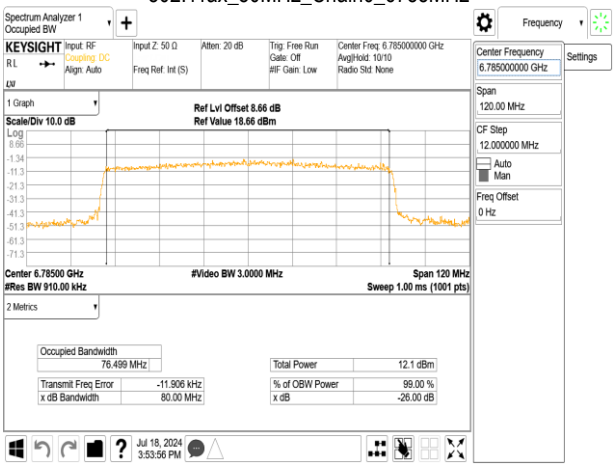
802.11ax_80MHz_Chain0_6785MHz



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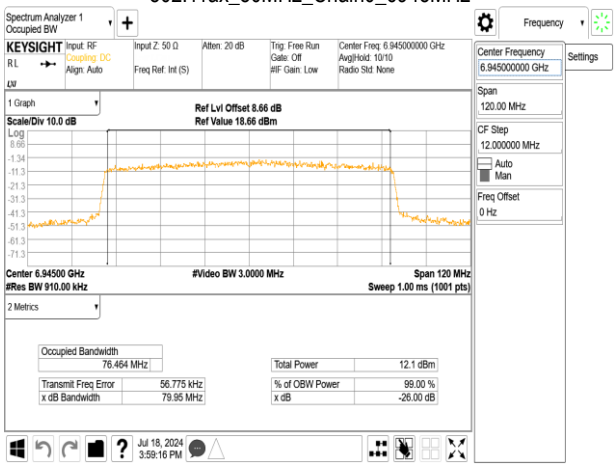

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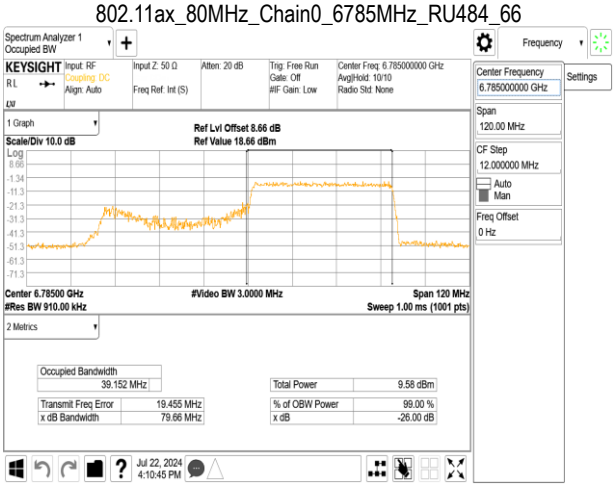

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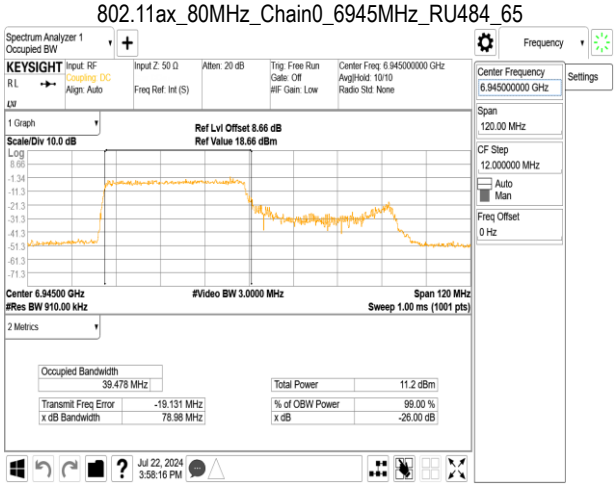
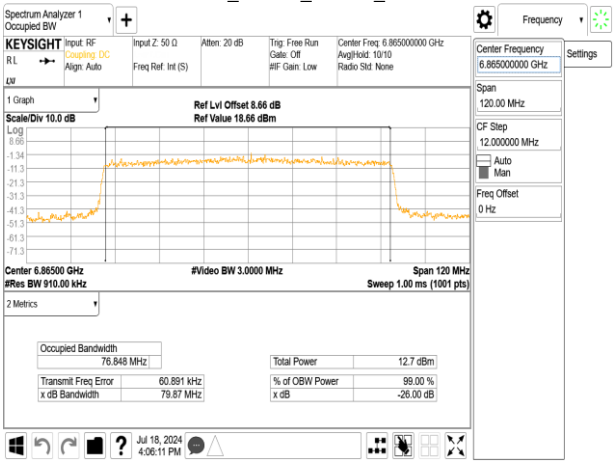
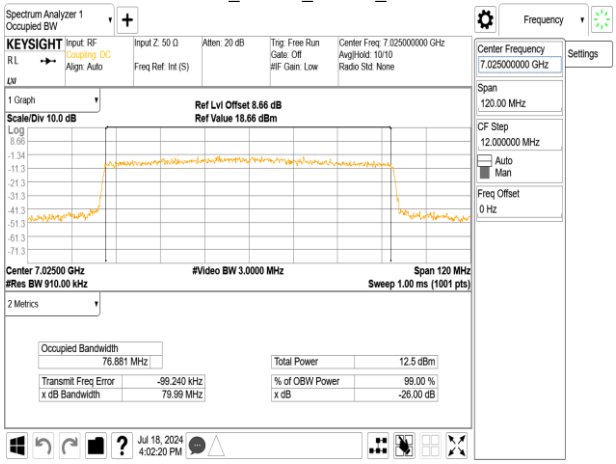


802.11ax_80MHz_Chain0_6865MHz



802.11ax_80MHz_Chain0_7025MHz



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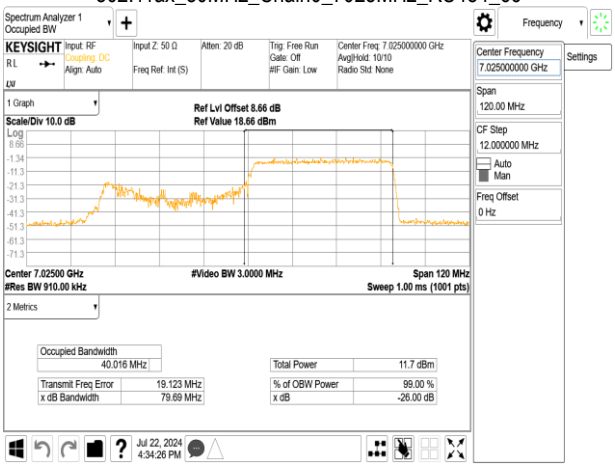
802.11ax_80MHz_Chain0_7025MHz_RU484_66



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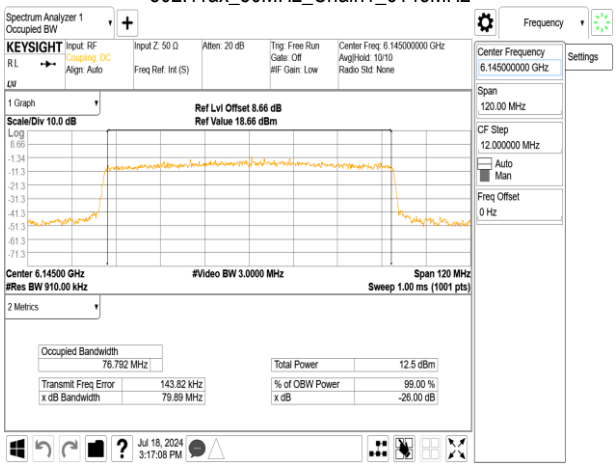
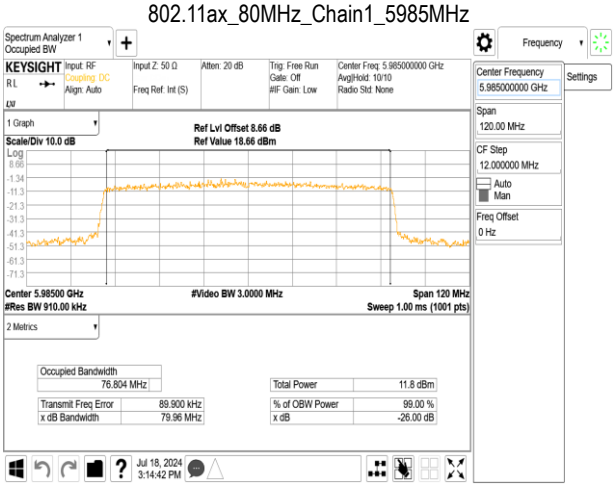


802.11ax_80MHz_Chain1_5985MHz



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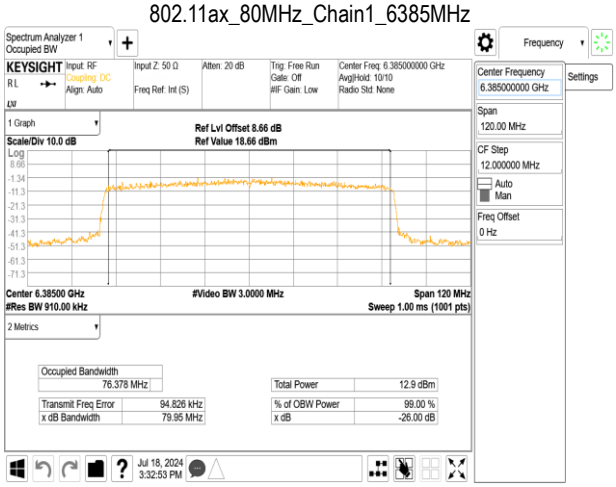

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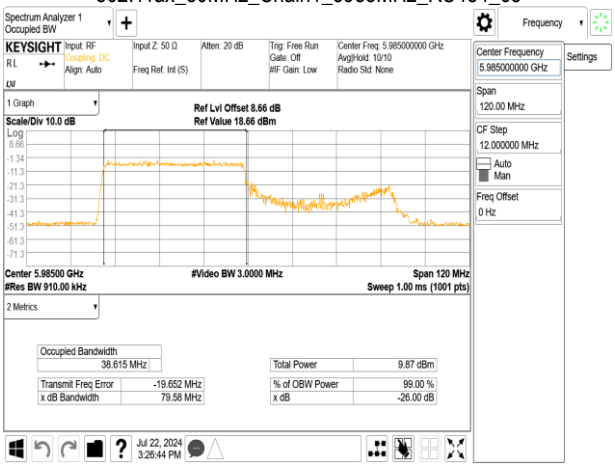

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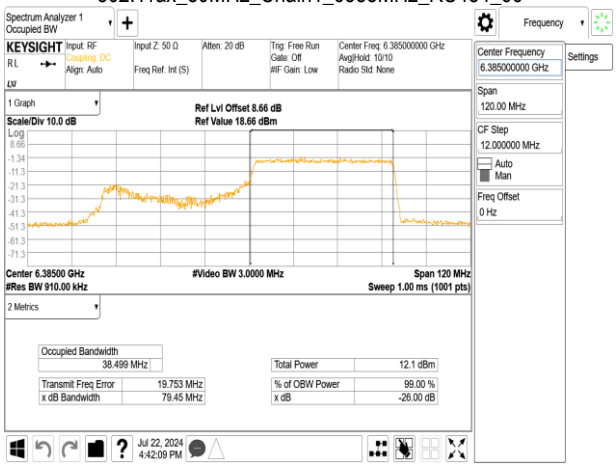

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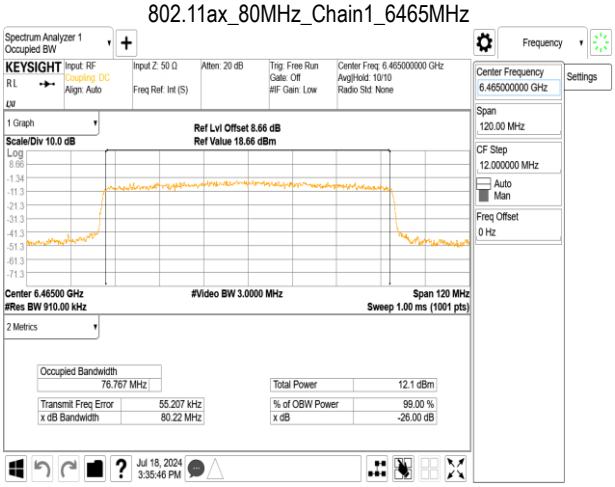
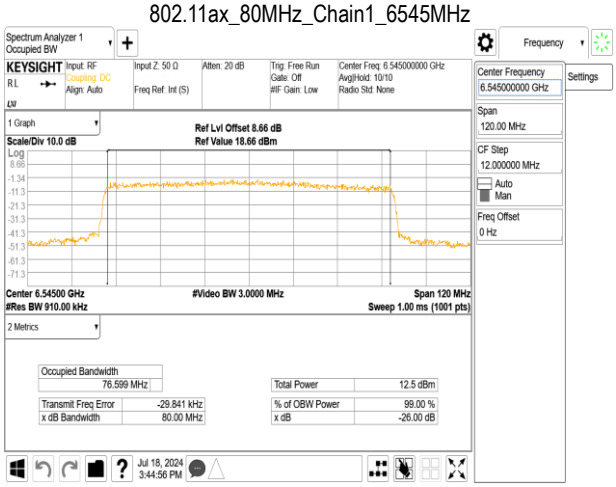
802.11ax_80MHz_Chain1_6465MHz



