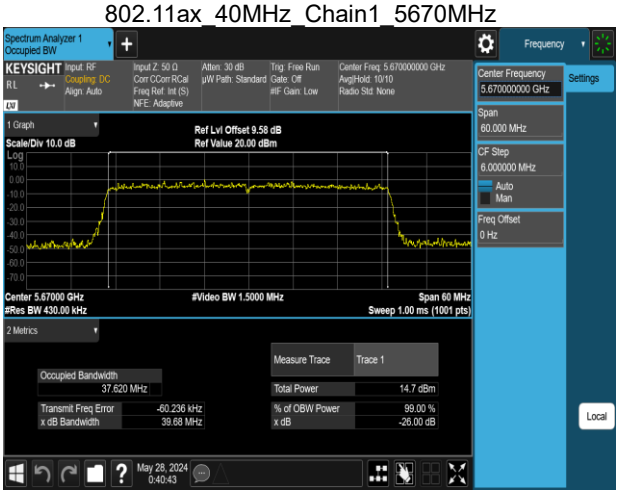
802.11ax_40MHz_Chain1_5550MHz



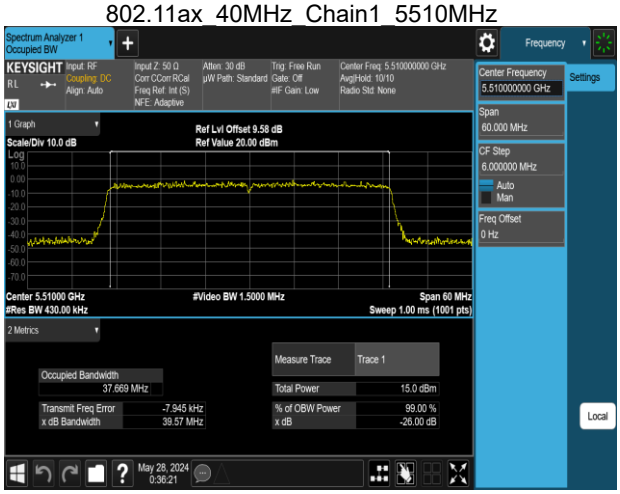
802.11ax_40MHz_Chain1_5310MHz



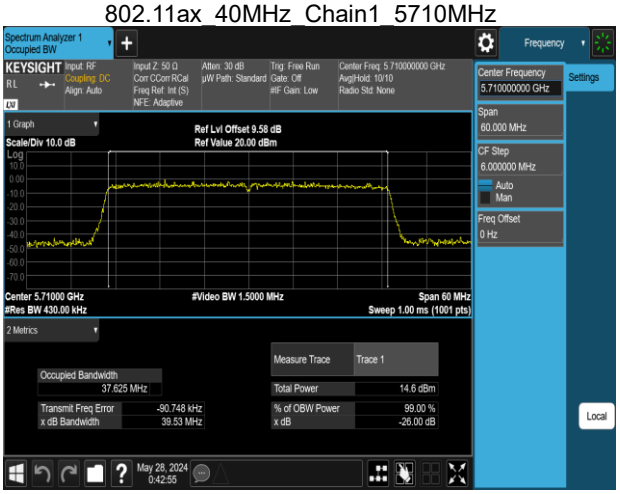
802.11ax_40MHz_Chain1_5670MHz



802.11ax_40MHz_Chain1_5510MHz



802.11ax_40MHz_Chain1_5710MHz



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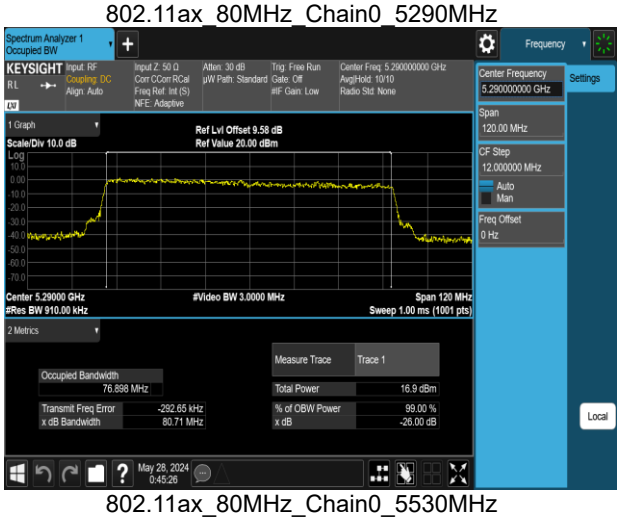
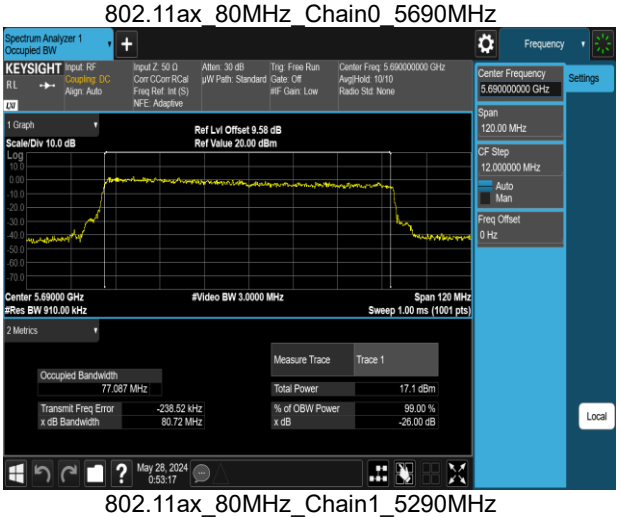
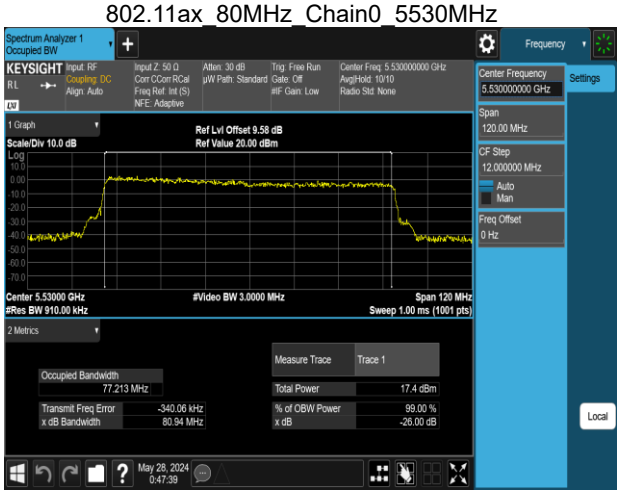
802.11ax_80MHz_Chain0_5290MHz



