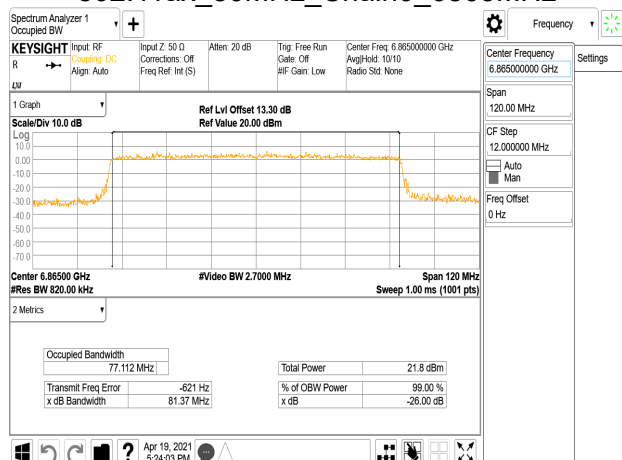


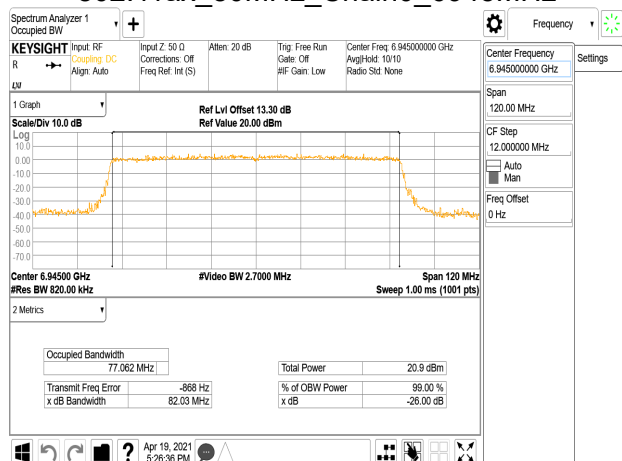
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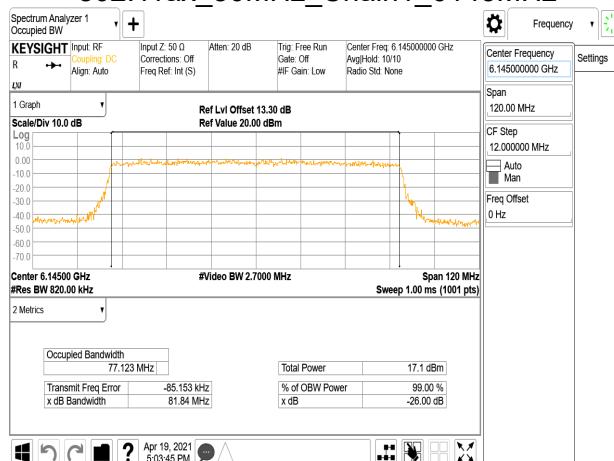
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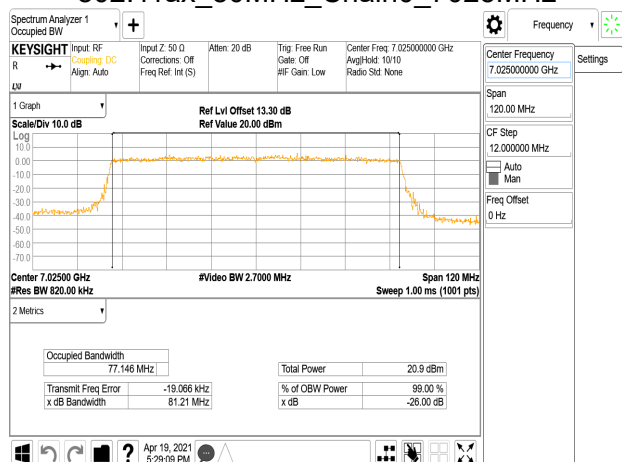
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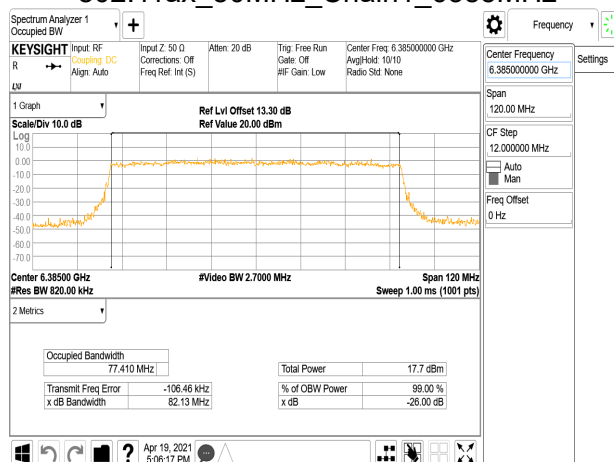
802.11ax_80MHz_Chain1_6145MHz