802.11ax_80MHz_Chain1_6545MHz



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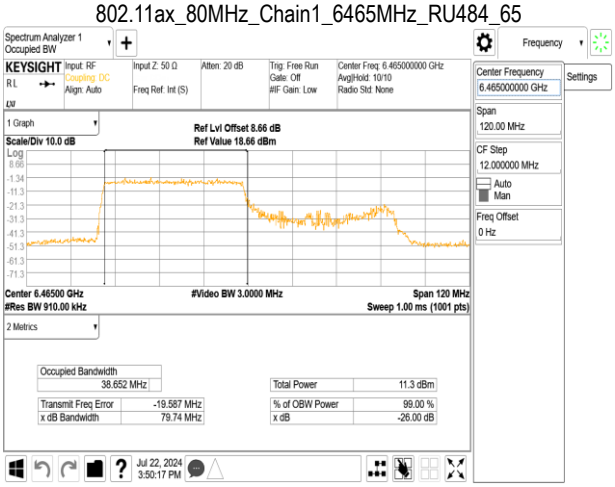
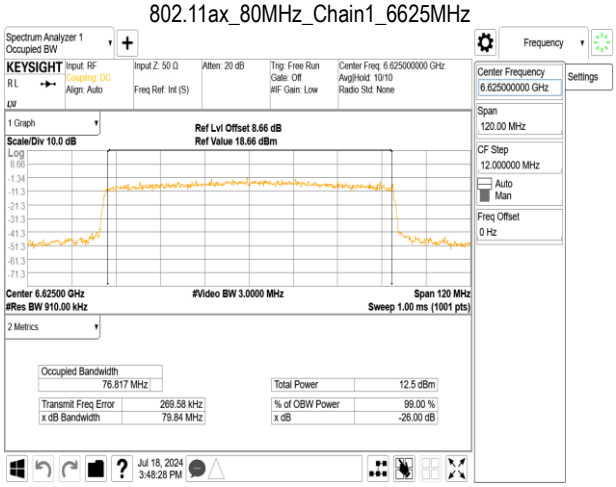


802.11ax_80MHz_Chain1_6625MHz



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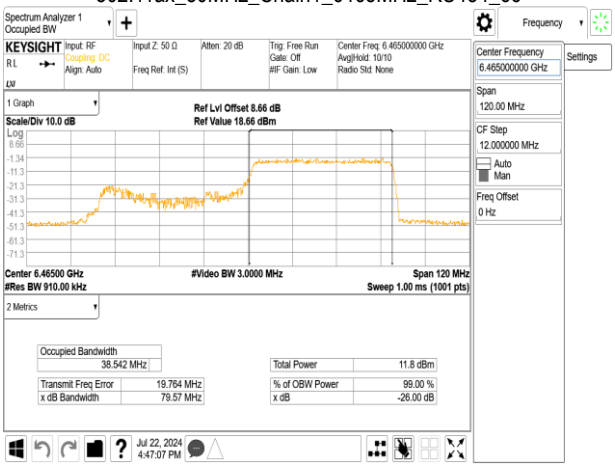
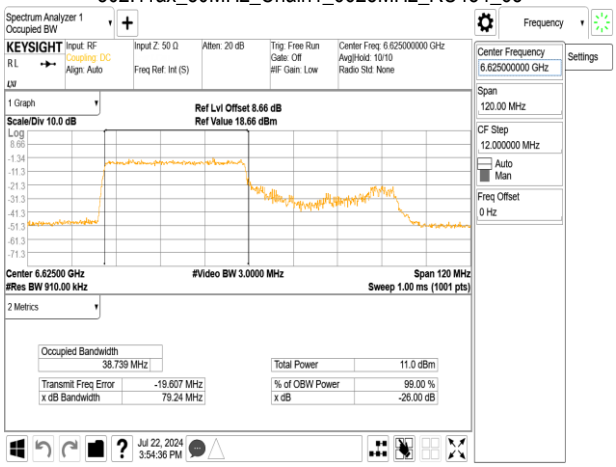


802.11ax_80MHz_Chain1_6625MHz_RU484_65



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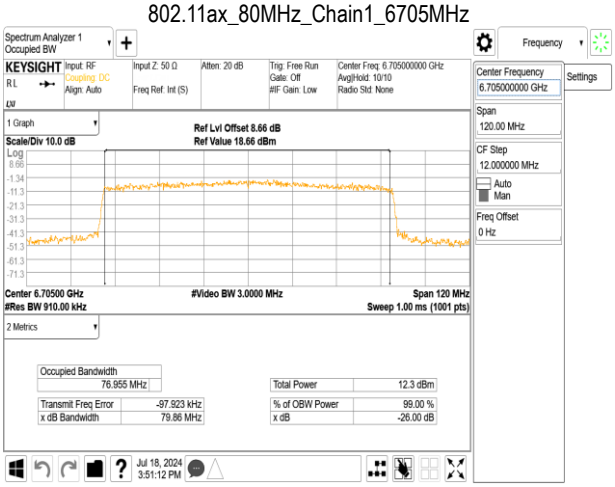
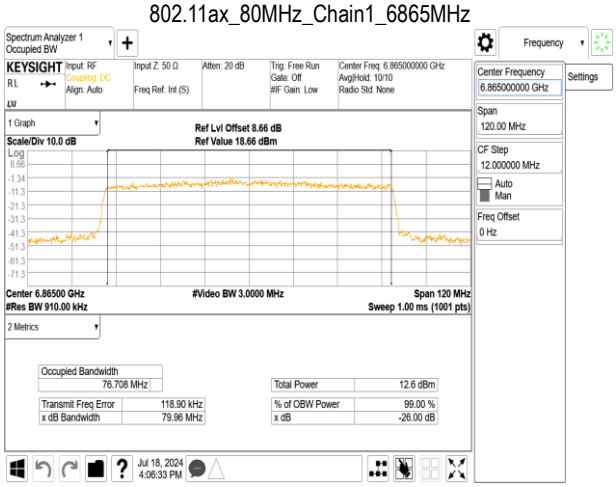
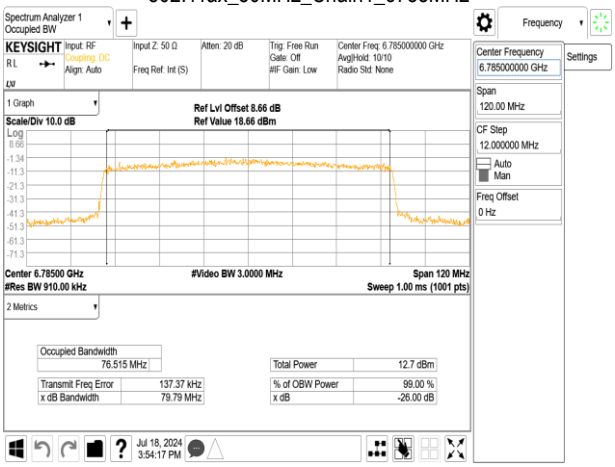
802.11ax_80MHz_Chain1_6705MHz



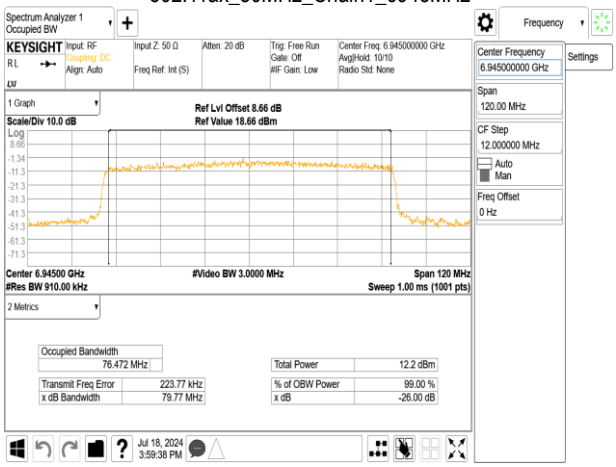
802.11ax_80MHz_Chain1_6865MHz



802.11ax_80MHz_Chain1_6785MHz



802.11ax_80MHz_Chain1_6945MHz



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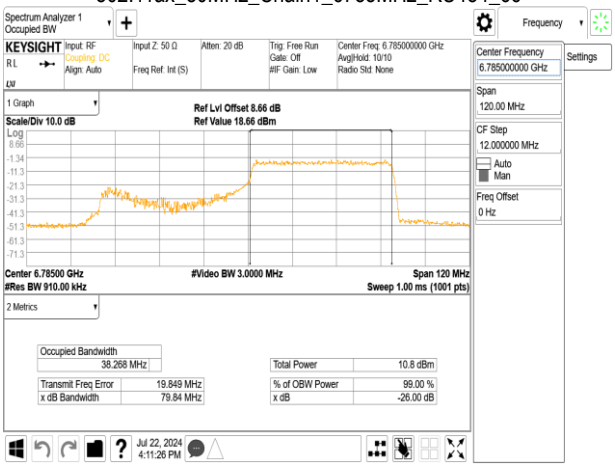

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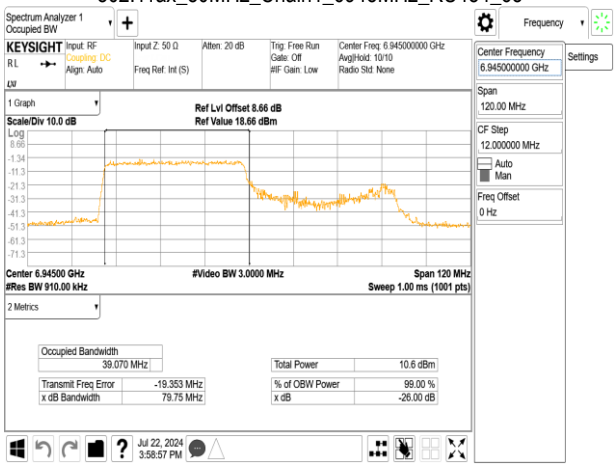

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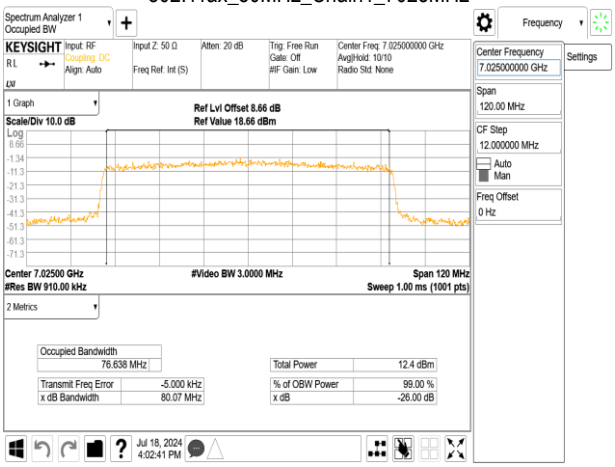
802.11ax_80MHz_Chain1_7025MHz



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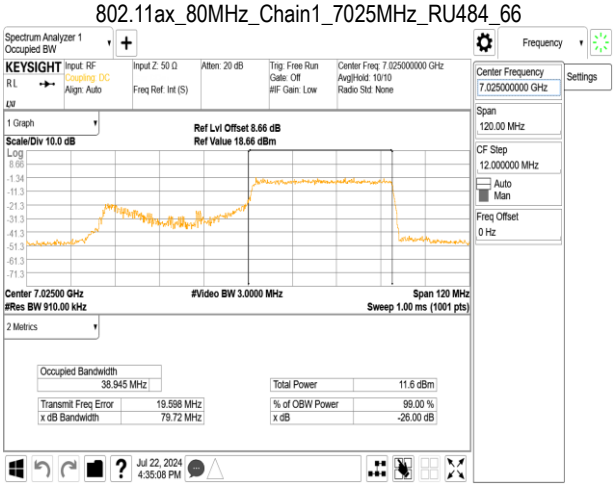

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9 MAXIMUM OUTPUT POWER

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

9.1.2 Output Power

§15.407(a)

(4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.
For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

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EUT CATEGORY		Equipment Class	§15.407(a)
	Very low power devices	VLP	EIRP < 14dBm
	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
	indoor Access Point	6ID	EIRP < 30dBm
	Subordinate Device	6PP	EIRP < 30dBm
	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
V	Indoor Client	6XD	EIRP < 24dBm
	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized trans-mit power
	Dual Client	6CD	Compliance both indoor client and standard client limit

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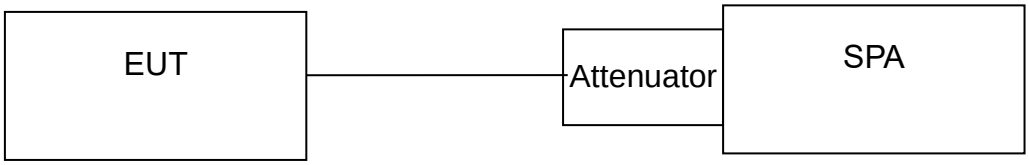
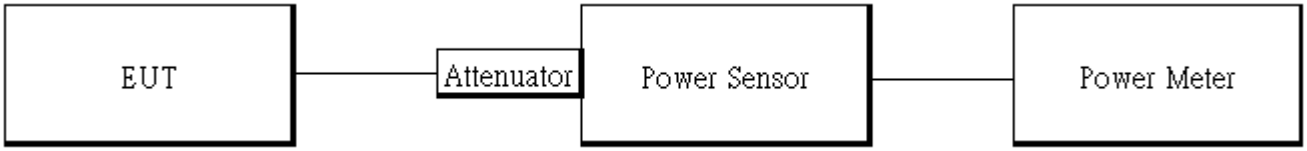
9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



Note:

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

As per section F. 2). e). (ii) of FCC KDB 662911 D01
If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

- $$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;
NSS = the number of independent spatial streams of data;
NANT = the total number of antennas
$g_{j,k} = 10^{Gk/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;
G_k is the gain in dBi of the kth antenna.

9.3 Measurement Procedure

9.3.1 Duty Cycle

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

9.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.