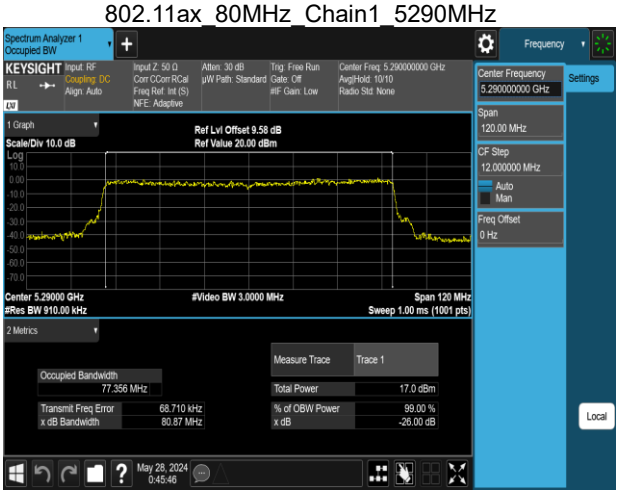
802.11ax_80MHz_Chain0_5690MHz



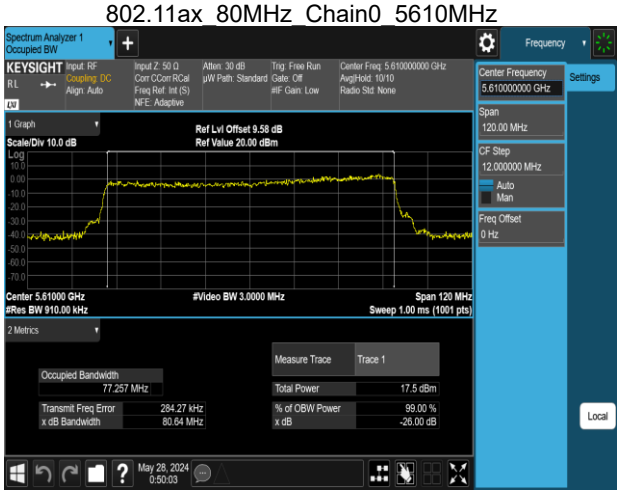
802.11ax_80MHz_Chain0_5530MHz



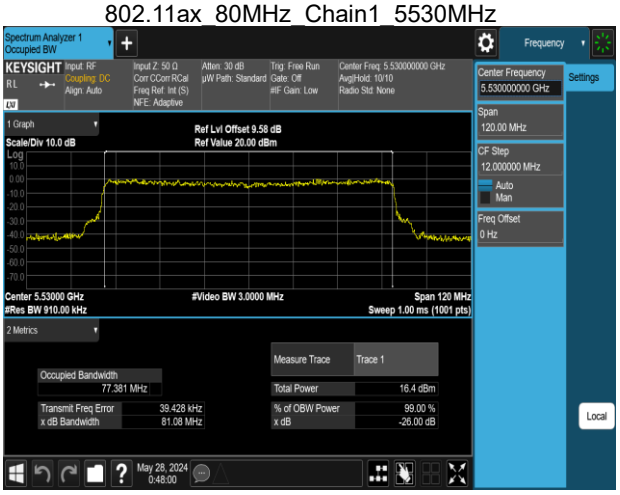
802.11ax_80MHz_Chain1_5290MHz



802.11ax_80MHz_Chain0_5610MHz



802.11ax_80MHz_Chain1_5530MHz



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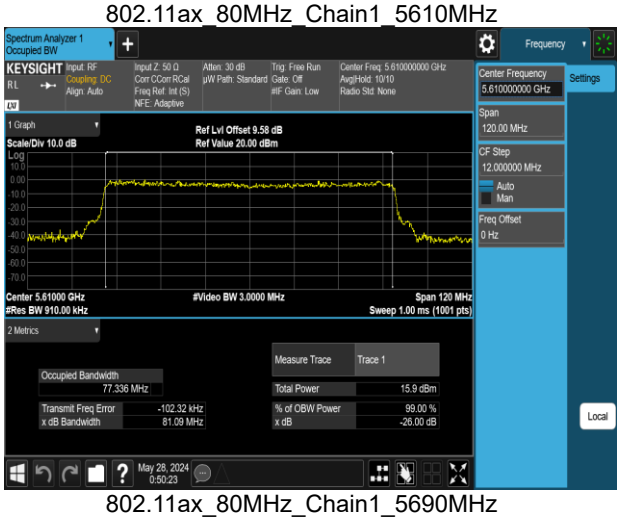
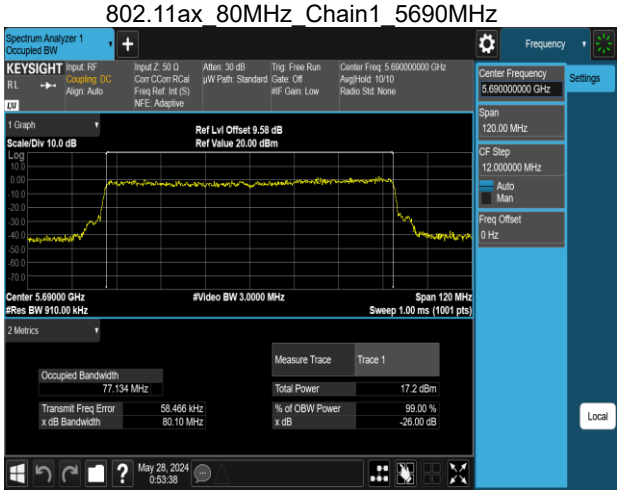
802.11ax_80MHz_Chain1_5610MHz



802.11ax_80MHz_Chain1_5690MHz



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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3)

FCC:

UNII-1 :

(iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-1 Limit	☒ Antenna not exceed 6 dBi：24dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 24 – (DG – 6)]
UNII-2a/2c Limit	☒ Antenna not exceed 6 dBi：24dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 24 – (DG – 6)]
UNII-3 Limit	☒ Antenna not exceed 6 dBi：30dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)]

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According to RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

IC:

UNII-1 :

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-2a and 2c:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-2c (5470-5600 MHz and 5650-5725 MHz)

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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UNII-1 Limit	☒ 200mW or 10 + 10 log10B for IC ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)]
UNII-2a/2c Limit	☒ 250 mW or 11 + 10 log10B for IC ☐ Antenna with DG greater than 6 dBi： [Limit = 24 – (DG – 6)]
UNII-3 Limit	☐ Antenna not exceed 6 dBi：30dBm ☒ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)]

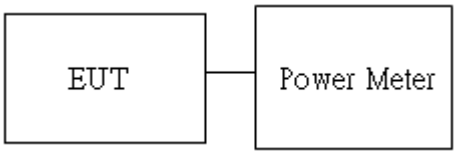
4.3.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz, 40MHz and 80MHz, E.2.b for BW 160MHz.

1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz ,40MHz and 80MHz



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4.3.4 Test Result

Original:

Temperature: 16.6 ~ 23.8℃ **Test date:** January 23 ~ March 12, 2024

Humidity: 49 ~ 66% RH **Tested by:** Marco Chan

Conducted output power：

For FCC:

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	13	9.08	9.45	12.27	16.883	23.98	PASS
44	5220	6	13.5	8.92	9.49	12.22	16.672	23.98	PASS
48	5240	6	13.5	9.19	9.48	**12.34**	17.151	23.98	PASS
149	5745	6	13	9.74	9.99	**12.87**	19.375	30	PASS
157	5785	6	11.5	9.29	9.64	12.47	17.677	30	PASS
165	5825	6	11	9.40	9.95	12.69	18.575	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	13	9.09	9.37	**12.24**	16.761	23.98	PASS
44	5220	MCS0	13.5	8.83	9.31	12.09	16.171	23.98	PASS
48	5240	MCS0	13	8.75	9.34	12.07	16.091	23.98	PASS
149	5745	MCS0	12.5	9.63	9.82	12.74	18.779	30	PASS
157	5785	MCS0	11.5	9.81	9.94	**12.89**	19.437	30	PASS
165	5825	MCS0	11	9.34	9.88	12.63	18.320	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	13	8.86	9.48	**12.20**	16.579	23.98	PASS
46	5230	MCS0	13	9.02	9.22	12.14	16.352	23.98	PASS
151	5755	MCS0	12	9.54	9.88	12.73	18.741	30	PASS
159	5795	MCS0	11.5	9.87	9.95	**12.92**	19.610	30	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	13	9.13	9.49	**12.32**	17.078	23.98	PASS
44	5220	MCS0	13.5	8.89	9.38	12.15	16.416	23.98	PASS
48	5240	MCS0	13	8.81	9.34	12.09	16.195	23.98	PASS
149	5745	MCS0	12.5	9.67	9.86	12.78	18.953	30	PASS
157	5785	MCS0	11.5	9.86	10.00	**12.94**	19.685	30	PASS
165	5825	MCS0	11	9.38	9.90	12.66	18.444	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	13	8.93	9.50	**12.24**	16.745	23.98	PASS
46	5230	MCS0	13	9.08	9.26	12.19	16.540	23.98	PASS
151	5755	MCS0	12	9.59	9.92	12.77	18.935	30	PASS
159	5795	MCS0	11.5	9.94	10.00	**12.98**	19.882	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	14	9.37	9.58	**12.49**	17.722	23.98	PASS
155	5775	MCS0	12.5	9.67	9.72	**12.70**	18.638	30	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	12.5	8.79	9.34	12.08	16.144	23.98	PASS
		MCS0	26/0	15	8.67	9.13	11.92	15.558	23.98	PASS
		MCS0	52/37	13	8.76	9.22	12.00	15.856	23.98	PASS
		MCS0	106/53	12.5	8.65	9.25	11.97	15.749	23.98	PASS
44	5220	MCS0	full	13	8.92	9.37	12.16	16.433	23.98	PASS
48	5240	MCS0	full	13	9.14	9.50	**12.33**	17.101	23.98	PASS
149	5745	MCS0	full	12	9.27	9.70	12.50	17.770	30	PASS
		MCS0	26/0	14	9.15	9.33	12.25	16.805	30	PASS
		MCS0	52/37	12	9.12	9.47	12.30	17.000	30	PASS
		MCS0	106/53	12	9.09	9.32	12.22	16.667	30	PASS
157	5785	MCS0	full	11.5	9.64	9.80	12.73	18.738	30	PASS
165	5825	MCS0	full	11	9.52	9.98	**12.76**	18.891	30	PASS
		MCS0	26/8	13.5	9.15	9.62	12.40	17.397	30	PASS
		MCS0	52/40	11.5	9.23	9.86	12.56	18.040	30	PASS
		MCS0	106/54	11	9.46	9.83	12.66	18.454	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	13	8.95	9.50	**12.24**	16.764	23.98	PASS
		MCS0	242/61	12.5	8.90	9.29	12.11	16.240	23.98	PASS
46	5230	MCS0	full	13	8.88	9.21	12.06	16.063	23.98	PASS
151	5755	MCS0	full	12	9.52	9.86	12.70	18.636	30	PASS
		MCS0	242/61	12	9.27	9.68	12.49	17.727	30	PASS
159	5795	MCS0	full	11.5	9.90	10.00	**12.96**	19.771	30	PASS
		MCS0	242/62	11	9.70	9.86	12.79	18.998	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	14	9.13	9.50	**12.33**	17.107	23.98	PASS
		MCS0	484/65	14	8.99	9.41	12.21	16.638	23.98	PASS
155	5775	MCS0	full	12	9.39	9.74	**12.58**	18.119	30	PASS
		MCS0	484/65	12	9.24	9.61	12.43	17.518	30	PASS
		MCS0	484/66	12	9.31	9.49	12.41	17.406	30	PASS