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2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

9.4 Duty Cycle Measurement Result

Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a		78.64	1.04	0.72	1.00
802.11n_20		77.11	1.13	0.77	1.00
802.11ac_20		76.91	1.14	0.76	1.00
802.11n_40		77.47	1.11	0.77	1.00
802.11ac_40		62.81	2.02	1.53	2.00
802.11ac_80		46.29	3.35	3.09	4.00
Mode	**RU Config**	**Duty Cycle (%) =Ton / (Ton+Toff)**	**Duty Factor (dB) =10*log (1/Duty Cycle)**	**1/T (kHz)**	**VBW setting (kHz)**
802.11ax_20	Full	72.51	1.40	0.98	1.00
	26 RU	82.09	0.86	0.62	1.00
	52 RU	80.55	0.94	0.66	1.00
	106 RU	79.07	1.02	0.72	1.00
802.11ax_40	Full	58.64	2.32	1.87	2.00
	242 RU	76.23	1.18	0.83	1.00
802.11ax_80	Full	43.54	3.61	3.45	4.00
	484 RU	61.92	2.08	1.55	2.00

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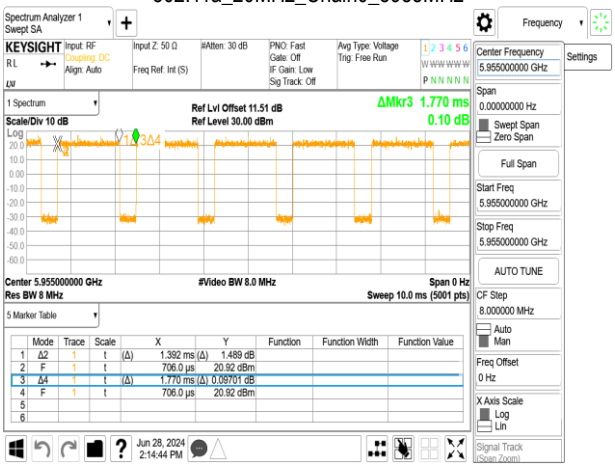
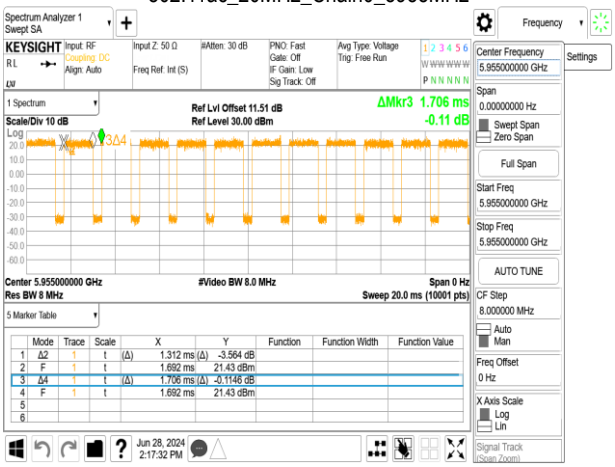
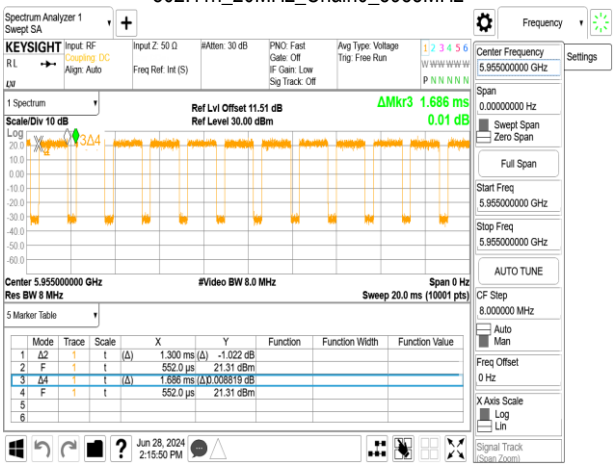
802.11a_20MHz_Chain0_5955MHz



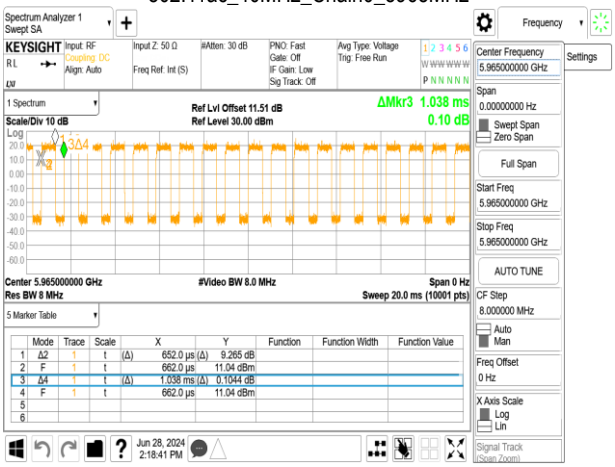
802.11ac_20MHz_Chain0_5955MHz



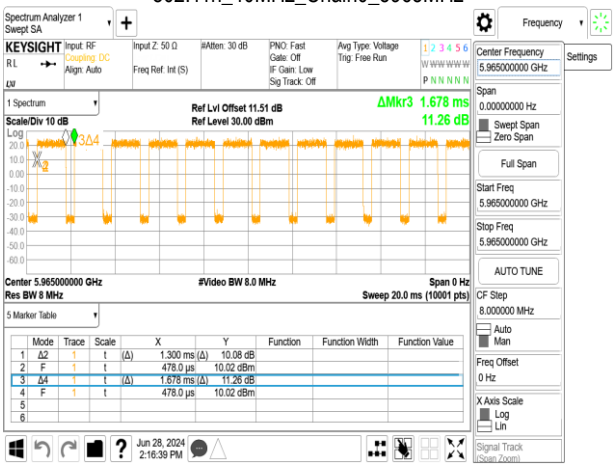
802.11n_20MHz_Chain0_5955MHz



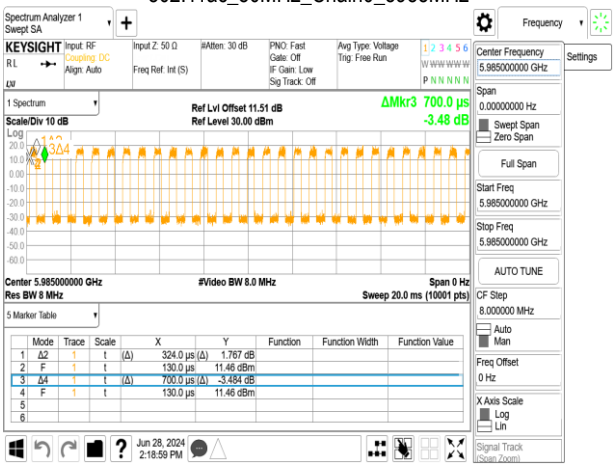
802.11ac_40MHz_Chain0_5965MHz



802.11n_40MHz_Chain0_5965MHz



802.11ac_80MHz_Chain0_5985MHz



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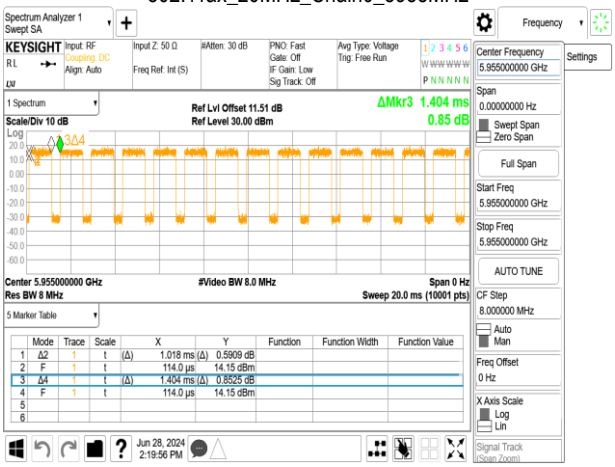
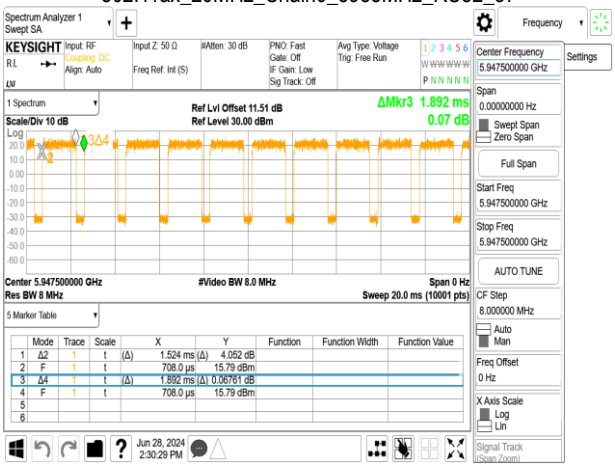
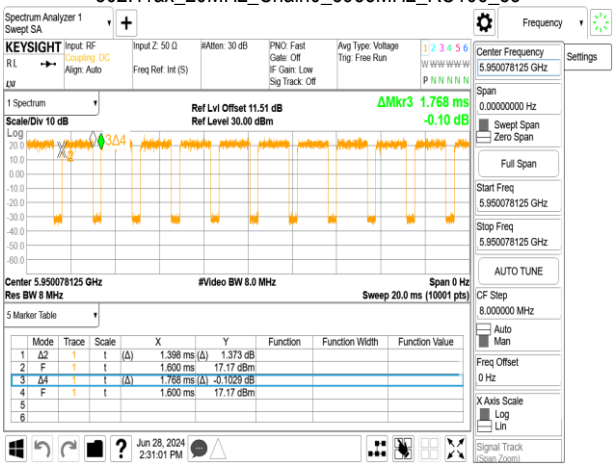
802.11ax_20MHz_Chain0_5955MHz



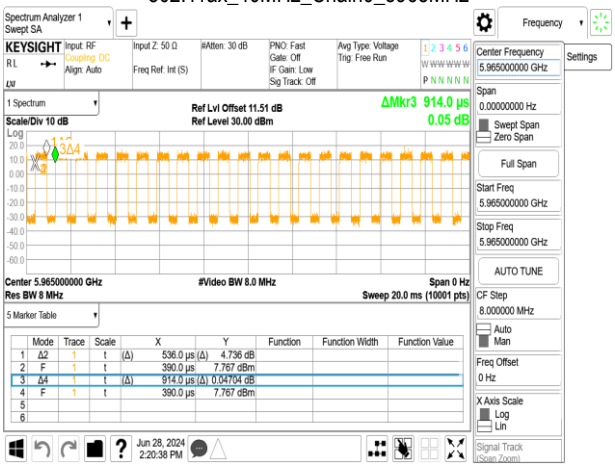
802.11ax_20MHz_Chain0_5955MHz_RU52_37



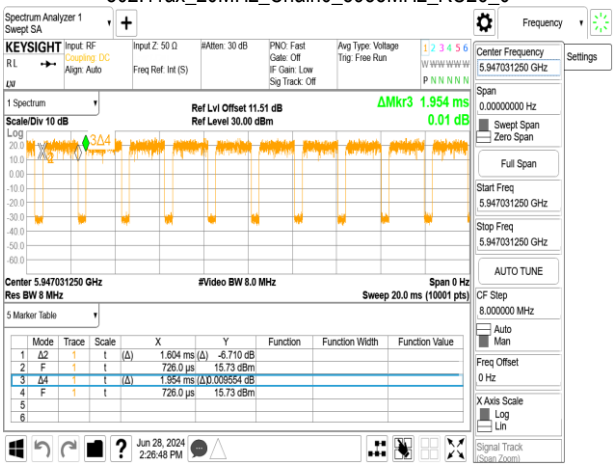
802.11ax_20MHz_Chain0_5955MHz_RU106_53



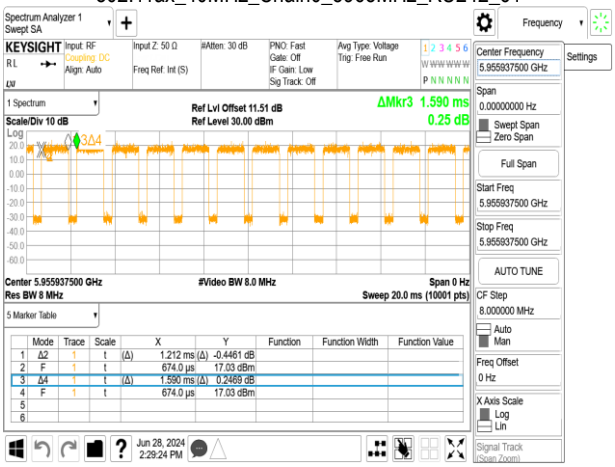
802.11ax_40MHz_Chain0_5965MHz



802.11ax_20MHz_Chain0_5955MHz_RU26_0



802.11ax_40MHz_Chain0_5965MHz_RU242_61



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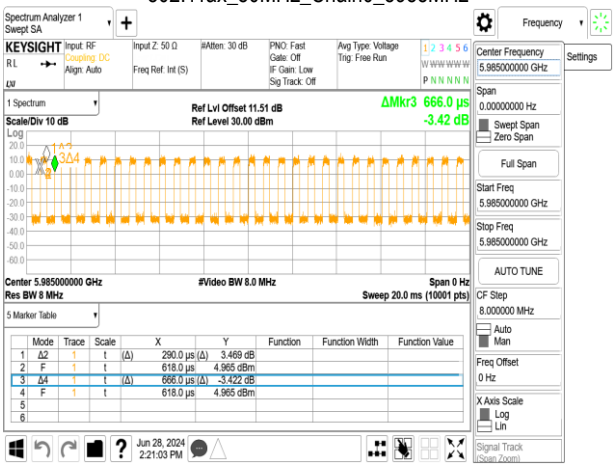
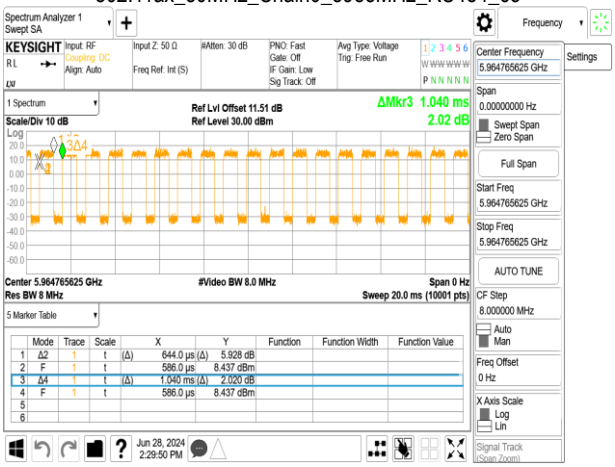
802.11ax_80MHz_Chain0_5985MHz



802.11ax_80MHz_Chain0_5985MHz_RU484_65



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9.5 Conducted output power

802.11a_Ch0

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	0.83	3.07	3.90	24	PASS
45	6175	0.89	3.07	3.96	24	PASS
93	6415	0.80	3.07	3.87	24	PASS
97	6435	0.34	1.78	2.13	24	PASS
105	6475	0.15	1.78	1.94	24	PASS
113	6515	0.70	1.78	2.49	24	PASS
117	6535	0.86	1.78	2.65	24	PASS
149	6695	0.63	1.78	2.42	24	PASS
181	6855	1.21	1.78	3.00	24	PASS
185	6875(U-NII 7)	-1.76	1.78	0.03	24	PASS
185	6875(U-NII 8)	-1.76	1.43	-0.32	24	PASS
189	6895	1.30	1.43	2.74	24	PASS
209	6995	1.09	1.43	2.53	24	PASS
233	7115	0.63	1.43	2.07	24	PASS

802.11a_Ch1

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	0.47	0.83	1.31	24	PASS
45	6175	0.71	0.83	1.55	24	PASS
93	6415	0.69	0.83	1.53	24	PASS
97	6435	0.15	-0.21	-0.06	24	PASS
105	6475	0.09	-0.21	-0.12	24	PASS
113	6515	0.59	-0.21	0.38	24	PASS
117	6535	0.65	-0.21	0.44	24	PASS
149	6695	0.60	-0.21	0.39	24	PASS
181	6855	0.78	-0.21	0.57	24	PASS
185	6875(U-NII 7)	-2.25	-0.21	-2.46	24	PASS
185	6875(U-NII 8)	-2.25	1.71	-0.54	24	PASS
189	6895	1.27	1.71	2.98	24	PASS
209	6995	0.73	1.71	2.44	24	PASS
233	7115	0.32	1.71	2.03	24	PASS

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802.11a_2TX

CH	Frequency (MHz)	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	0.86	0.49	3.69	2.09	5.79	24	PASS
45	6175	0.93	0.75	3.85	2.09	5.95	24	PASS
93	6415	0.85	0.76	3.82	2.09	5.91	24	PASS
97	6435	0.36	0.19	3.29	0.90	4.19	24	PASS
105	6475	0.19	0.13	3.17	0.90	4.07	24	PASS
113	6515	0.73	0.61	3.68	0.90	4.58	24	PASS
117	6535	0.90	0.67	3.80	0.90	4.70	24	PASS
149	6695	0.68	0.63	3.67	0.90	4.57	24	PASS
181	6855	1.25	0.85	4.07	0.90	4.97	24	PASS
185	6875(U-NII 7)	-1.74	-2.19	1.05	0.90	1.95	24	PASS
185	6875(U-NII 8)	-1.74	-2.19	1.05	1.57	2.63	24	PASS
189	6895	1.35	1.32	4.35	1.57	5.92	24	PASS
209	6995	1.15	0.78	3.98	1.57	5.56	24	PASS
233	7115	0.68	0.36	3.54	1.57	5.11	24	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	1.16	3.07	4.23	24	PASS
45	6175	2.72	3.07	5.79	24	PASS
93	6415	1.67	3.07	4.74	24	PASS
97	6435	0.70	1.78	2.48	24	PASS
105	6475	1.88	1.78	3.66	24	PASS
113	6515	1.24	1.78	3.02	24	PASS
117	6535	1.55	1.78	3.33	24	PASS
149	6695	3.55	1.78	5.33	24	PASS
181	6855	3.43	1.78	5.21	24	PASS
185	6875(U-NII 7)	0.63	1.78	2.41	24	PASS
185	6875(U-NII 8)	0.63	1.43	2.06	24	PASS
189	6895	3.79	1.43	5.22	24	PASS
209	6995	3.77	1.43	5.20	24	PASS
233	7115	3.42	1.43	4.85	24	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	0.80	0.83	1.63	24	PASS
45	6175	2.41	0.83	3.24	24	PASS
93	6415	1.42	0.83	2.25	24	PASS
97	6435	0.62	-0.21	0.41	24	PASS
105	6475	1.60	-0.21	1.39	24	PASS
113	6515	1.19	-0.21	0.98	24	PASS
117	6535	1.48	-0.21	1.27	24	PASS
149	6695	3.40	-0.21	3.19	24	PASS
181	6855	3.35	-0.21	3.14	24	PASS
185	6875(U-NII 7)	0.38	-0.21	0.17	24	PASS
185	6875(U-NII 8)	0.38	1.71	2.09	24	PASS
189	6895	3.61	1.71	5.32	24	PASS
209	6995	3.50	1.71	5.21	24	PASS
233	7115	3.09	1.71	4.80	24	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	1.19	0.85	4.03	2.09	6.13	24	PASS
45	6175	2.77	2.45	5.62	2.09	7.72	24	PASS
93	6415	1.71	1.46	4.60	2.09	6.69	24	PASS
97	6435	0.75	0.67	3.72	0.90	4.62	24	PASS
105	6475	1.92	1.65	4.80	0.90	5.70	24	PASS
113	6515	1.30	1.23	4.27	0.90	5.17	24	PASS
117	6535	1.59	1.51	4.56	0.90	5.46	24	PASS
149	6695	3.60	3.45	6.53	0.90	7.43	24	PASS
181	6855	3.48	3.41	6.45	0.90	7.35	24	PASS
185	6875(U-NII 7)	0.67	0.47	3.58	0.90	4.48	24	PASS
185	6875(U-NII 8)	0.67	0.47	3.58	1.57	5.15	24	PASS
189	6895	3.82	3.67	6.75	1.57	8.33	24	PASS
209	6995	3.85	3.56	6.72	1.57	8.29	24	PASS
233	7115	3.46	3.16	6.32	1.57	7.90	24	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	1.04	3.07	4.11	24	PASS
45	6175	2.62	3.07	5.69	24	PASS
93	6415	1.56	3.07	4.63	24	PASS
97	6435	0.60	1.78	2.38	24	PASS
105	6475	1.77	1.78	3.55	24	PASS
113	6515	1.15	1.78	2.93	24	PASS
117	6535	1.44	1.78	3.22	24	PASS
149	6695	3.45	1.78	5.23	24	PASS
181	6855	3.33	1.78	5.11	24	PASS
185	**6875**	3.53	1.78	5.31	24	PASS
189	6895	3.67	1.43	5.10	24	PASS
209	6995	3.70	1.43	5.13	24	PASS
233	7115	3.31	1.43	4.74	24	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	0.71	0.83	1.54	24	PASS
45	6175	2.31	0.83	3.14	24	PASS
93	6415	1.32	0.83	2.15	24	PASS
97	6435	0.53	-0.21	0.32	24	PASS
105	6475	1.51	-0.21	1.30	24	PASS
113	6515	1.09	-0.21	0.88	24	PASS
117	6535	1.37	-0.21	1.16	24	PASS
149	6695	3.31	-0.21	3.10	24	PASS
181	6855	3.27	-0.21	3.06	24	PASS
185	**6875**	3.34	-0.21	3.13	24	PASS
189	6895	3.53	1.71	5.24	24	PASS
209	6995	3.42	1.71	5.13	24	PASS
233	7115	3.02	1.71	4.73	24	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	1.16	0.79	3.99	2.09	6.08	24	PASS
45	6175	2.74	2.39	5.58	2.09	7.67	24	PASS
93	6415	1.68	1.40	4.55	2.09	6.65	24	PASS
97	6435	0.72	0.61	3.68	0.90	4.57	24	PASS
105	6475	1.89	1.59	4.75	0.90	5.65	24	PASS
113	6515	1.27	1.17	4.23	0.90	5.13	24	PASS
117	6535	1.56	1.45	4.52	0.90	5.41	24	PASS
149	6695	3.57	3.39	6.49	0.90	7.39	24	PASS
181	6855	3.45	3.35	6.41	0.90	7.31	24	PASS
185	**6875**	3.65	3.42	6.55	0.90	7.44	24	PASS
189	6895	3.79	3.61	6.71	1.57	8.28	24	PASS
209	6995	3.82	3.50	6.67	1.57	8.25	24	PASS
233	7115	3.43	3.10	6.28	1.57	7.85	24	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	4.79	3.07	7.86	24	PASS
43	6165	4.75	3.07	7.82	24	PASS
91	6405	4.52	3.07	7.59	24	PASS
99	6445	4.36	1.78	6.14	24	PASS
107	6485	4.24	1.78	6.02	24	PASS
115	6525(U-NII 6)	1.00	1.78	2.78	24	PASS
115	6525(U-NII 7)	1.00	1.78	2.78	24	PASS
123	6565	4.07	1.78	5.85	24	PASS
147	6685	4.55	1.78	6.33	24	PASS
179	6845	4.50	1.78	6.28	24	PASS
187	6885(U-NII 7)	-1.74	1.78	0.04	24	PASS
187	6885(U-NII 8)	3.72	1.43	5.16	24	PASS
195	6925	3.88	1.43	5.31	24	PASS
211	7005	4.91	1.43	6.34	24	PASS
227	7085	4.27	1.43	5.70	24	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	4.68	0.83	5.51	24	PASS
43	6165	4.63	0.83	5.46	24	PASS
91	6405	4.27	0.83	5.10	24	PASS
99	6445	4.20	-0.21	3.99	24	PASS
107	6485	4.03	-0.21	3.82	24	PASS
115	6525(U-NII 6)	0.73	-0.21	0.52	24	PASS
115	6525(U-NII 7)	0.73	-0.21	0.52	24	PASS
123	6565	3.96	-0.21	3.75	24	PASS
147	6685	4.22	-0.21	4.01	24	PASS
179	6845	4.35	-0.21	4.14	24	PASS
187	6885(U-NII 7)	-1.95	-0.21	-2.16	24	PASS
187	6885(U-NII 8)	3.54	1.71	5.25	24	PASS
195	6925	3.77	1.71	5.48	24	PASS
211	7005	4.64	1.71	6.35	24	PASS
227	7085	4.08	1.71	5.79	24	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
3	5965	4.83	4.73	7.79	2.09	9.88	24	PASS
43	6165	4.78	4.70	7.75	2.09	9.84	24	PASS
91	6405	4.56	4.32	7.45	2.09	9.54	24	PASS
99	6445	4.40	4.26	7.34	0.90	8.24	24	PASS
107	6485	4.28	4.09	7.20	0.90	8.09	24	PASS
115	6525(U-NII 6)	1.04	0.77	3.92	0.90	4.82	24	PASS
115	6525(U-NII 7)	1.04	0.77	3.92	0.90	4.82	24	PASS
123	6565	4.13	4.02	7.08	0.90	7.98	24	PASS
147	6685	4.58	4.29	7.45	0.90	8.35	24	PASS
179	6845	4.53	4.40	7.47	0.90	8.37	24	PASS
187	6885(U-NII 7)	-1.67	-1.89	1.23	0.90	2.13	24	PASS
187	6885(U-NII 8)	3.79	3.60	6.71	1.57	8.28	24	PASS
195	6925	3.94	3.82	6.89	1.57	8.46	24	PASS
211	7005	4.94	4.67	7.82	1.57	9.39	24	PASS
227	7085	4.32	4.19	7.26	1.57	8.84	24	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	4.60	3.07	7.67	24	PASS
43	6165	4.23	3.07	7.30	24	PASS
91	6405	4.34	3.07	7.41	24	PASS
99	6445	4.13	1.78	5.91	24	PASS
107	6485	4.04	1.78	5.82	24	PASS
115	**6525**	3.82	1.78	5.60	24	PASS
123	6565	3.89	1.78	5.67	24	PASS
147	6685	4.33	1.78	6.11	24	PASS
179	6845	4.29	1.78	6.07	24	PASS
187	**6885**	4.64	1.43	6.07	24	PASS
195	6925	3.67	1.43	5.10	24	PASS
211	7005	4.70	1.43	6.13	24	PASS
227	7085	4.06	1.43	5.49	24	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	4.42	0.83	5.25	24	PASS
43	6165	4.39	0.83	5.22	24	PASS
91	6405	4.01	0.83	4.84	24	PASS
99	6445	3.95	-0.21	3.74	24	PASS
107	6485	3.78	-0.21	3.57	24	PASS
115	**6525**	3.47	-0.21	3.26	24	PASS
123	6565	3.71	-0.21	3.50	24	PASS
147	6685	3.98	-0.21	3.77	24	PASS
179	6845	4.09	-0.21	3.88	24	PASS
187	**6885**	4.37	1.71	6.08	24	PASS
195	6925	3.51	1.71	5.22	24	PASS
211	7005	4.36	1.71	6.07	24	PASS
227	7085	3.88	1.71	5.59	24	PASS

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802.11ac_VHT40_2TX

CH	Frequency (MHz)	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
3	5965	4.62	4.49	7.57	2.09	9.66	24	PASS
43	6165	4.57	4.46	7.53	2.09	9.62	24	PASS
91	6405	4.35	4.08	7.23	2.09	9.32	24	PASS
99	6445	4.19	4.02	7.12	0.90	8.02	24	PASS
107	6485	4.07	3.85	6.97	0.90	7.87	24	PASS
115	**6525**	3.84	3.54	6.70	0.90	7.60	24	PASS
123	6565	3.92	3.78	6.86	0.90	7.76	24	PASS
147	6685	4.37	4.05	7.22	0.90	8.12	24	PASS
179	6845	4.32	4.16	7.25	0.90	8.15	24	PASS
187	**6885**	4.67	4.44	7.57	0.90	8.47	24	PASS
195	6925	3.73	3.58	6.67	1.57	8.24	24	PASS
211	7005	4.73	4.43	7.59	1.57	9.17	24	PASS
227	7085	4.11	3.95	7.04	1.57	8.61	24	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	8.12	3.07	11.19	24	PASS
39	6145	7.92	3.07	10.99	24	PASS
87	6385	6.61	3.07	9.68	24	PASS
103	6465	6.84	1.78	8.62	24	PASS
119	6545(U-NII 6)	0.82	1.78	2.61	24	PASS
119	6545(U-NII 7)	6.00	1.78	7.79	24	PASS
135	6625	7.19	1.78	8.97	24	PASS
151	6705	7.13	1.78	8.91	24	PASS
167	6785	6.95	1.78	8.73	24	PASS
183	6865(U-NII 7)	7.13	1.78	8.91	24	PASS
183	6865(U-NII 8)	4.76	1.43	6.20	24	PASS
199	6945	7.51	1.43	8.94	24	PASS
215	7025	7.38	1.43	8.81	24	PASS

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	7.86	0.83	8.69	24	PASS
39	6145	7.80	0.83	8.63	24	PASS
87	6385	6.51	0.83	7.34	24	PASS
103	6465	6.37	-0.21	6.15	24	PASS
119	6545(U-NII 6)	0.54	-0.21	0.33	24	PASS
119	6545(U-NII 7)	5.71	-0.21	5.50	24	PASS
135	6625	7.02	-0.21	6.80	24	PASS
151	6705	7.06	-0.21	6.84	24	PASS
167	6785	6.73	-0.21	6.51	24	PASS
183	6865(U-NII 7)	6.82	-0.21	6.61	24	PASS
183	6865(U-NII 8)	4.45	1.71	6.16	24	PASS
199	6945	6.86	1.71	8.57	24	PASS
215	7025	6.99	1.71	8.70	24	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
7	5985	8.20	7.97	11.09	2.09	13.19	24	PASS
39	6145	7.99	7.82	10.91	2.09	13.01	24	PASS
87	6385	6.67	6.59	9.64	2.09	11.73	24	PASS
103	6465	6.89	6.58	9.74	0.90	10.64	24	PASS
119	6545(U-NII 6)	0.86	0.68	3.78	0.90	4.68	24	PASS
119	6545(U-NII 7)	6.04	5.85	8.96	0.90	9.86	24	PASS
135	6625	7.24	7.11	10.18	0.90	11.08	24	PASS
151	6705	7.19	7.13	10.17	0.90	11.07	24	PASS
167	6785	7.01	6.80	9.91	0.90	10.81	24	PASS
183	6865(U-NII 7)	7.19	7.02	10.12	0.90	11.02	24	PASS
183	6865(U-NII 8)	4.82	4.65	7.75	1.57	9.32	24	PASS
199	6945	7.53	7.20	10.37	1.57	11.95	24	PASS
215	7025	7.46	7.31	10.39	1.57	11.96	24	PASS