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For IC:

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
149	5745	9.74	9.99	**12.87**	**19.375**	30	PASS
157	5785	9.29	9.64	12.47	17.677	30	PASS
165	5825	9.40	9.95	12.69	18.575	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
149	5745	9.63	9.82	12.74	18.779	30	PASS
157	5785	9.81	9.94	**12.89**	**19.437**	30	PASS
165	5825	9.34	9.88	12.63	18.320	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
151	5755	9.54	9.88	12.73	18.741	30	PASS
159	5795	9.87	9.95	**12.92**	**19.610**	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
149	5745	9.67	9.86	12.78	18.953	30	PASS
157	5785	9.86	10.00	**12.94**	**19.685**	30	PASS
165	5825	9.38	9.90	12.66	18.444	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
151	5755	9.59	9.92	12.77	18.935	30	PASS
159	5795	9.94	10.00	**12.98**	**19.882**	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
155	5775	9.67	9.72	**12.70**	**18.638**	30	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
149	5745	full	9.27	9.70	12.50	17.770	30	PASS
		26/0	9.15	9.33	12.25	16.805	30	PASS
		52/37	9.12	9.47	12.30	17.000	30	PASS
		106/53	9.09	9.32	12.22	16.667	30	PASS
157	5785	full	9.64	9.80	12.73	18.738	30	PASS
165	5825	full	9.52	9.98	**12.76**	**18.891**	30	PASS
		26/8	9.15	9.62	12.40	17.397	30	PASS
		52/40	9.23	9.86	12.56	18.040	30	PASS
		106/54	9.46	9.83	12.66	18.454	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
151	5755	full	9.52	9.86	12.70	18.636	30	PASS
		242/61	9.27	9.68	12.49	17.727	30	PASS
159	5795	full	9.90	10.00	**12.96**	**19.771**	30	PASS
		242/62	9.70	9.86	12.79	18.998	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
155	5775	full	9.39	9.74	**12.58**	**18.119**	30	PASS
		484/65	9.24	9.61	12.43	17.518	30	PASS
		484/66	9.31	9.49	12.41	17.406	30	PASS

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EIRP Power:

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.27	-0.34	11.93	15.596	22.13	PASS
44	5220	12.22	-0.34	11.88	15.417	22.13	PASS
48	5240	**12.34**	-0.34	**12.00**	**15.849**	22.13	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**12.24**	-0.34	**11.90**	**15.488**	23.01	PASS
44	5220	12.09	-0.34	11.74	14.928	23.01	PASS
48	5240	12.07	-0.34	11.72	14.859	23.01	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	**12.20**	-0.34	**11.85**	**15.311**	23.01	PASS
46	5230	12.14	-0.34	11.79	15.101	23.01	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**12.32**	-0.34	**11.98**	**15.776**	23.01	PASS
44	5220	12.15	-0.34	11.81	15.171	23.01	PASS
48	5240	12.09	-0.34	11.75	14.962	23.01	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	**12.24**	-0.34	**11.89**	**15.453**	23.01	PASS
46	5230	12.19	-0.34	11.84	15.276	23.01	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	**12.49**	0.00	**12.49**	**17.742**	23.01	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	12.08	-0.34	11.74	14.928	22.76	PASS
		26/0	11.92	-0.34	11.57	14.355	22.76	PASS
		52/37	12.00	-0.34	11.66	14.655	22.76	PASS
		106/53	11.97	-0.34	11.63	14.555	22.76	PASS
44	5220	full	12.16	-0.34	11.81	15.171	22.76	PASS
48	5240	full	**12.33**	-0.34	**11.99**	**15.812**	22.76	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	**12.24**	-0.34	**11.90**	**15.488**	23.01	PASS
		242/61	12.11	-0.34	11.76	14.997	23.01	PASS
46	5230	full	**12.06**	-0.34	**11.71**	**14.825**	23.01	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	**12.33**	-0.34	11.99	15.812	23.01	PASS
		484/65	12.21	0.00	**12.21**	**16.634**	23.01	PASS

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Update:

Temperature: 21.2 ~ 21.5℃ **Test date:** May 27 ~ 28, 2024

Humidity: 59 ~ 63% RH **Tested by:** Marco Chan

Conducted output power：

For FCC:

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
52	5260	6	10	9.34	9.24	16.966	12.30	23.61	PASS
60	5300	6	10.5	9.30	9.35	17.103	12.33	23.59	PASS
64	5320	6	11.5	9.49	9.38	17.542	**12.44**	23.58	PASS
100	5500	6	9	9.37	8.82	16.253	12.11	23.63	PASS
116	5580	6	8.5	9.24	8.87	16.086	12.06	23.61	PASS
140	5700	6	8.5	9.32	9.21	16.869	**12.27**	23.62	PASS
144	5720(U-NII 2C)	6	9	8.21	7.82	12.677	11.03	22.5	PASS
144	5720 (U-NII 3)	6	9	2.97	2.48	3.750	**5.74**	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
52	5260	MCS0	10	9.46	9.16	17.082	12.33	23.81	PASS
60	5300	MCS0	10.5	9.47	9.40	17.571	**12.45**	23.82	PASS
64	5320	MCS0	11	9.24	9.16	16.645	12.21	23.84	PASS
100	5500	MCS0	9	9.48	9.23	17.257	**12.37**	23.81	PASS
116	5580	MCS0	8.5	9.21	8.91	16.126	12.08	23.81	PASS
140	5700	MCS0	8	9.39	9.03	16.697	12.23	23.83	PASS
144	5720(U-NII 2C)	MCS0	8.5	8.03	7.97	12.619	11.01	22.65	PASS
144	5720 (U-NII 3)	MCS0	8.5	3.07	2.97	4.007	**6.03**	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
52	5260	MCS0	10	9.40	9.08	16.789	12.25	23.81	PASS
60	5300	MCS0	10.5	9.39	9.32	17.228	**12.36**	23.82	PASS
64	5320	MCS0	11	9.18	9.11	16.415	12.15	23.84	PASS
100	5500	MCS0	9	9.41	9.19	17.017	**12.31**	23.81	PASS
116	5580	MCS0	8.5	9.16	8.87	15.939	12.02	23.81	PASS
140	5700	MCS0	8	9.33	8.95	16.411	12.15	23.83	PASS
144	5720(U-NII 2C)	MCS0	8.5	7.97	7.88	12.402	10.93	22.65	PASS
144	5720 (U-NII 3)	MCS0	8.5	3.00	2.88	3.938	**5.95**	30	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
54	5270	MCS0	10	9.44	9.38	17.464	**12.42**	23.98	PASS
62	5310	MCS0	10.5	9.28	9.35	17.086	12.33	23.98	PASS
102	5510	MCS0	8.5	9.49	8.99	16.821	12.26	23.98	PASS
110	5550	MCS0	8	9.45	8.98	16.721	12.23	23.98	PASS
134	5670	MCS0	7.5	9.26	9.38	17.107	**12.33**	23.98	PASS
142	5710(U-NII 2C)	MCS0	8.5	8.65	8.73	14.785	11.70	23.98	PASS
142	5710 (U-NII 3)	MCS0	8.5	-0.18	-0.39	1.874	2.73	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
54	5270	MCS0	10	9.36	9.28	17.119	**12.33**	23.98	PASS
62	5310	MCS0	10.5	9.20	9.26	16.767	12.24	23.98	PASS
102	5510	MCS0	8.5	9.39	8.88	16.432	12.16	23.98	PASS
110	5550	MCS0	8	9.37	8.89	16.410	12.15	23.98	PASS
134	5670	MCS0	7.5	9.18	9.30	16.807	**12.25**	23.98	PASS
142	5710(U-NII 2C)	MCS0	8.5	8.56	8.64	14.492	11.61	23.98	PASS
142	5710 (U-NII 3)	MCS0	8.5	-0.27	-0.47	1.837	2.64	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
58	5290	MCS0	12.5	9.22	9.39	17.040	**12.31**	23.98	PASS
106	5530	MCS0	10	9.33	9.13	16.750	**12.24**	23.98	PASS
122	5610	MCS0	10.5	9.14	8.91	15.979	12.04	23.98	PASS
138	5690(U-NII 2C)	MCS0	10.5	8.84	9.00	15.608	11.93	23.98	PASS
138	5690 (U-NII 3)	MCS0	10.5	-0.89	-0.78	1.649	2.17	30	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
52	5260	MCS0	full	10	9.44	9.26	17.243	**12.37**	23.98	PASS
60	5300	MCS0	full	10.5	9.18	9.22	16.654	12.22	23.98	PASS
64	5320	MCS0	full	11	9.12	9.16	16.426	12.16	23.98	PASS
		MCS0	26/8	13.5	8.93	9.11	15.975	12.03	23.98	PASS
		MCS0	52/40	11.5	9.08	8.94	15.909	12.02	23.98	PASS
		MCS0	106/54	11	8.92	9.07	15.877	12.01	23.98	PASS
100	5500	MCS0	full	9	9.49	8.96	16.781	12.25	23.98	PASS
		MCS0	26/0	11.5	9.30	8.84	16.179	12.09	23.98	PASS
		MCS0	52/37	9.5	9.41	8.82	16.334	12.13	23.98	PASS
		MCS0	106/53	9	9.42	8.90	16.519	12.18	23.98	PASS
116	5580	MCS0	full	9	9.46	9.21	17.187	**12.35**	23.98	PASS
140	5700	MCS0	full	8.5	9.27	9.15	16.694	12.23	23.98	PASS
		MCS0	26/8	11	9.13	9.04	16.213	12.10	23.98	PASS
		MCS0	52/40	9	9.21	8.88	16.048	12.05	23.98	PASS
		MCS0	106/54	8.5	9.16	9.08	16.339	12.13	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	9	8.09	7.97	12.702	11.04	22.78	PASS
144	5720 (U-NII 3)	MCS0	full	9	3.35	3.34	4.321	**6.36**	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
54	5270	MCS0	full	10	9.46	9.24	17.225	12.36	23.98	PASS
62	5310	MCS0	full	11	9.37	9.49	17.541	**12.44**	23.98	PASS
		MCS0	242/62	11	9.24	9.39	17.103	12.33	23.98	PASS
102	5510	MCS0	full	8.5	9.48	9.11	17.018	12.31	23.98	PASS
		MCS0	242/61	8.5	9.37	8.90	16.431	12.16	23.98	PASS
110	5550	MCS0	full	8	9.32	8.88	17.018	12.12	23.98	PASS
134	5670	MCS0	full	7.5	9.37	9.27	17.102	**12.33**	23.98	PASS
		MCS0	242/62	7.5	9.14	8.95	16.074	12.06	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	8.5	8.58	8.67	14.569	11.63	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	8.5	0.00	0.04	2.009	3.03	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
58	5290	MCS0	full	12	9.38	9.49	17.572	**12.45**	23.98	PASS
		MCS0	484/66	11	8.94	9.09	15.928	12.02	23.98	PASS
106	5530	MCS0	full	9.5	9.42	9.49	17.652	**12.47**	23.98	PASS
		MCS0	484/65	9.5	9.31	9.26	16.947	12.29	23.98	PASS
122	5610	MCS0	full	10.5	9.47	8.64	16.172	12.09	23.98	PASS
		MCS0	484/66	10.5	9.38	8.33	15.462	11.89	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	10	9.06	9.00	16.004	12.04	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	10	-2.42	-2.72	1.108	0.44	30	PASS