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802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	3.35	3.07	6.42	24	PASS
		26/0	-5.04	3.07	-1.97	24	PASS
		52/37	-2.31	3.07	0.76	24	PASS
		106/53	1.08	3.07	4.15	24	PASS
45	6175	full	3.51	3.07	6.58	24	PASS
93	6415	full	2.42	3.07	5.49	24	PASS
		26/8	-5.46	3.07	-2.39	24	PASS
		52/40	-2.89	3.07	0.18	24	PASS
		106/54	0.17	3.07	3.24	24	PASS
97	6435	full	2.29	1.78	4.07	24	PASS
		26/0	-4.98	1.78	-3.20	24	PASS
		52/37	-2.85	1.78	-1.07	24	PASS
		106/53	-0.05	1.78	1.73	24	PASS
105	6475	full	2.24	1.78	4.02	24	PASS
113	6515	full	2.66	1.78	4.44	24	PASS
		26/8	-5.71	1.78	-3.93	24	PASS
		52/40	-3.00	1.78	-1.22	24	PASS
		106/54	0.51	1.78	2.29	24	PASS
117	6535	full	2.32	1.78	4.10	24	PASS
		26/0	-5.59	1.78	-3.81	24	PASS
		52/37	-2.99	1.78	-1.21	24	PASS
		106/53	-0.29	1.78	1.49	24	PASS
149	6695	full	3.90	1.78	5.68	24	PASS
181	6855	full	3.96	1.78	5.74	24	PASS
		26/8	-2.99	1.78	-1.21	24	PASS
		52/40	-1.22	1.78	0.56	24	PASS
		106/54	1.90	1.78	3.68	24	PASS
185	6875(U-NII 7)	full	4.79	1.78	6.57	24	PASS
185	6875(U-NII 8)	full	4.79	1.43	6.22	24	PASS
189	6895	full	4.26	1.43	5.69	24	PASS
		26/0	-3.91	1.43	-2.48	24	PASS
		52/37	-1.45	1.43	-0.02	24	PASS
		106/53	0.73	1.43	2.16	24	PASS
209	6995	full	2.90	1.43	4.33	24	PASS
233	7115	full	3.69	1.43	5.12	24	PASS
		26/8	-6.70	1.43	-5.27	24	PASS
		52/40	-8.98	1.43	-7.55	24	PASS
		106/54	-4.52	1.43	-3.09	24	PASS

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	2.95	0.83	3.78	24	PASS
		26/0	-6.01	0.83	-5.18	24	PASS
		52/37	-3.32	0.83	-2.49	24	PASS
		106/53	0.51	0.83	1.34	24	PASS
45	6175	full	3.20	0.83	4.03	24	PASS
93	6415	full	2.16	0.83	2.99	24	PASS
		26/8	-6.15	0.83	-5.32	24	PASS
		52/40	-3.45	0.83	-2.62	24	PASS
		106/54	-0.28	0.83	0.55	24	PASS
97	6435	full	2.08	-0.21	1.87	24	PASS
		26/0	-5.58	-0.21	-5.79	24	PASS
		52/37	-3.44	-0.21	-3.65	24	PASS
		106/53	-0.44	-0.21	-0.65	24	PASS
105	6475	full	2.04	-0.21	1.83	24	PASS
113	6515	full	2.25	-0.21	2.04	24	PASS
		26/8	-6.06	-0.21	-6.27	24	PASS
		52/40	-3.36	-0.21	-3.57	24	PASS
		106/54	-0.04	-0.21	-0.25	24	PASS
117	6535	full	2.17	-0.21	1.96	24	PASS
		26/0	-5.96	-0.21	-6.17	24	PASS
		52/37	-3.32	-0.21	-3.53	24	PASS
		106/53	-0.70	-0.21	-0.91	24	PASS
149	6695	full	3.75	-0.21	3.54	24	PASS
181	6855	full	3.80	-0.21	3.59	24	PASS
		26/8	-3.77	-0.21	-3.98	24	PASS
		52/40	-1.77	-0.21	-1.98	24	PASS
		106/54	1.40	-0.21	1.19	24	PASS
185	6875(U-NII 7)	full	4.46	-0.21	4.25	24	PASS
185	6875(U-NII 8)	full	4.46	1.71	6.17	24	PASS
189	6895	full	3.99	1.71	5.70	24	PASS
		26/0	-4.66	1.71	-2.95	24	PASS
		52/37	-2.32	1.71	-0.61	24	PASS
		106/53	-0.12	1.71	1.59	24	PASS
209	6995	full	2.60	1.71	4.31	24	PASS
233	7115	full	3.59	1.71	5.30	24	PASS
		26/8	-6.90	1.71	-5.19	24	PASS
		52/40	-9.07	1.71	-7.36	24	PASS
		106/54	-4.73	1.71	-3.02	24	PASS

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802.11ax_20_2TX

CH	Frequency (MHz)	RU config.	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	3.42	3.11	6.27	2.09	8.37	24	PASS
		26/0	-4.97	-5.93	-2.42	2.09	-0.32	24	PASS
		52/37	-2.25	-3.20	0.31	2.09	2.40	24	PASS
		106/53	1.14	0.67	3.92	2.09	6.02	24	PASS
45	6175	full	3.55	3.38	6.47	2.09	8.57	24	PASS
93	6415	full	2.47	2.36	5.42	2.09	7.52	24	PASS
		26/8	-5.42	-6.01	-2.70	2.09	-0.60	24	PASS
		52/40	-2.83	-3.11	0.04	2.09	2.14	24	PASS
		106/54	0.24	-0.11	3.08	2.09	5.17	24	PASS
97	6435	full	2.33	2.22	5.28	0.90	6.18	24	PASS
		26/0	-4.92	-5.45	-2.17	0.90	-1.27	24	PASS
		52/37	-2.80	-3.17	0.03	0.90	0.93	24	PASS
		106/53	0.04	-0.29	2.89	0.90	3.79	24	PASS
105	6475	full	2.35	2.13	5.25	0.90	6.15	24	PASS
113	6515	full	2.74	2.48	5.62	0.90	6.52	24	PASS
		26/8	-5.66	-5.90	-2.77	0.90	-1.87	24	PASS
		52/40	-2.87	-3.13	0.01	0.90	0.91	24	PASS
		106/54	0.65	0.14	3.41	0.90	4.31	24	PASS
117	6535	full	2.37	2.29	5.34	0.90	6.24	24	PASS
		26/0	-5.55	-5.78	-2.66	0.90	-1.76	24	PASS
		52/37	-2.87	-3.12	0.02	0.90	0.92	24	PASS
		106/53	-0.17	-0.61	2.63	0.90	3.53	24	PASS
149	6695	full	3.97	3.83	6.91	0.90	7.81	24	PASS
181	6855	full	4.03	3.86	6.95	0.90	7.85	24	PASS
		26/8	-2.91	-3.61	-0.24	0.90	0.66	24	PASS
		52/40	-1.13	-1.57	1.67	0.90	2.57	24	PASS
		106/54	1.96	1.54	4.77	0.90	5.67	24	PASS
185	6875(U-NII 7)	full	4.88	4.63	7.76	0.90	8.66	24	PASS
185	6875(U-NII 8)	full	4.88	4.63	7.76	1.57	9.34	24	PASS
189	6895	full	4.39	4.16	7.28	1.57	8.86	24	PASS
		26/0	-3.85	-4.48	-1.15	1.57	0.43	24	PASS
		52/37	-1.37	-2.11	1.29	1.57	2.86	24	PASS
		106/53	0.90	0.10	3.53	1.57	5.10	24	PASS
209	6995	full	2.97	2.77	5.88	1.57	7.45	24	PASS
233	7115	full	3.72	3.61	6.67	1.57	8.25	24	PASS
		26/8	-6.68	-6.86	-3.76	1.57	-2.19	24	PASS
		52/40	-8.94	-9.03	-5.98	1.57	-4.40	24	PASS
		106/54	-4.49	-4.70	-1.58	1.57	-0.01	24	PASS

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802.11ax_HE40_Ch0

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	5.66	3.07	8.73	24	PASS
		242/61	3.58	3.07	6.65	24	PASS
43	6165	full	5.81	3.07	8.88	24	PASS
91	6405	full	5.03	3.07	8.10	24	PASS
		242/62	2.47	3.07	5.54	24	PASS
99	6445	full	4.65	1.78	6.43	24	PASS
		242/61	2.04	1.78	3.82	24	PASS
107	6485	full	4.69	1.78	6.47	24	PASS
		242/62	2.34	1.78	4.12	24	PASS
115	6525(U-NII 6)	full	4.65	1.78	6.43	24	PASS
115	6525(U-NII 7)	full	4.65	1.78	6.43	24	PASS
123	6565	full	5.41	1.78	7.19	24	PASS
		242/61	3.58	1.78	5.36	24	PASS
147	6685	full	5.94	1.78	7.72	24	PASS
179	6845	full	5.96	1.78	7.74	24	PASS
		242/62	3.34	1.78	5.12	24	PASS
187	6885(U-NII 7)	full	0.51	1.78	2.30	24	PASS
187	6885(U-NII 8)	full	5.69	1.43	7.12	24	PASS
195	6925	full	5.93	1.43	7.36	24	PASS
		242/61	3.52	1.43	4.95	24	PASS
211	7005	full	6.00	1.43	7.43	24	PASS
227	7085	full	4.47	1.43	5.90	24	PASS
		242/62	2.31	1.43	3.74	24	PASS

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	4.88	0.83	5.71	24	PASS
		242/61	2.87	0.83	3.70	24	PASS
43	6165	full	5.16	0.83	5.99	24	PASS
91	6405	full	4.68	0.83	5.51	24	PASS
		242/62	1.98	0.83	2.81	24	PASS
99	6445	full	4.04	-0.21	3.83	24	PASS
		242/61	1.14	-0.21	0.93	24	PASS
107	6485	full	3.84	-0.21	3.63	24	PASS
		242/62	1.22	-0.21	1.01	24	PASS
115	6525(U-NII 6)	full	4.05	-0.21	3.84	24	PASS
115	6525(U-NII 7)	full	4.05	-0.21	3.84	24	PASS
123	6565	full	4.72	-0.21	4.51	24	PASS
		242/61	3.00	-0.21	2.79	24	PASS
147	6685	full	5.59	-0.21	5.38	24	PASS
179	6845	full	5.75	-0.21	5.54	24	PASS
		242/62	2.85	-0.21	2.64	24	PASS
187	6885(U-NII 7)	full	0.47	-0.21	0.26	24	PASS
187	6885(U-NII 8)	full	5.65	1.71	7.36	24	PASS
195	6925	full	5.52	1.71	7.23	24	PASS
		242/61	2.92	1.71	4.63	24	PASS
211	7005	full	5.44	1.71	7.15	24	PASS
227	7085	full	4.05	1.71	5.76	24	PASS
		242/62	1.83	1.71	3.54	24	PASS

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802.11ax_40_2TX

CH	Frequency (MHz)	RU config.	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	5.82	5.11	8.49	2.09	10.58	24	PASS
		242/61	3.66	3.04	6.37	2.09	8.46	24	PASS
43	6165	full	5.94	5.28	8.63	2.09	10.72	24	PASS
91	6405	full	5.10	4.92	8.02	2.09	10.11	24	PASS
		242/62	2.55	2.14	5.36	2.09	7.45	24	PASS
99	6445	full	4.69	4.07	7.40	0.90	8.30	24	PASS
		242/61	2.19	1.24	4.75	0.90	5.65	24	PASS
107	6485	full	4.82	3.99	7.43	0.90	8.33	24	PASS
		242/62	2.46	1.50	5.02	0.90	5.92	24	PASS
115	6525(U-NII 6)	full	4.91	4.38	7.66	0.90	8.56	24	PASS
115	6525(U-NII 7)	full	4.91	4.38	7.66	0.90	8.56	24	PASS
123	6565	full	5.54	4.91	8.24	0.90	9.14	24	PASS
		242/61	3.73	3.19	6.48	0.90	7.38	24	PASS
147	6685	full	6.00	5.69	8.86	0.90	9.76	24	PASS
179	6845	full	6.07	6.02	9.05	0.90	9.95	24	PASS
		242/62	3.45	3.16	6.32	0.90	7.22	24	PASS
187	6885(U-NII 7)	full	0.76	0.68	3.73	0.90	4.63	24	PASS
187	6885(U-NII 8)	full	5.94	5.86	8.91	1.57	10.48	24	PASS
195	6925	full	6.06	5.69	8.89	1.57	10.46	24	PASS
		242/61	3.66	3.15	6.42	1.57	8.00	24	PASS
211	7005	full	6.16	5.62	8.91	1.57	10.48	24	PASS
227	7085	full	4.65	4.37	7.52	1.57	9.09	24	PASS
		242/62	2.44	2.10	5.28	1.57	6.86	24	PASS

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802.11ax_HE80_Ch0

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	8.68	3.07	11.75	24	PASS
		484/65	5.67	3.07	8.74	24	PASS
39	6145	full	8.75	3.07	11.82	24	PASS
87	6385	full	6.98	3.07	10.05	24	PASS
		484/66	5.37	3.07	8.44	24	PASS
103	6465	full	6.86	1.78	8.64	24	PASS
		484/65	4.92	1.78	6.70	24	PASS
		484/66	5.09	1.78	6.87	24	PASS
119	6545(U-NII 6)	full	1.65	1.78	3.43	24	PASS
119	6545(U-NII 7)	full	6.69	1.78	8.47	24	PASS
135	6625	full	7.92	1.78	9.70	24	PASS
		484/65	5.74	1.78	7.52	24	PASS
151	6705	full	8.89	1.78	10.67	24	PASS
167	6785	full	8.64	1.78	10.42	24	PASS
		484/66	5.36	1.78	7.14	24	PASS
183	6865(U-NII 7)	full	7.32	1.78	9.10	24	PASS
183	6865(U-NII 8)	full	5.00	1.43	6.43	24	PASS
199	6945	full	7.21	1.43	8.64	24	PASS
		484/65	5.76	1.43	7.19	24	PASS
215	7025	full	7.87	1.43	9.30	24	PASS
		484/66	6.27	1.43	7.70	24	PASS