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For IC:

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	9.34	9.24	16.966	12.30	23.13	PASS
60	5300	9.30	9.35	17.103	12.33	23.13	PASS
64	5320	9.49	9.38	**17.542**	**12.44**	23.13	PASS
100	5500	9.37	8.82	16.253	12.11	23.14	PASS
116	5580	9.24	8.87	16.086	12.06	23.13	PASS
140	5700	9.32	9.21	**16.869**	**12.27**	23.14	PASS
144	5720(U-NII 2C)	8.21	7.82	12.677	11.03	22.2	PASS
144	5720 (U-NII 3)	2.97	2.48	3.750	5.74	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	9.46	9.16	17.082	12.33	23.43	PASS
60	5300	9.47	9.40	**17.571**	**12.45**	23.43	PASS
64	5320	9.24	9.16	16.645	12.21	23.43	PASS
100	5500	9.48	9.23	**17.257**	**12.37**	23.44	PASS
116	5580	9.21	8.91	16.126	12.08	23.43	PASS
140	5700	9.39	9.03	16.697	12.23	23.43	PASS
144	5720(U-NII 2C)	8.03	7.97	12.619	11.01	22.38	PASS
144	5720 (U-NII 3)	3.07	2.97	4.007	6.03	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	9.40	9.08	16.789	12.25	23.43	PASS
60	5300	9.39	9.32	**17.228**	**12.36**	23.43	PASS
64	5320	9.18	9.11	16.415	12.15	23.43	PASS
100	5500	9.41	9.19	**17.017**	**12.31**	23.44	PASS
116	5580	9.16	8.87	15.939	12.02	23.43	PASS
140	5700	9.33	8.95	16.411	12.15	23.43	PASS
144	5720(U-NII 2C)	7.97	7.88	12.402	10.93	22.38	PASS
144	5720 (U-NII 3)	3.00	2.88	3.938	5.95	30	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	9.44	9.38	**17.464**	**12.42**	23.98	PASS
62	5310	9.28	9.35	17.086	12.33	23.98	PASS
102	5510	9.49	8.99	16.821	12.26	23.98	PASS
110	5550	9.45	8.98	16.721	12.23	23.98	PASS
134	5670	9.26	9.38	**17.107**	**12.33**	23.98	PASS
142	5710(U-NII 2C)	8.65	8.73	14.785	11.70	23.98	PASS
142	5710 (U-NII 3)	-0.18	-0.39	1.874	2.73	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	9.36	9.28	**17.119**	**12.33**	23.98	PASS
62	5310	9.20	9.26	16.767	12.24	23.98	PASS
102	5510	9.39	8.88	16.432	12.16	23.98	PASS
110	5550	9.37	8.89	16.410	12.15	23.98	PASS
134	5670	9.18	9.30	**16.807**	**12.25**	23.98	PASS
142	5710(U-NII 2C)	8.56	8.64	14.492	11.61	23.98	PASS
142	5710 (U-NII 3)	-0.27	-0.47	1.837	2.64	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
58	5290	9.22	9.39	**17.040**	**12.31**	23.98	PASS
106	5530	9.33	9.13	**16.750**	**12.24**	23.98	PASS
122	5610	9.14	8.91	15.979	12.04	23.98	PASS
138	5690(U-NII 2C)	8.84	9.00	15.608	11.93	23.98	PASS
138	5690 (U-NII 3)	-0.89	-0.78	1.649	2.17	30	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
52	5260	full	9.44	9.26	**17.243**	**12.37**	23.76	PASS
60	5300	full	9.18	9.22	16.654	12.22	23.76	PASS
64	5320	full	9.12	9.16	16.426	12.16	23.76	PASS
		26/8	8.93	9.11	15.975	12.03	23.76	PASS
		52/40	9.08	8.94	15.909	12.02	23.76	PASS
		106/54	8.92	9.07	15.877	12.01	23.76	PASS
100	5500	full	9.49	8.96	16.781	12.25	23.76	PASS
		26/0	9.30	8.84	16.179	12.09	23.76	PASS
		52/37	9.41	8.82	16.334	12.13	23.76	PASS
		106/53	9.42	8.90	16.519	12.18	23.76	PASS
116	5580	full	9.46	9.21	**17.187**	**12.35**	23.76	PASS
140	5700	full	9.27	9.15	16.694	12.23	23.76	PASS
		26/8	9.13	9.04	16.213	12.10	23.76	PASS
		52/40	9.21	8.88	16.048	12.05	23.76	PASS
		106/54	9.16	9.08	16.339	12.13	23.76	PASS
144	5720(U-NII 2C)	full	8.09	7.97	12.702	11.04	22.6	PASS
144	5720 (U-NII 3)	full	3.35	3.34	4.321	6.36	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
54	5270	full	9.46	9.24	17.225	12.36	23.98	PASS
62	5310	full	9.37	9.49	**17.541**	**12.44**	23.98	PASS
		242/62	9.24	9.39	17.103	12.33	23.98	PASS
102	5510	full	9.48	9.11	17.018	12.31	23.98	PASS
		242/61	9.37	8.90	16.431	12.16	23.98	PASS
110	5550	full	9.32	8.88	16.277	12.12	23.98	PASS
134	5670	full	9.37	9.27	**17.102**	**12.33**	23.98	PASS
		242/62	9.14	8.95	16.074	12.06	23.98	PASS
142	5710(U-NII 2C)	full	8.58	8.67	14.569	11.63	23.98	PASS
142	5710 (U-NII 3)	full	0.00	0.04	2.009	3.03	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
58	5290	full	9.38	9.49	**17.572**	**12.45**	23.98	PASS
		484/66	8.94	9.09	15.928	12.02	23.98	PASS
106	5530	full	9.42	9.49	**17.652**	**12.47**	23.98	PASS
		484/65	9.31	9.26	16.947	12.29	23.98	PASS
122	5610	full	9.47	8.64	16.172	12.09	23.98	PASS
138	5690(U-NII 2C)	full	9.06	9.00	16.004	12.04	23.98	PASS
138	5690 (U-NII 3)	full	-2.42	-2.72	1.108	0.44	30	PASS

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EIRP Power:

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.30	-0.34	15.668	11.95	29.13	PASS
60	5300	12.33	-0.34	15.812	11.99	29.13	PASS
64	5320	**12.44**	-0.34	**16.218**	**12.10**	29.13	PASS
100	5500	**12.11**	-0.34	**14.997**	**11.76**	29.14	PASS
116	5580	12.06	-0.34	14.859	11.72	29.13	PASS
140	5700	**12.27**	-0.34	**15.596**	**11.93**	29.14	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.33	-0.34	15.776	11.98	29.43	PASS
60	5300	**12.45**	-0.34	**16.218**	**12.10**	29.43	PASS
64	5320	12.21	-0.34	15.382	11.87	29.43	PASS
100	5500	**12.37**	-0.34	**15.922**	**12.02**	29.44	PASS
116	5580	12.08	-0.34	14.894	11.73	29.43	PASS
140	5700	**12.23**	-0.34	**15.417**	**11.88**	29.43	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.25	-0.34	15.524	11.91	29.43	PASS
60	5300	**12.36**	-0.34	**15.922**	**12.02**	29.43	PASS
64	5320	12.15	-0.34	15.171	11.81	29.43	PASS
100	5500	**12.31**	-0.34	**15.704**	**11.96**	29.44	PASS
116	5580	12.02	-0.34	14.723	11.68	29.43	PASS
140	5700	**12.15**	-0.34	**15.171**	**11.81**	29.43	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**12.42**	-0.34	**16.144**	**12.08**	30	PASS
62	5310	12.33	-0.34	15.776	11.98	30	PASS
102	5510	**12.26**	-0.34	**15.524**	**11.91**	30	PASS
110	5550	12.23	-0.34	15.453	11.89	30	PASS
134	5670	**12.33**	-0.34	**15.812**	**11.99**	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**12.33**	-0.34	**15.812**	**11.99**	30	PASS
62	5310	12.24	-0.34	15.488	11.90	30	PASS
102	5510	**12.16**	-0.34	**15.171**	**11.81**	30	PASS
110	5550	12.15	-0.34	**15.171**	**11.81**	30	PASS
134	5670	**12.25**	-0.34	**15.524**	**11.91**	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
58	5290	**12.31**	-0.34	**15.740**	**11.97**	30	PASS
106	5530	**12.31**	-0.34	**15.740**	**11.97**	30	PASS
122	5610	12.24	-0.34	15.488	11.90	30	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	full	**12.37**	-0.34	**15.922**	**12.02**	29.76	PASS
60	5300	full	12.22	-0.34	15.382	11.87	29.76	PASS
64	5320	full	12.16	-0.34	15.171	11.81	29.76	PASS
		26/8	12.03	-0.34	14.757	11.69	29.76	PASS
		52/40	12.02	-0.34	14.689	11.67	29.76	PASS
		106/54	12.01	-0.34	14.655	11.66	29.76	PASS
100	5500	full	12.25	-0.34	15.488	11.90	29.76	PASS
		26/0	12.09	-0.34	14.928	11.74	29.76	PASS
		52/37	12.13	-0.34	15.101	11.79	29.76	PASS
		106/53	12.18	-0.34	15.276	11.84	29.76	PASS
116	5580	full	**12.35**	-0.34	**15.885**	**12.01**	29.76	PASS
140	5700	full	12.23	-0.34	15.417	11.88	29.76	PASS
		26/8	**12.10**	-0.34	**14.962**	**11.75**	29.76	PASS
		52/40	12.05	-0.34	14.825	11.71	29.76	PASS
		106/54	**12.13**	-0.34	**15.101**	**11.79**	29.76	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	full	12.36	-0.34	15.922	12.02	30	PASS
62	5310	full	**12.44**	-0.34	**16.218**	**12.10**	30	PASS
		242/62	12.33	-0.34	15.812	11.99	30	PASS
102	5510	full	12.31	-0.34	15.704	11.96	30	PASS
		242/61	12.16	-0.34	15.171	11.81	30	PASS
110	5550	full	12.12	-0.34	15.031	11.77	30	PASS
134	5670	full	**12.33**	-0.34	**15.812**	**11.99**	30	PASS
		242/62	**12.06**	-0.34	**14.859**	**11.72**	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
58	5290	full	12.45	-0.34	16.218	12.10	30	PASS
		484/66	12.02	-0.34	14.723	11.68	30	PASS
106	5530	full	**12.45**	-0.34	**16.218**	**12.10**	30	PASS
		484/65	**12.02**	-0.34	**14.723**	**11.68**	30	PASS
122	5610	full	**12.47**	-0.34	**16.293**	**12.12**	30	PASS
		484/66	**12.29**	-0.34	**15.668**	**11.95**	30	PASS

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4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3) and RSS-247 section 6.2.1(1), section 6.2.2(1), section 6.2.3(1) and section 6.2.4(1)

UNII-1 :
FCC:
The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

IC:
The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-2a and 2c:
The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.
If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3:
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-1 Limit	☒ Antenna not exceed 6 dBi：11 dBm ☒ IC: 10dB/MHz ☐ Antenna with DG greater than 6 dBi： [Limit = 11 – (DG – 6)]
UNII-2a Limit	☒ Antenna not exceed 6 dBi：11 dBm/MHz ☐ Antenna with DG greater than 6 dBi： [Limit = 11 – (DG – 6)]
UNII-2c Limit	☒ Antenna not exceed 6 dBi：11 dBm/MHz ☐ Antenna with DG greater than 6 dBi： [Limit = 11 – (DG – 6)]
UNII-3 Limit	☒ Antenna not exceed 6 dBi：30 dBm/500kHz ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6) dBm/500kHz]

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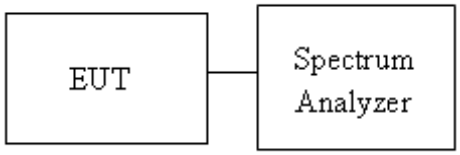
4.4.2 Test Procedure

Test method Refer as KDB 789033 D02

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. UNII-1, UNII-2a and UNII-2c, SA set RBW = 1MHz, VBW = 3MHz and Detector = RMS, to measurement Power Density.
4. UNII-3, SA set RBW = 500kHz, VBW = 2MHz and Detector = RMS, to measurement Power Density
5. The path loss and Duty Factor were compensated to the results for each measurement by SA.
6. Mark the maximum level.
7. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



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4.4.4 Test Result

Original:

Temperature: 16.6 ~ 23.8℃ **Test date:** January 23 ~ March 12, 2024

Humidity: 49 ~ 66% RH **Tested by:** Marco Chan

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-2.910	-1.964	0.00	0.60		11.00 dBm/MHz	-10.40
5220	-3.132	-2.296	0.00	0.32		11.00 dBm/MHz	-10.68
5240	-3.186	-2.928	0.00	-0.04		11.00 dBm/MHz	-11.04
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-7.280	-7.087	0.00	2.22	-1.95	30.00 dBm/500kHz	-31.95
5785	-7.747	-7.576	0.00	2.22	-2.43	30.00 dBm/500kHz	-32.43
5825	-7.708	-7.239	0.00	2.22	-2.24	30.00 dBm/500kHz	-32.24

POWER DENSITY 802.11ac VHT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-3.462	-2.321	0.00	0.16		11.00 dBm/MHz	-10.84
5220	-3.495	-3.255	0.00	-0.36		11.00 dBm/MHz	-11.36
5240	-3.984	-3.437	0.00	-0.69		11.00 dBm/MHz	-11.69
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-7.913	-7.795	0.00	2.22	-2.62	30.00 dBm/500kHz	-32.62
5785	-7.706	-7.788	0.00	2.22	-2.52	30.00 dBm/500kHz	-32.52
5825	-7.565	-7.444	0.00	2.22	-2.27	30.00 dBm/500kHz	-32.27

POWER DENSITY 802.11ac VHT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-7.290	-6.099	0.00	-3.64		11.00 dBm/MHz	-14.64
5230	-7.318	-6.667	0.00	-3.97		11.00 dBm/MHz	-14.97
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-11.416	-11.253	0.00	2.22	-6.10	30.00 dBm/500kHz	-36.10
5795	-10.377	-9.972	0.00	2.22	-4.94	30.00 dBm/500kHz	-34.94

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POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-5.797	-8.710	0.11	-3.89		11.00 dBm/MHz	-14.89
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-10.531	-12.720	0.11	2.22	-6.15	30.00 dBm/500kHz	-36.15

POWER DENSITY 802.11ax HE20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	-3.805	-2.709	0.00	-0.21		11.00 dBm/MHz	-11.21
5220	full	-4.339	-3.576	0.00	-0.93		11.00 dBm/MHz	-11.93
5240	full	-4.124	-3.479	0.00	-0.78		11.00 dBm/MHz	-11.78
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	full	-8.665	-8.030	0.00	2.22	-3.11	30.00 dBm/500kHz	-33.11
5785	full	-7.539	-7.856	0.00	2.22	-2.46	30.00 dBm/500kHz	-32.46
5825	full	-7.890	-6.948	0.00	2.22	-2.16	30.00 dBm/500kHz	-32.16