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802.11ax_HE80_Ch1

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	8.22	0.83	9.05	24	PASS
		484/65	4.78	0.83	5.61	24	PASS
39	6145	full	8.14	0.83	8.97	24	PASS
87	6385	full	6.79	0.83	7.62	24	PASS
		484/66	5.24	0.83	6.07	24	PASS
103	6465	full	6.66	-0.21	6.45	24	PASS
		484/65	4.73	-0.21	4.52	24	PASS
		484/66	4.49	-0.21	4.28	24	PASS
119	6545(U-NII 6)	full	1.36	-0.21	1.15	24	PASS
119	6545(U-NII 7)	full	6.40	-0.21	6.19	24	PASS
135	6625	full	7.64	-0.21	7.43	24	PASS
		484/65	5.46	-0.21	5.25	24	PASS
151	6705	full	8.26	-0.21	8.05	24	PASS
167	6785	full	8.31	-0.21	8.10	24	PASS
		484/66	5.12	-0.21	4.91	24	PASS
183	6865(U-NII 7)	full	7.12	-0.21	6.91	24	PASS
183	6865(U-NII 8)	full	4.80	1.71	6.51	24	PASS
199	6945	full	7.16	1.71	8.87	24	PASS
		484/65	5.10	1.71	6.81	24	PASS
215	7025	full	7.30	1.71	9.01	24	PASS
		484/66	5.71	1.71	7.42	24	PASS

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802.11ax_80_2TX

CH	Frequency (MHz)	RU config.	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	8.82	8.36	11.61	2.09	13.70	24	PASS
		484/65	5.82	4.93	8.41	2.09	10.50	24	PASS
39	6145	full	8.85	8.40	11.64	2.09	13.74	24	PASS
87	6385	full	7.15	6.89	10.03	2.09	12.13	24	PASS
		484/66	5.59	5.42	8.52	2.09	10.61	24	PASS
103	6465	full	7.03	6.74	9.90	0.90	10.80	24	PASS
		484/65	5.10	4.86	7.99	0.90	8.89	24	PASS
		484/66	5.22	4.70	7.98	0.90	8.88	24	PASS
119	6545(U-NII 6)	full	1.80	1.55	4.69	0.90	5.59	24	PASS
119	6545(U-NII 7)	full	6.84	6.59	9.72	0.90	10.62	24	PASS
135	6625	full	8.08	7.81	10.96	0.90	11.86	24	PASS
		484/65	5.87	5.54	8.72	0.90	9.62	24	PASS
151	6705	full	9.07	8.39	11.75	0.90	12.65	24	PASS
167	6785	full	8.86	8.45	11.67	0.90	12.57	24	PASS
		484/66	5.68	5.29	8.50	0.90	9.40	24	PASS
183	6865(U-NII 7)	full	7.40	7.19	10.30	0.90	11.20	24	PASS
183	6865(U-NII 8)	full	5.08	4.87	7.99	1.57	9.56	24	PASS
199	6945	full	7.63	7.28	10.47	1.57	12.04	24	PASS
		484/65	6.03	5.35	8.72	1.57	10.29	24	PASS
215	7025	full	8.18	7.46	10.85	1.57	12.42	24	PASS
		484/66	6.51	5.81	9.19	1.57	10.76	24	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

§15.407(a)

(4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.

(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.

(6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.

(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1- megahertz band.

(8) For client devices operating under the control of an indoor access point in the 5.925- 7.125 GHz bands, the maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band.

EUT CATEGORY		Equipment Class	§15.407(a)
	Very low power devices	VLP	EIRP < -5dBm/MHz
	Standard Access Point	6SD	EIRP < 23dBm/MHz
	indoor Access Point	6ID	EIRP < 5dBm/MHz
	Subordinate Device	6PP	EIRP < 5dBm/MHz
	Fixed Client	6FC	EIRP < 23dBm/MHz
V	Indoor Client	6XD	EIRP < -1dBm/MHz
	Standard Client	6FX	EIRP < 17dBm/MHz
	Dual Client	6CD	Compliance both indoor clinet and standard client limits

Note:

When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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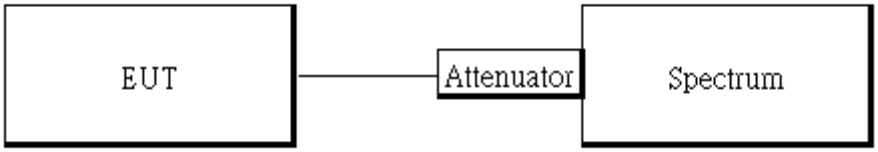
- $$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;
NSS = the number of independent spatial streams of data;
NANT = the total number of antennas
$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;
G_k is the gain in dBi of the kth antenna.

10.2 Test Setup



10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. User the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle ≥ 98%：Record the max. reading.
   (2)Duty cycle < 98%：Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antennas.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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10.4 Measurement Result

10.4.1 Power spectral density

POWER DENSITY 802.11a MODE								
Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Ch0 meas	Ch1 meas						
5955	-10.063	-10.998	1.04	-6.46	5.03	-1.43	-1.00	-0.43
6175	-10.978	-10.927	1.04	-6.90	5.03	-1.87	-1.00	-0.87
6415	-11.547	-10.762	1.04	-7.09	5.03	-2.06	-1.00	-1.06
6435	-11.054	-10.269	1.04	-6.59	3.85	-2.74	-1.00	-1.74
6475	-10.687	-11.594	1.04	-7.07	3.85	-3.22	-1.00	-2.22
6515	-11.413	-11.065	1.04	-7.19	3.85	-3.34	-1.00	-2.34
6535	-10.500	-10.600	1.04	-6.50	3.85	-2.65	-1.00	-1.65
6695	-10.771	-10.610	1.04	-6.64	3.85	-2.79	-1.00	-1.79
6855	-10.851	-11.001	1.04	-6.88	3.85	-3.03	-1.00	-2.03
6875(U-NII 7)	-13.432	-13.165	1.04	-10.29	3.85	-6.44	-1.00	-5.44
6875(U-NII 8)	-13.432	-13.165	1.04	-10.29	4.58	-5.71	-1.00	-4.71
6895	-11.064	-10.363	1.04	-6.65	4.58	-2.07	-1.00	-1.07
6995	-11.035	-10.863	1.04	-6.90	4.58	-2.32	-1.00	-1.32
7115	-10.702	-11.122	1.04	-6.86	4.58	-2.28	-1.00	-1.28

POWER DENSITY 802.11n HT20 MODE								
Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)	Maxmum Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Ch0 meas	Ch1 meas						
5955	-11.671	-12.301	1.13	-10.54	3.07	-7.47	-1.00	-6.47
6175	-12.095	-11.954	1.13	-10.82	3.07	-7.75	-1.00	-6.75
6415	-12.388	-11.172	1.13	-10.04	3.07	-6.97	-1.00	-5.97
6435	-12.791	-11.277	1.13	-10.15	1.78	-8.37	-1.00	-7.37
6475	-11.614	-10.896	1.13	-9.77	1.78	-7.99	-1.00	-6.99
6515	-11.401	-11.099	1.13	-9.97	1.78	-8.19	-1.00	-7.19
6535	-11.690	-11.512	1.13	-10.38	1.78	-8.60	-1.00	-7.60
6695	-11.562	-11.504	1.13	-10.37	1.78	-8.59	-1.00	-7.59
6855	-11.926	-11.783	1.13	-10.65	1.78	-8.87	-1.00	-7.87
6875(U-NII 7)	-13.984	-13.920	1.13	-13.92	1.78	-12.14	-1.00	-11.14
6875(U-NII 8)	-13.984	-13.920	1.13	-13.92	1.71	-12.21	-1.00	-11.21
6895	-11.075	-11.397	1.13	-9.95	1.71	-8.24	-1.00	-7.24
6995	-11.387	-10.748	1.13	-9.62	1.71	-7.91	-1.00	-6.91
7115	-10.711	-11.239	1.13	-9.58	1.71	-7.87	-1.00	-6.87

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POWER DENSITY 802.11n HT40 MODE								
Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Ch0 meas	Ch1 meas						
5965	-12.131	-12.664	1.11	-8.27	5.03	-3.24	-1.00	-2.24
6165	-12.316	-11.655	1.11	-7.85	5.03	-2.82	-1.00	-1.82
6405	-11.643	-10.108	1.11	-6.69	5.03	-1.66	-1.00	-0.66
6445	-12.690	-11.326	1.11	-7.83	3.85	-3.98	-1.00	-2.98
6485	-11.952	-10.700	1.11	-7.16	3.85	-3.31	-1.00	-2.31
6525(U-NII 6)	-13.636	-12.880	1.11	-10.23	3.85	-6.38	-1.00	-5.38
6525(U-NII 7)	-13.636	-12.880	1.11	-10.23	3.85	-6.38	-1.00	-5.38
6565	-12.217	-11.513	1.11	-7.73	3.85	-3.88	-1.00	-2.88
6685	-13.087	-11.943	1.11	-8.36	3.85	-4.51	-1.00	-3.51
6845	-12.869	-13.144	1.11	-8.88	3.85	-5.03	-1.00	-4.03
6885(U-NII 7)	-17.173	-17.187	1.11	-14.17	3.85	-10.32	-1.00	-9.32
6885(U-NII 8)	-11.705	-11.699	1.11	-8.69	4.58	-4.11	-1.00	-3.11
6925	-11.953	-12.743	1.11	-8.21	4.58	-3.63	-1.00	-2.63
7005	-11.625	-11.222	1.11	-7.30	4.58	-2.72	-1.00	-1.72
7085	-12.042	-10.785	1.11	-7.25	4.58	-2.67	-1.00	-1.67

POWER DENSITY 802.11ac VHT80 MODE								
Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Ch0 meas	Ch1 meas						
5985	-13.658	-14.490	3.35	-7.69	5.03	-2.66	-1.00	-1.66
6145	-14.669	-13.505	3.35	-7.69	5.03	-2.66	-1.00	-1.66
6385	-13.488	-13.073	3.35	-6.92	5.03	-1.89	-1.00	-0.89
6465	-14.589	-12.628	3.35	-7.14	3.85	-3.29	-1.00	-2.29
6545(U-NII 6)	-16.578	-16.817	3.35	-13.69	3.85	-9.84	-1.00	-8.84
6545(U-NII 7)	-11.399	-11.646	3.35	-8.51	3.85	-4.66	-1.00	-3.66
6625	-13.327	-13.328	3.35	-6.97	3.85	-3.12	-1.00	-2.12
6705	-15.652	-15.168	3.35	-9.04	3.85	-5.19	-1.00	-4.19
6785	-13.764	-15.545	3.35	-8.20	3.85	-4.35	-1.00	-3.35
6865(U-NII 7)	-11.884	-11.988	3.35	-8.93	3.85	-5.08	-1.00	-4.08
6865(U-NII 8)	-14.248	-14.359	3.35	-11.29	4.58	-6.71	-1.00	-5.71
6945	-13.354	-13.545	3.35	-7.09	4.58	-2.51	-1.00	-1.51
7025	-14.513	-13.560	3.35	-7.65	4.58	-3.07	-1.00	-2.07

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POWER DENSITY 802.11ax HE20 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		Ch0 meas	Ch1 meas						
5955	full	-11.423	-11.930	1.40	-7.26	5.03	-2.23	-1.00	-1.23
	26/0	-9.650	-11.360	0.86	-6.55	5.03	-1.52	-1.00	-0.52
	52/37	-9.768	-11.608	0.94	-6.64	5.03	-1.61	-1.00	-0.61
	106/53	-10.507	-11.109	1.02	-6.77	5.03	-1.74	-1.00	-0.74
6175	full	-11.447	-11.058	1.40	-6.84	5.03	-1.81	-1.00	-0.81
6415	full	-11.526	-11.106	1.40	-6.90	5.03	-1.87	-1.00	-0.87
	26/8	-11.470	-9.635	0.86	-6.59	5.03	-1.56	-1.00	-0.56
	52/40	-11.312	-10.484	0.94	-6.93	5.03	-1.90	-1.00	-0.90
	106/54	-11.320	-10.108	1.02	-6.64	5.03	-1.61	-1.00	-0.61
6435	full	-12.057	-11.163	1.40	-7.18	3.85	-3.33	-1.00	-2.33
	26/0	-11.458	-9.878	0.86	-6.73	3.85	-2.88	-1.00	-1.88
	52/37	-11.503	-10.123	0.94	-6.81	3.85	-2.96	-1.00	-1.96
	106/53	-11.828	-10.323	1.02	-6.98	3.85	-3.13	-1.00	-2.13
6475	full	-11.172	-10.659	1.40	-6.50	3.85	-2.65	-1.00	-1.65
6515	full	-11.133	-11.158	1.40	-6.74	3.85	-2.89	-1.00	-1.89
	26/8	-10.545	-10.791	0.86	-6.80	3.85	-2.95	-1.00	-1.95
	52/40	-10.573	-10.923	0.94	-6.79	3.85	-2.94	-1.00	-1.94
	106/54	-10.787	-10.262	1.02	-6.49	3.85	-2.64	-1.00	-1.64
6535	full	-11.498	-11.905	1.40	-7.29	3.85	-3.44	-1.00	-2.44
	26/0	-10.559	-10.964	0.86	-6.89	3.85	-3.04	-1.00	-2.04
	52/37	-10.268	-11.043	0.94	-6.69	3.85	-2.84	-1.00	-1.84
	106/53	-10.903	-10.298	1.02	-6.56	3.85	-2.71	-1.00	-1.71
6695	full	-11.369	-11.790	1.40	-7.16	3.85	-3.31	-1.00	-2.31
6855	full	-11.505	-11.757	1.40	-7.22	3.85	-3.37	-1.00	-2.37
	26/8	-9.918	-10.884	0.86	-6.50	3.85	-2.65	-1.00	-1.65
	52/40	-10.720	-10.794	0.94	-6.81	3.85	-2.96	-1.00	-1.96
	106/54	-10.751	-10.762	1.02	-6.73	3.85	-2.88	-1.00	-1.88
6875(U-NII 7)	full	-9.226	-10.184	1.40	-6.67	3.85	-2.82	-1.00	-1.82
6875(U-NII 8)	full	-9.226	-10.184	1.40	-6.67	4.58	-2.09	-1.00	-1.09
6895	full	-10.178	-12.436	1.40	-6.75	4.58	-2.17	-1.00	-1.17
	26/0	-11.886	-11.494	0.86	-7.82	4.58	-3.24	-1.00	-2.24
	52/37	-12.300	-11.650	0.94	-8.01	4.58	-3.43	-1.00	-2.43
	106/53	-10.440	-11.086	1.02	-6.72	4.58	-2.14	-1.00	-1.14
6995	full	-11.049	-10.612	1.40	-6.41	4.58	-1.83	-1.00	-0.83
7115	full	-11.552	-11.934	1.40	-7.33	4.58	-2.75	-1.00	-1.75
	26/8	-10.139	-10.800	0.86	-6.59	4.58	-2.01	-1.00	-1.01
	52/40	-16.502	-16.793	0.94	-12.69	4.58	-8.11	-1.00	-7.11
	106/54	-15.416	-15.601	1.02	-11.48	4.58	-6.90	-1.00	-5.90

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POWER DENSITY 802.11ax HE40 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		Ch0 meas	Ch1 meas						
5965	full	-11.499	-13.047	2.32	-6.87	5.03	-1.84	-1.00	-0.84
	242/61	-12.315	-12.171	1.18	-8.05	5.03	-3.02	-1.00	-2.02
6165	full	-12.479	-12.506	2.32	-7.16	5.03	-2.13	-1.00	-1.13
6405	full	-12.275	-11.266	2.32	-6.41	5.03	-1.38	-1.00	-0.38
	242/62	-11.194	-12.784	1.18	-7.73	5.03	-2.70	-1.00	-1.70
6445	full	-12.983	-12.231	2.32	-7.26	3.85	-3.41	-1.00	-2.41
	242/61	-13.208	-11.530	1.18	-8.10	3.85	-4.25	-1.00	-3.25
6485	full	-11.956	-11.600	2.32	-6.44	3.85	-2.59	-1.00	-1.59
	242/62	-12.372	-11.458	1.18	-7.70	3.85	-3.85	-1.00	-2.85
6525(U-NII 6)	full	-10.228	-9.048	2.32	-6.59	3.85	-2.74	-1.00	-1.74
6525(U-NII 7)	full	-10.228	-9.048	2.32	-6.59	3.85	-2.74	-1.00	-1.74
6565	full	-12.960	-12.259	2.32	-7.27	3.85	-3.42	-1.00	-2.42
	242/61	-11.436	-11.113	1.18	-7.08	3.85	-3.23	-1.00	-2.23
6685	full	-12.731	-12.216	2.32	-7.14	3.85	-3.29	-1.00	-2.29
6845	full	-12.912	-12.215	2.32	-7.22	3.85	-3.37	-1.00	-2.37
	242/62	-13.302	-12.755	1.18	-8.83	3.85	-4.98	-1.00	-3.98
6885(U-NII 7)	full	-14.978	-15.480	2.32	-12.21	3.85	-8.36	-1.00	-7.36
6885(U-NII 8)	full	-9.807	-10.306	2.32	-7.04	4.58	-2.46	-1.00	-1.46
6925	full	-11.876	-11.973	2.32	-6.59	4.58	-2.01	-1.00	-1.01
	242/61	-10.970	-11.322	1.18	-6.95	4.58	-2.37	-1.00	-1.37
7005	full	-12.061	-11.753	2.32	-6.57	4.58	-1.99	-1.00	-0.99
7085	full	-12.311	-12.380	2.32	-7.02	4.58	-2.44	-1.00	-1.44
	242/62	-12.074	-11.512	1.18	-7.59	4.58	-3.01	-1.00	-2.01

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POWER DENSITY 802.11ax HE80 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		Ch0 meas	Ch1 meas						
5985	full	-13.932	-14.039	3.61	-7.36	5.03	-2.33	-1.00	-1.33
	484/65	-12.841	-13.500	2.08	-8.07	5.03	-3.04	-1.00	-2.04
6145	full	-15.062	-12.772	3.61	-7.15	5.03	-2.12	-1.00	-1.12
6385	full	-13.987	-13.391	3.61	-7.06	5.03	-2.03	-1.00	-1.03
	484/66	-12.392	-11.493	2.08	-6.83	5.03	-1.80	-1.00	-0.80
6465	full	-14.263	-13.143	3.61	-7.05	3.85	-3.20	-1.00	-2.20
	484/65	-13.293	-11.130	2.08	-6.99	3.85	-3.14	-1.00	-2.14
	484/66	-11.211	-11.858	2.08	-6.43	3.85	-2.58	-1.00	-1.58
6545	**full**	-12.669	-14.153	3.61	-6.73	3.85	-2.88	-1.00	-1.88
6545(U-NII 6)	full	-15.281	-16.761	3.61	-12.95	3.85	-9.10	-1.00	-8.10
6545(U-NII 7)	full	-10.243	-11.729	3.61	-7.91	3.85	-4.06	-1.00	-3.06
6625	full	-14.163	-12.492	3.61	-6.63	3.85	-2.78	-1.00	-1.78
	484/65	-12.601	-14.100	2.08	-8.20	3.85	-4.35	-1.00	-3.35
6705	full	-13.720	-13.124	3.61	-6.79	3.85	-2.94	-1.00	-1.94
6785	full	-13.176	-13.366	3.61	-6.65	3.85	-2.80	-1.00	-1.80
	484/66	-13.998	-13.929	2.08	-8.87	3.85	-5.02	-1.00	-4.02
6865	**full**	-13.741	-13.164	3.61	-6.82	3.85	-2.97	-1.00	-1.97
6865(U-NII 7)	full	-12.137	-11.558	3.61	-8.83	3.85	-4.98	-1.00	-3.98
6865(U-NII 8)	full	-14.450	-13.876	3.61	-11.14	4.58	-6.56	-1.00	-5.56
6945	full	-13.348	-13.919	3.61	-7.00	4.58	-2.42	-1.00	-1.42
	484/65	-11.820	-12.631	2.08	-7.12	4.58	-2.54	-1.00	-1.54
7025	full	-13.534	-13.632	3.61	-6.96	4.58	-2.38	-1.00	-1.38
	484/66	-11.791	-11.620	2.08	-6.61	4.58	-2.03	-1.00	-1.03

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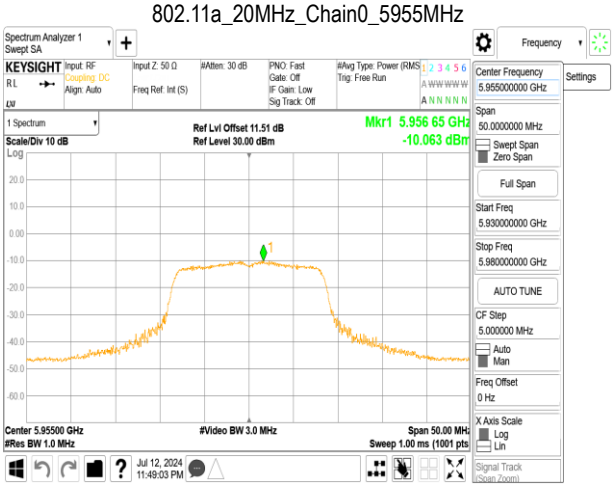
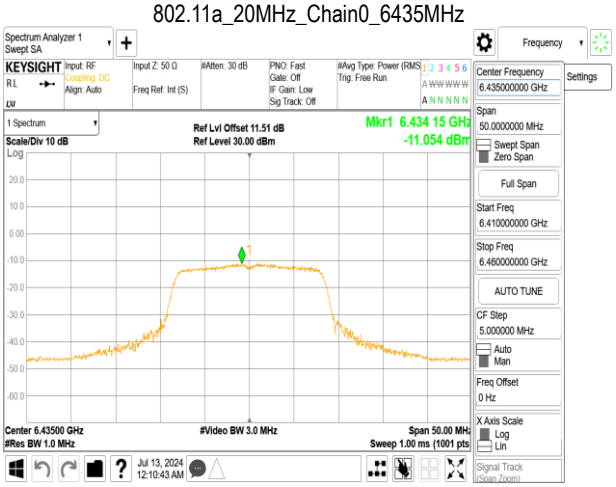
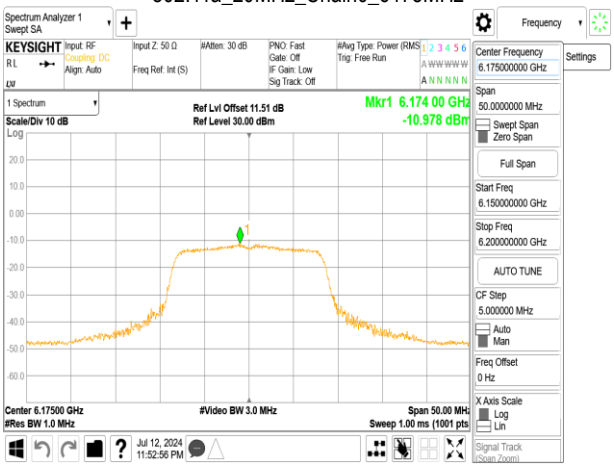
802.11a_20MHz_Chain0_5955MHz



802.11a_20MHz_Chain0_6435MHz



802.11a_20MHz_Chain0_6175MHz



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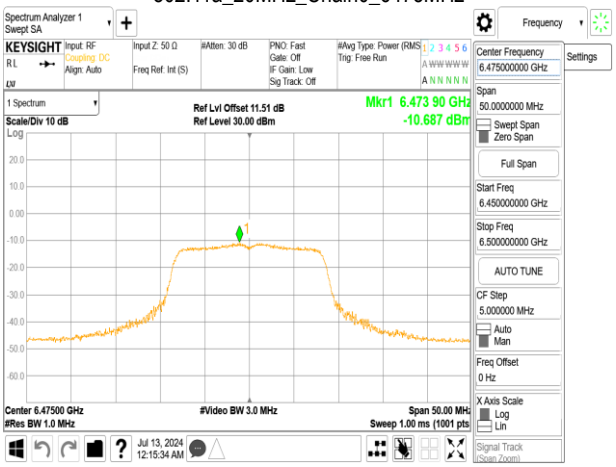
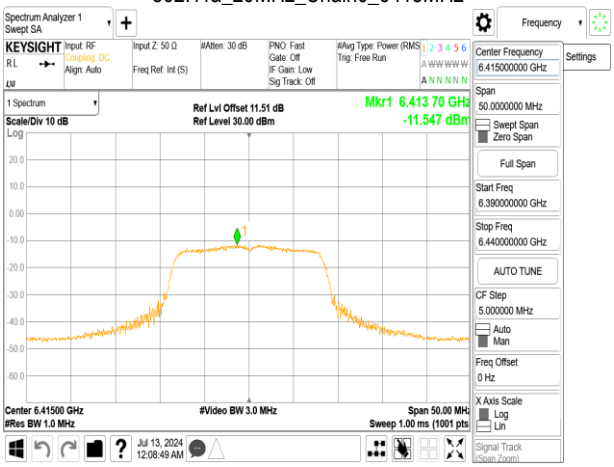


802.11a_20MHz_Chain0_6415MHz



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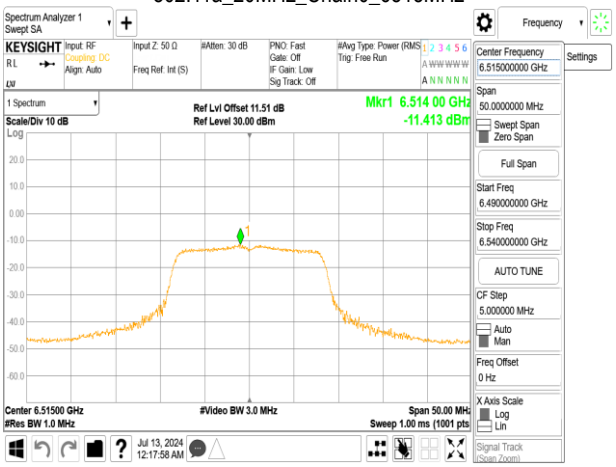

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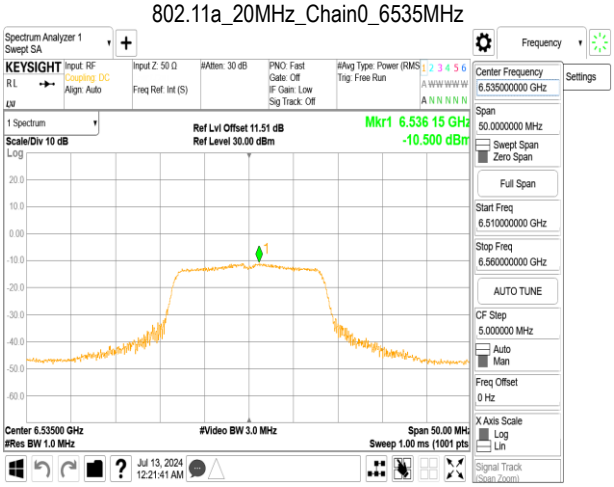
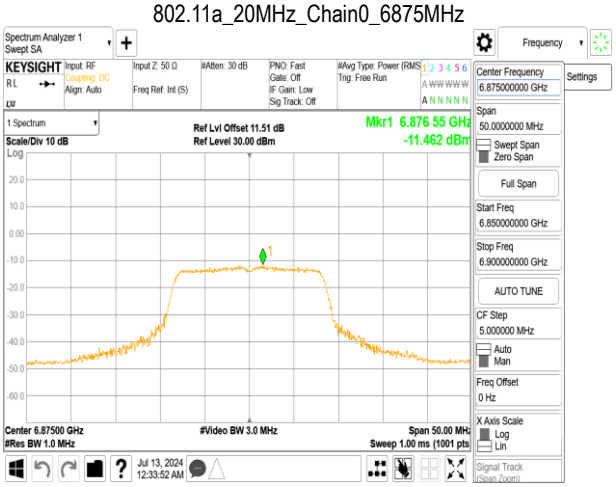
802.11a_20MHz_Chain0_6535MHz



802.11a_20MHz_Chain0_6875MHz



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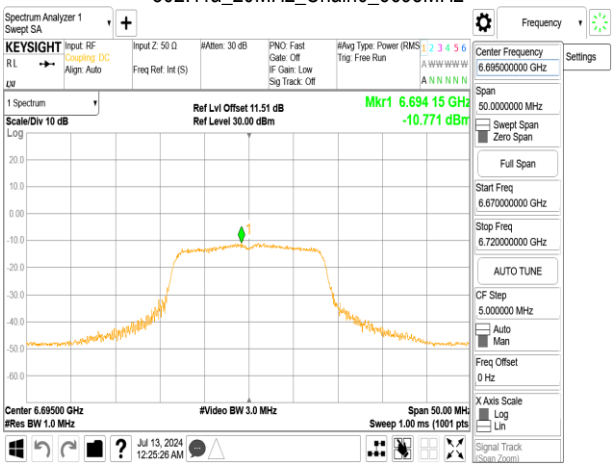