POWER DENSITY 802.11ax HE40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-7.305	-5.786	0.00	-3.47		11.00 dBm/MHz	-14.47
5230	full	-7.411	-6.717	0.00	-4.04		11.00 dBm/MHz	-15.04
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	full	-11.487	-11.237	0.00	2.22	-6.13	30.00 dBm/500kHz	-36.13
5795	full	-11.078	-10.508	0.00	2.22	-5.55	30.00 dBm/500kHz	-35.55

POWER DENSITY 802.11ax HE80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-5.715	-8.512	0.12	-3.76		11.00 dBm/MHz	-14.76
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	full	-10.939	-12.710	0.12	2.22	-6.38	30.00 dBm/500kHz	-36.38

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EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.599	2.59	3.19	10	-6.81
5220	0.316	2.59	2.91	10	-7.09
5240	-0.045	2.59	2.55	10	-7.45

EIRP spectral density 802.11ac VHT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.156	2.59	2.75	10	-7.25
5220	-0.363	2.59	2.23	10	-7.77
5240	-0.692	2.59	1.90	10	-8.10

EIRP spectral density 802.11ac VHT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	-3.644	2.59	-1.05	10	-11.05
5230	-3.970	2.59	-1.38	10	-11.38

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.893	3.01	-0.88	10	-10.88

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EIRP spectral density 802.11ax HE20 MODE						
Freq. (MHz)	**RU config.**	**PSD (dBm)**	**Ant. Gain (dBi)**	**EIRP PSD (dBm)**	**Limit (dBm)**	**Margin (dB)**
5180	full	-0.212	2.59	2.38	10	-7.62
5220	full	-0.930	2.59	1.66	10	-8.34
5240	full	-0.779	2.59	1.81	10	-8.19

EIRP spectral density 802.11ax HE40 MODE						
Freq. (MHz)	**RU config.**	**PSD (dBm)**	**Ant. Gain (dBi)**	**EIRP PSD (dBm)**	**Limit (dBm)**	**Margin (dB)**
5190	full	-3.469	2.59	-0.88	10	-10.88
5230	full	-4.040	2.59	-1.45	10	-11.45

EIRP spectral density 802.11ax HE80 MODE						
Freq. (MHz)	**RU config.**	**PSD (dBm)**	**Ant. Gain (dBi)**	**EIRP PSD (dBm)**	**Limit (dBm)**	**Margin (dB)**
5210	full	-3.762	2.59	-1.17	10	-11.17

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Update:

Temperature: 21.2 ~ 21.5℃ **Test date:** May 27 ~ 28, 2024

Humidity: 59 ~ 63% RH **Tested by:** Marco Chan

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5260	-2.838	-2.959	0.00	0.11		11.00 dBm/MHz	-10.89
5300	-2.662	-2.564	0.00	0.40		11.00 dBm/MHz	-10.60
5320	-2.581	-2.511	0.00	0.46		11.00 dBm/MHz	-10.54
5500	-2.349	-2.722	0.00	0.48		11.00 dBm/MHz	-10.52
5580	-2.621	-3.689	0.00	-0.11		11.00 dBm/MHz	-11.11
5700	-3.311	-3.011	0.00	-0.15		11.00 dBm/MHz	-11.15
5720 (U-NII 2C)	-2.119	-2.719	0.00	0.60		11.00 dBm/MHz	-10.40
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-7.646	-7.943	0.00	2.22	-2.56	30.00 dBm/500kHz	-32.56

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5260	-2.595	-2.908	0.00	0.26		11.00 dBm/MHz	-10.74
5300	-2.841	-2.854	0.00	0.16		11.00 dBm/MHz	-10.84
5320	-3.362	-3.027	0.00	-0.18		11.00 dBm/MHz	-11.18
5500	-2.555	-3.051	0.00	0.21		11.00 dBm/MHz	-10.79
5580	-2.811	-4.032	0.00	-0.37		11.00 dBm/MHz	-11.37
5700	-3.800	-3.595	0.00	-0.69		11.00 dBm/MHz	-11.69
5720 (U-NII 2C)	-4.019	-3.538	0.00	-0.76		11.00 dBm/MHz	-11.76
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-9.439	-8.937	0.00	2.22	-3.95	30.00 dBm/500kHz	-33.95

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5270	-5.658	-5.684	0.10	-2.56		11.00 dBm/MHz	-13.56
5310	-6.217	-6.308	0.10	-3.15		11.00 dBm/MHz	-14.15
5510	-5.291	-5.785	0.10	-2.42		11.00 dBm/MHz	-13.42
5550	-5.487	-6.101	0.10	-2.67		11.00 dBm/MHz	-13.67
5670	-6.669	-6.089	0.10	-3.26		11.00 dBm/MHz	-14.26
5710 (U-NII 2C)	-6.089	-5.850	0.10	-2.86		11.00 dBm/MHz	-13.86
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-12.789	-12.853	0.10	2.22	-7.49	30.00 dBm/500kHz	-37.49

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POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5290	-6.166	-6.370	0.11	-3.15		11.00 dBm/MHz	-14.15
5530	-4.727	-7.154	0.11	-2.65		11.00 dBm/MHz	-13.65
5610	-4.227	-7.839	0.11	-2.55		11.00 dBm/MHz	-13.55
5690 (U-NII 2C)	-5.563	-5.821	0.11	-2.57		11.00 dBm/MHz	-13.57
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-15.171	-10.503	0.11	2.22	-6.90	30.00 dBm/500kHz	-36.90

POWER DENSITY 802.11ax HE20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5260	full	-2.286	-2.698	0.00	0.52		11.00 dBm/MHz	-10.48
5300	full	-2.663	-2.860	0.00	0.25		11.00 dBm/MHz	-10.75
5320	full	-3.404	-3.096	0.00	-0.24		11.00 dBm/MHz	-11.24
5500	full	-2.362	-2.969	0.00	0.36		11.00 dBm/MHz	-10.64
5580	full	-1.366	-3.404	0.00	0.74		11.00 dBm/MHz	-10.26
5700	full	-3.411	-2.953	0.00	-0.17		11.00 dBm/MHz	-11.17
5720 (U-NII 2C)	full	-3.321	-3.296	0.00	-0.30		11.00 dBm/MHz	-11.30
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-8.624	-8.992	0.00	2.22	-3.57	30.00 dBm/500kHz	-33.57

POWER DENSITY 802.11ax HE40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5270	full	-5.858	-5.735	0.00	-2.79		11.00 dBm/MHz	-13.79
5310	full	-5.977	-5.890	0.00	-2.92		11.00 dBm/MHz	-13.92
5510	full	-5.368	-5.526	0.00	-2.44		11.00 dBm/MHz	-13.44
5550	full	-5.794	-6.511	0.00	-3.13		11.00 dBm/MHz	-14.13
5670	full	-6.309	-6.125	0.00	-3.21		11.00 dBm/MHz	-14.21
5710 (U-NII 2C)	full	-6.224	-6.023	0.00	-3.11		11.00 dBm/MHz	-14.11
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	full	-12.944	-13.069	0.00	2.22	-7.78	30.00 dBm/500kHz	-37.78

POWER DENSITY 802.11ax HE80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5290	full	-6.240	-6.992	0.12	-3.47		11.00 dBm/MHz	-14.47
5530	full	-5.235	-7.735	0.12	-3.18		11.00 dBm/MHz	-14.18
5610	full	-4.364	-8.051	0.12	-2.70		11.00 dBm/MHz	-13.70
5690 (U-NII 2C)	full	-5.622	-6.411	0.12	-2.87		11.00 dBm/MHz	-13.87
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	full	-14.414	-11.312	0.12	2.22	-7.24	30.00 dBm/500kHz	-37.24

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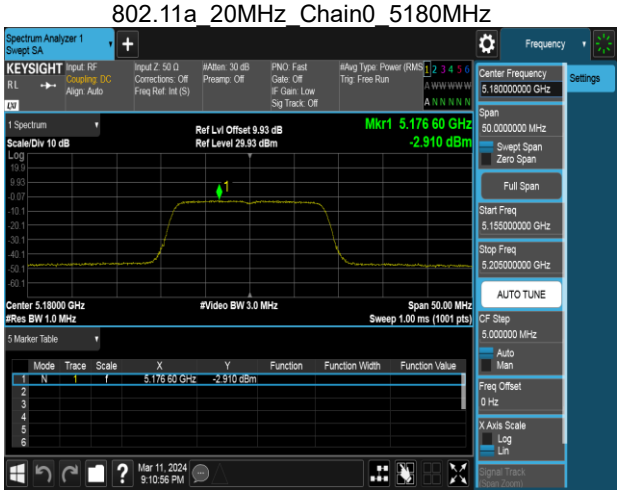
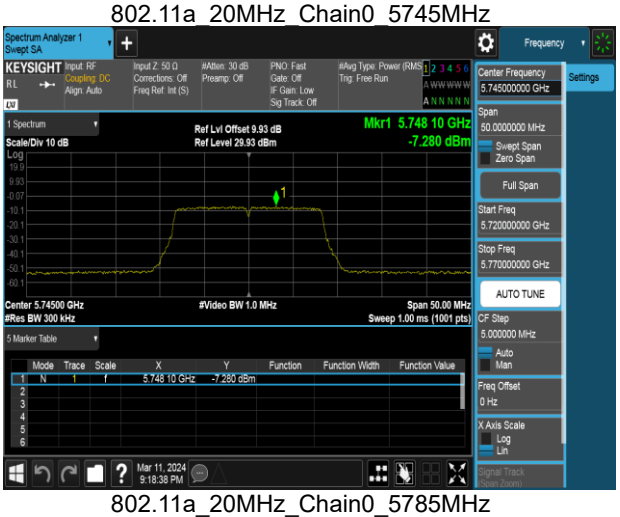
Test Data