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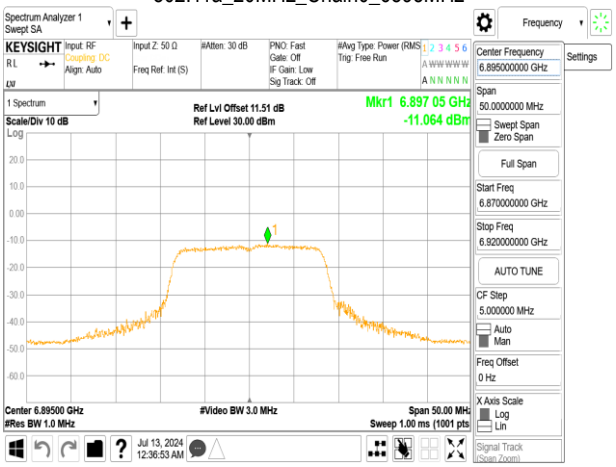

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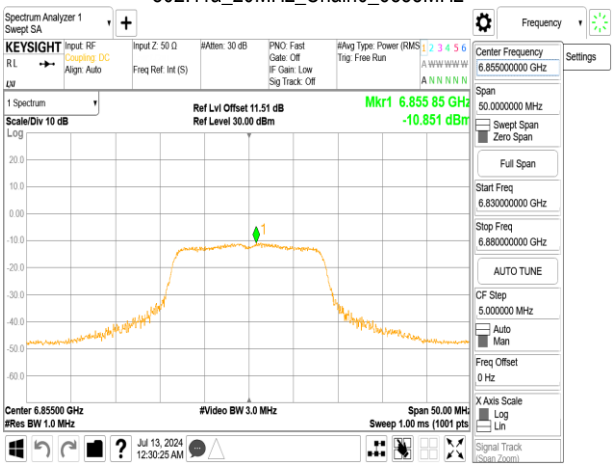

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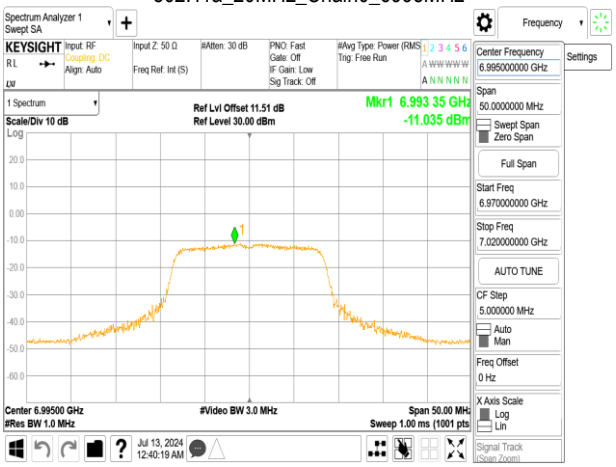

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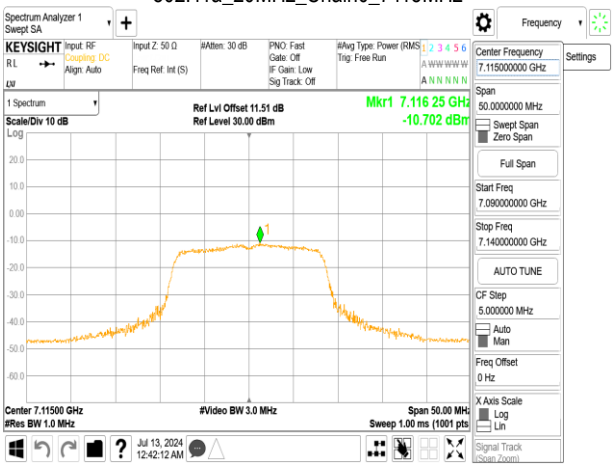
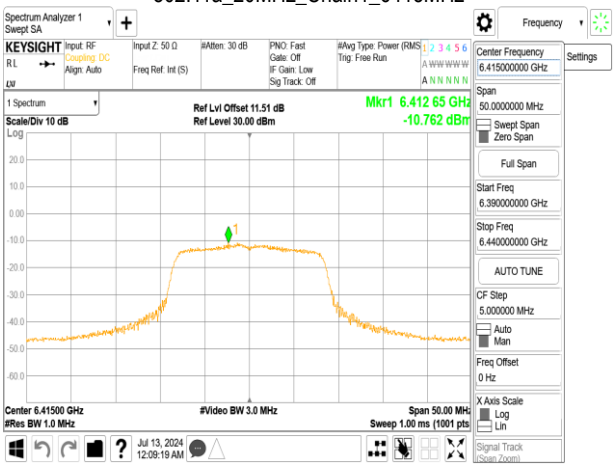
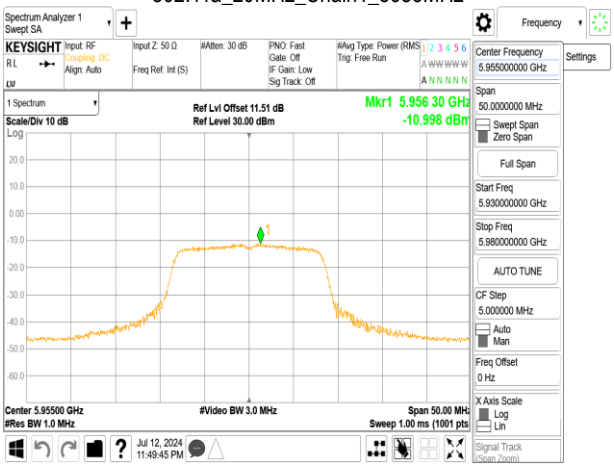
802.11a_20MHz_Chain0_7115MHz



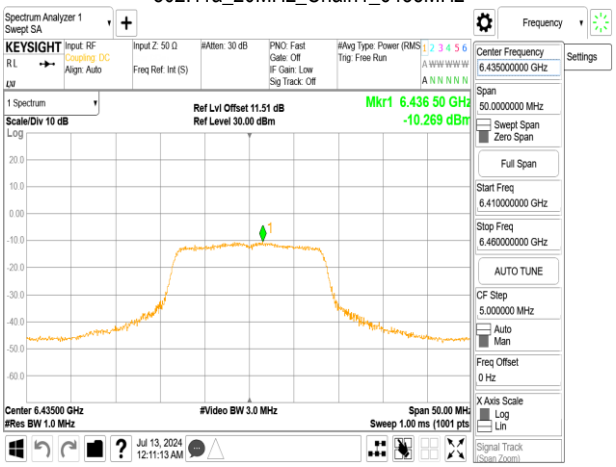
802.11a_20MHz_Chain1_6415MHz



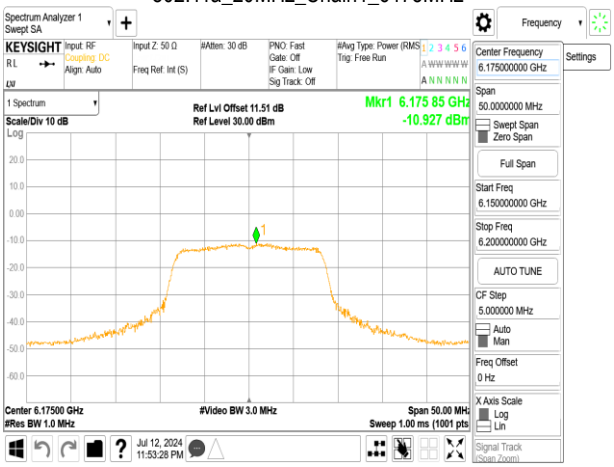
802.11a_20MHz_Chain1_5955MHz



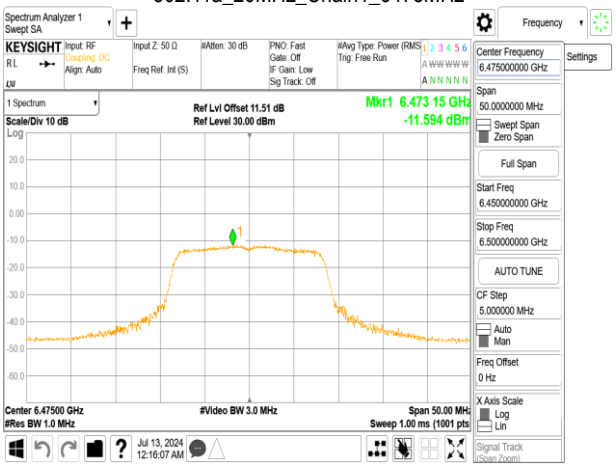
802.11a_20MHz_Chain1_6435MHz



802.11a_20MHz_Chain1_6175MHz



802.11a_20MHz_Chain1_6475MHz



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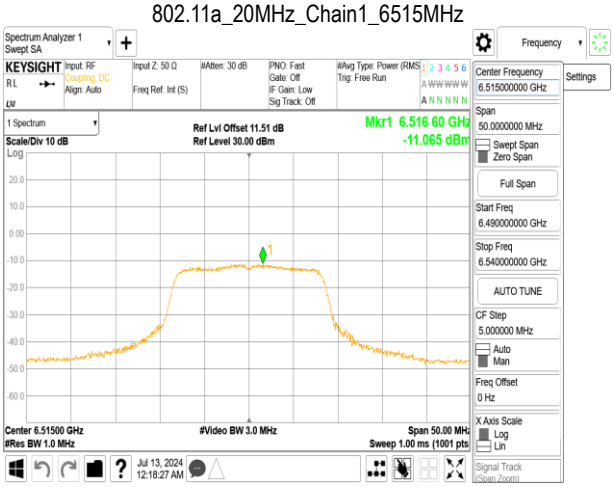
802.11a_20MHz_Chain1_6515MHz



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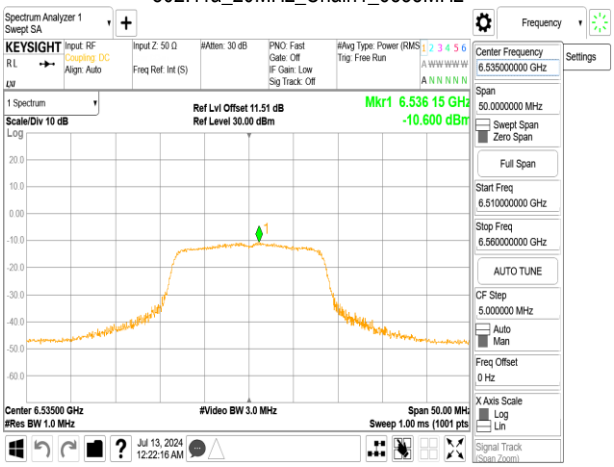
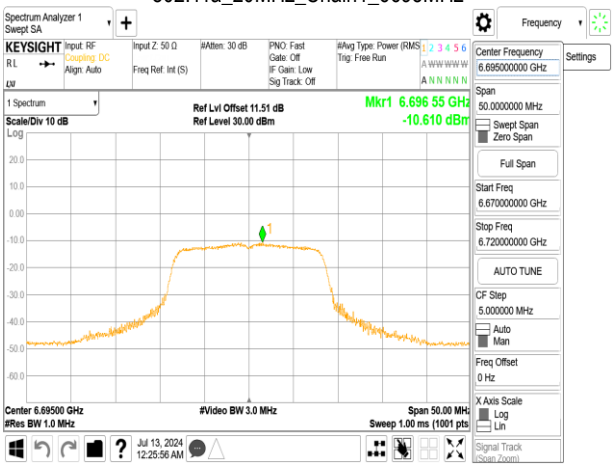
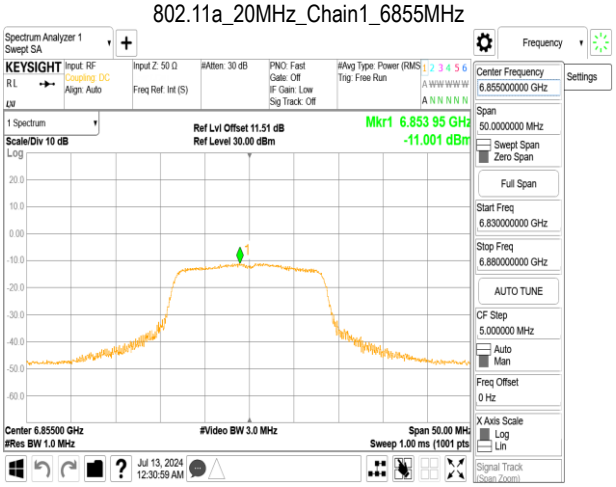


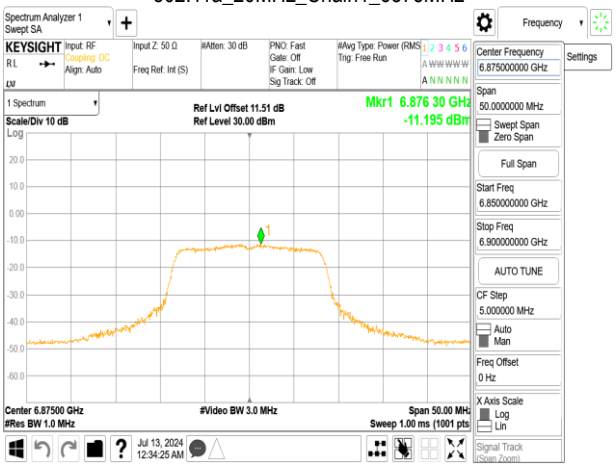
802.11a_20MHz_Chain1_6695MHz



802.11a_20MHz_Chain1_6855MHz



802.11a_20MHz_Chain1_6875MHz



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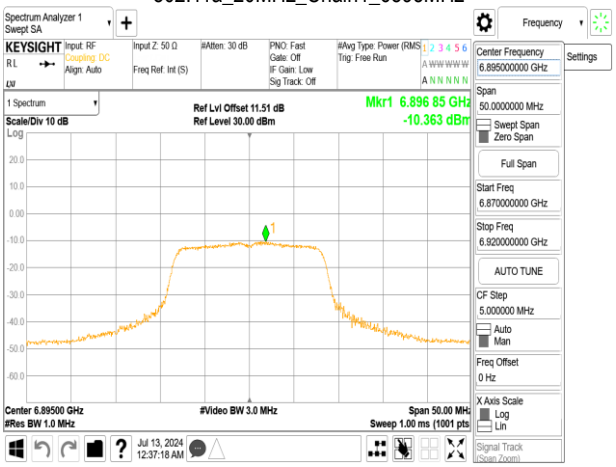

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