Original:

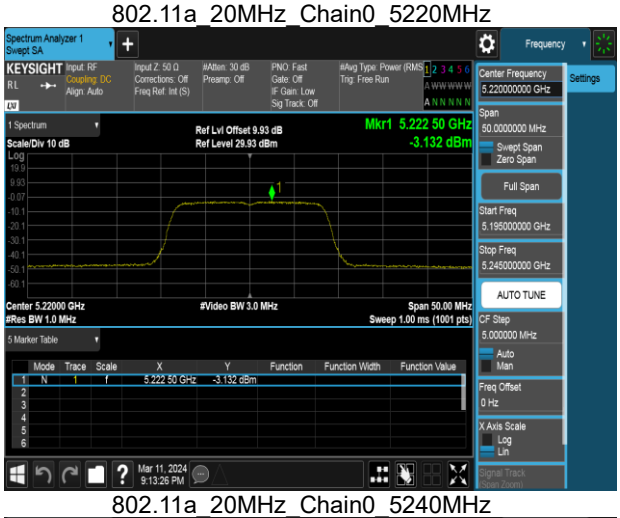
802.11a_20MHz_Chain0_5180MHz



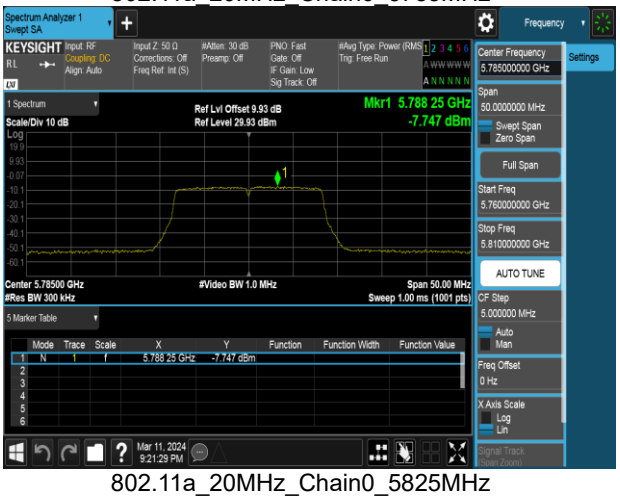
802.11a_20MHz_Chain0_5745MHz



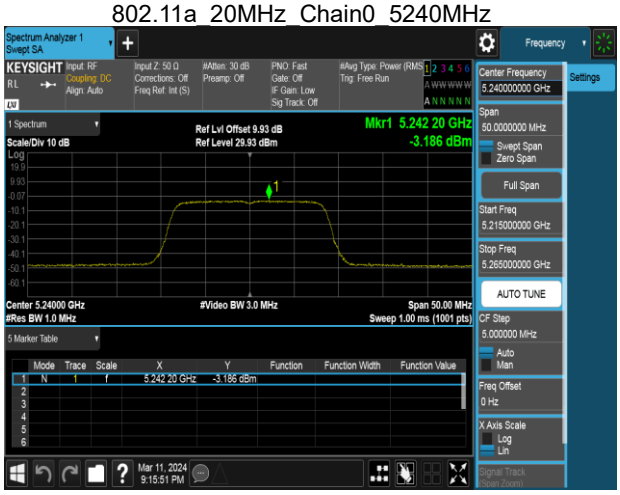
802.11a_20MHz_Chain0_5220MHz



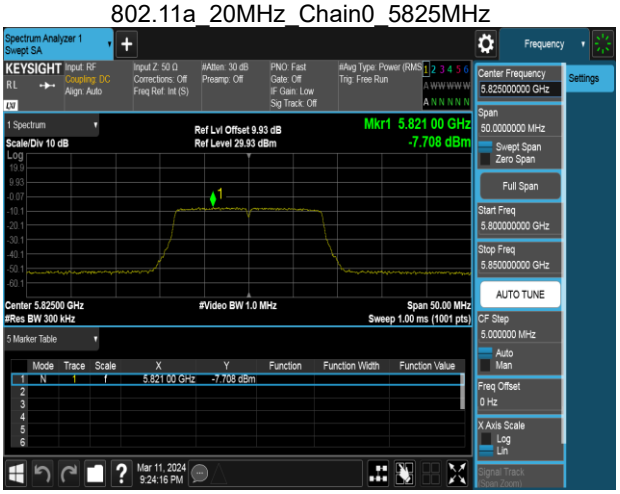
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5825MHz



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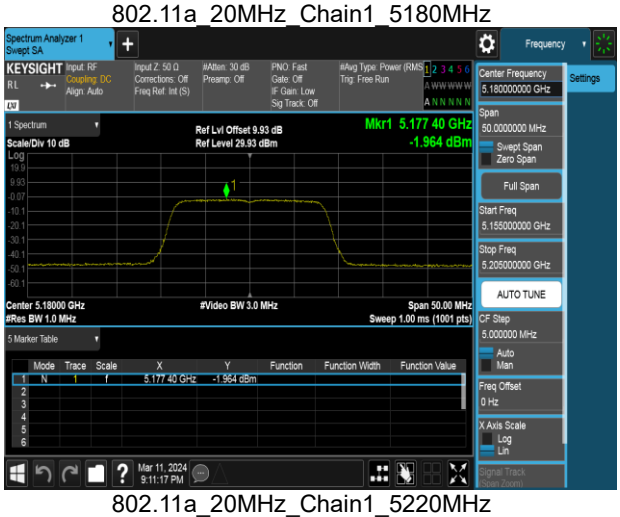
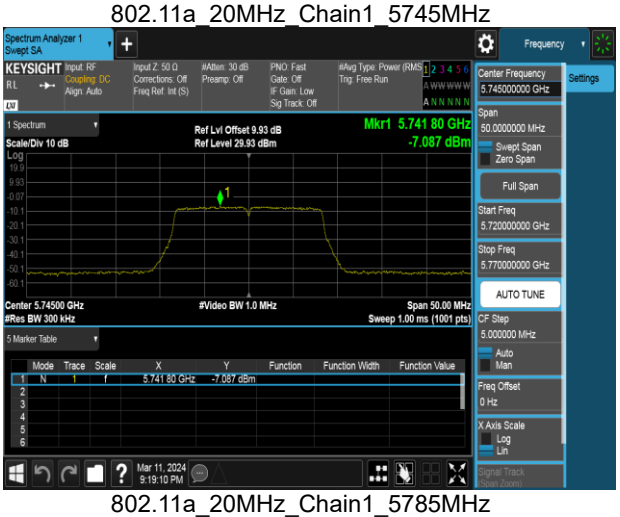
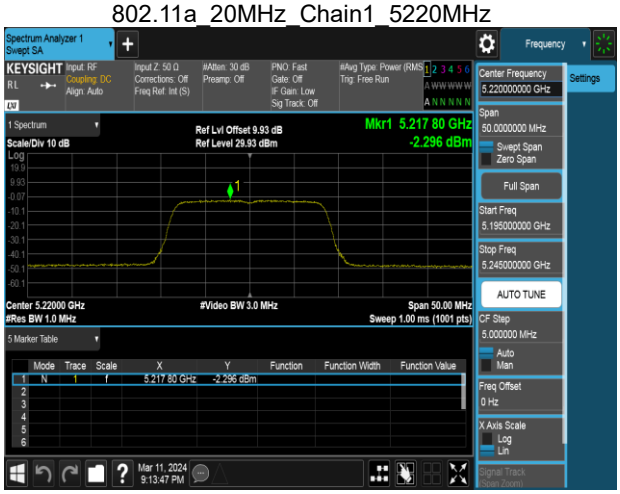
802.11a_20MHz_Chain1_5180MHz



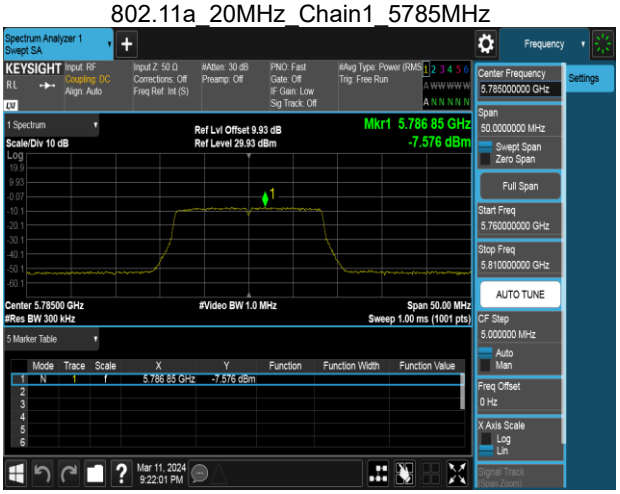
802.11a_20MHz_Chain1_5745MHz



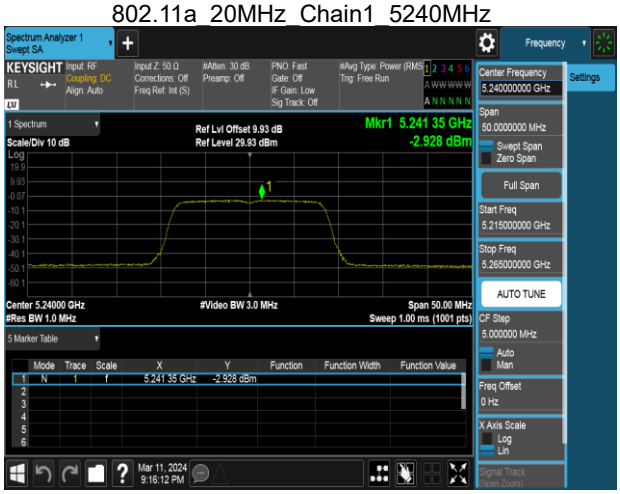
802.11a_20MHz_Chain1_5220MHz



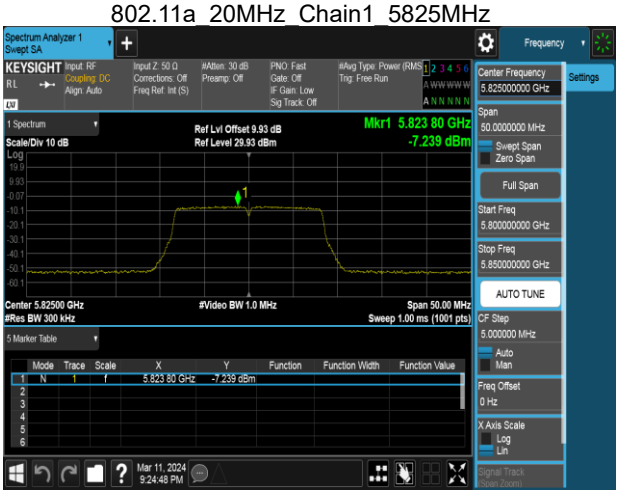
802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5825MHz



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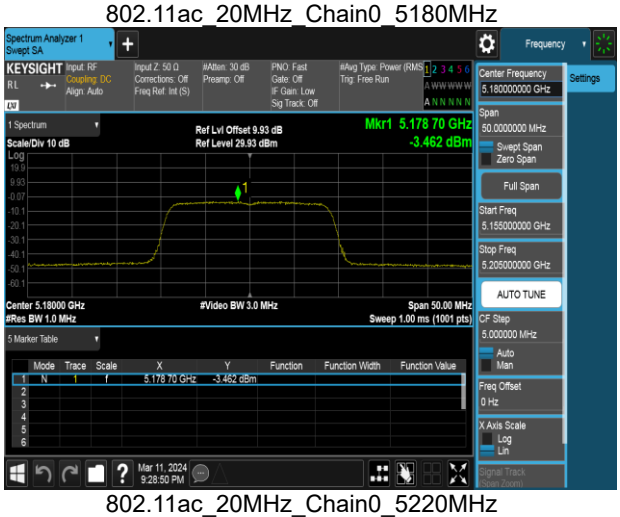
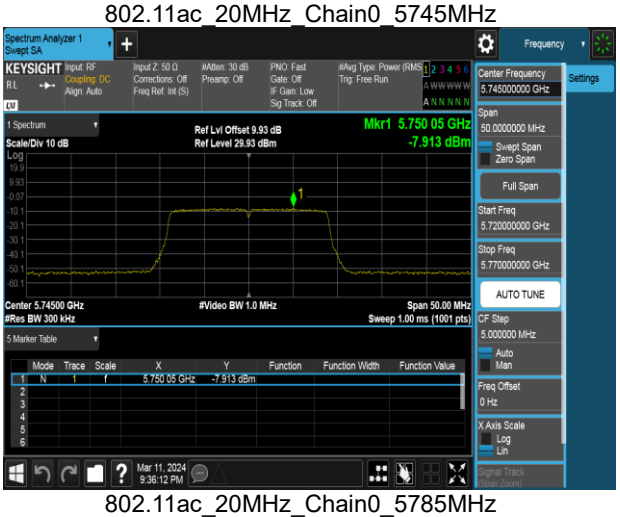
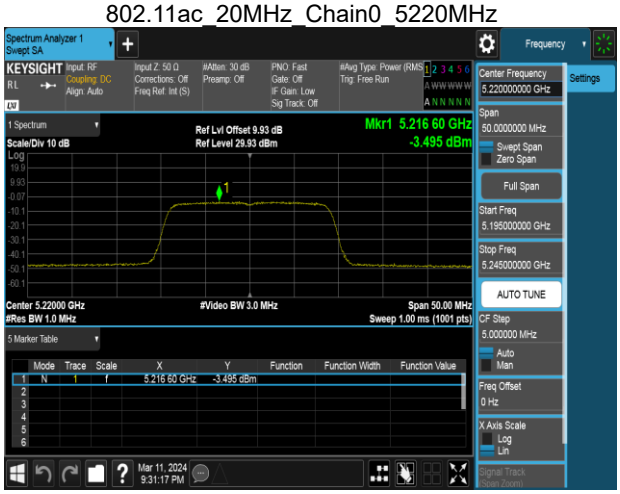
802.11ac_20MHz_Chain0_5180MHz



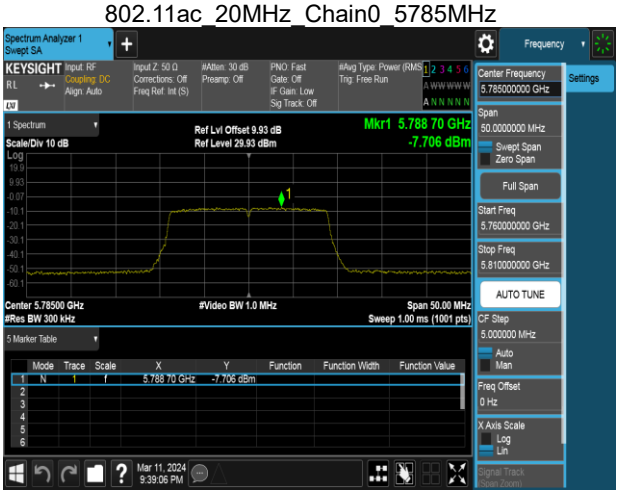
802.11ac_20MHz_Chain0_5745MHz



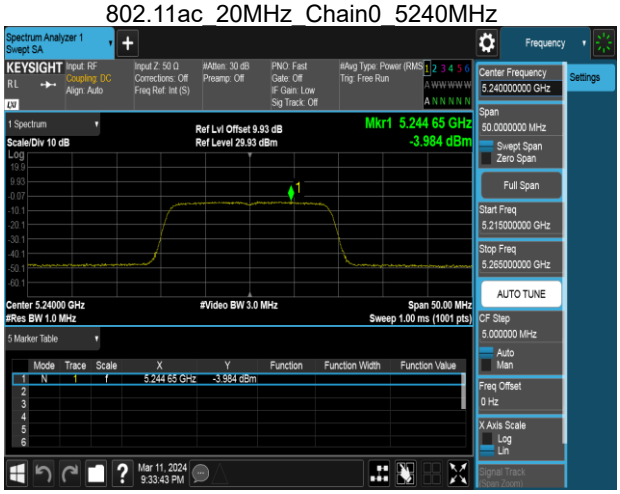
802.11ac_20MHz_Chain0_5220MHz



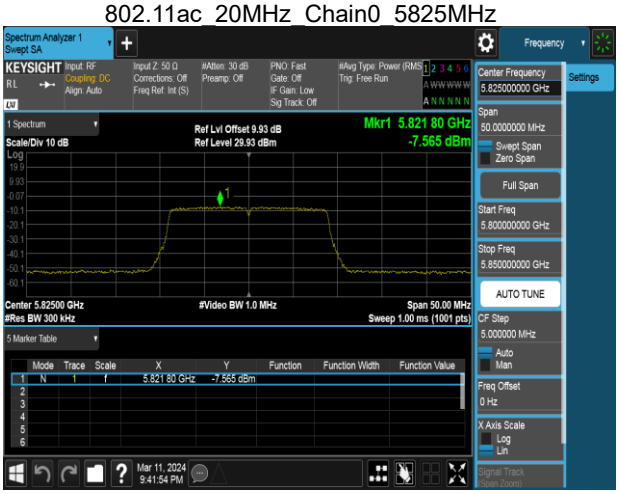
802.11ac_20MHz_Chain0_5785MHz



802.11ac_20MHz_Chain0_5240MHz



802.11ac_20MHz_Chain0_5825MHz



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