802.11ax_80MHz_Chain0_7025MHz



802.11ax_80MHz_Chain1_6385MHz



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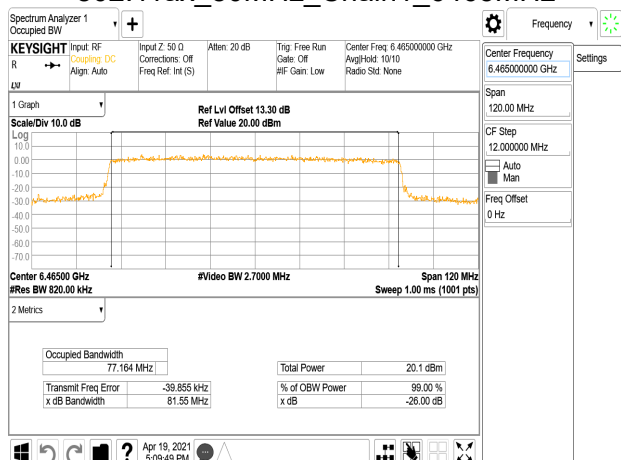
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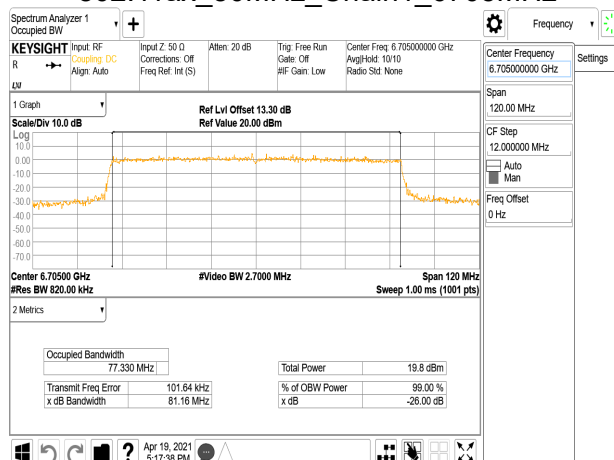
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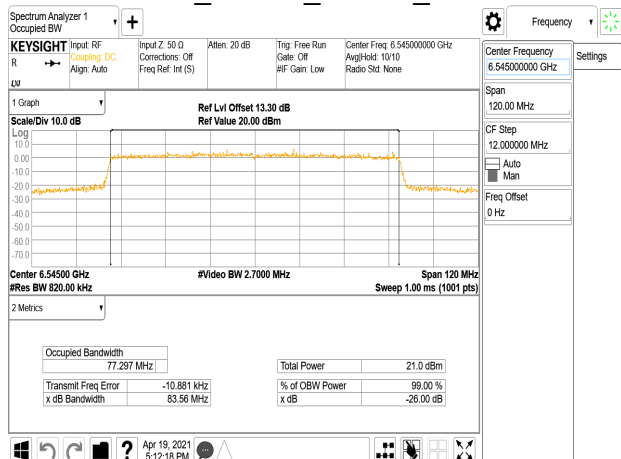
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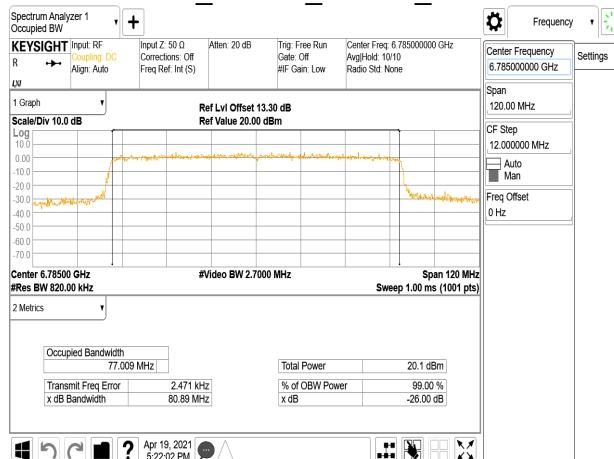
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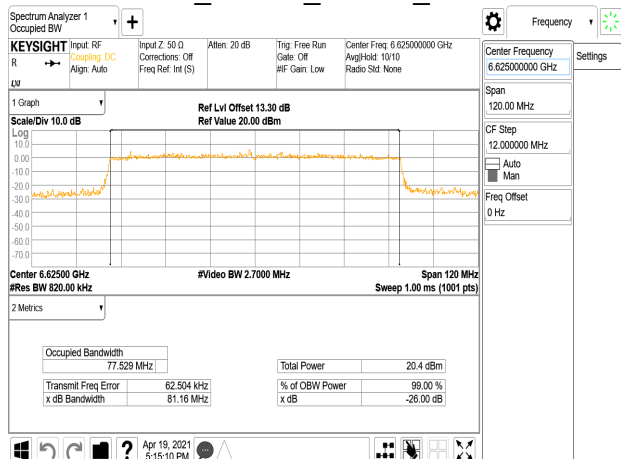
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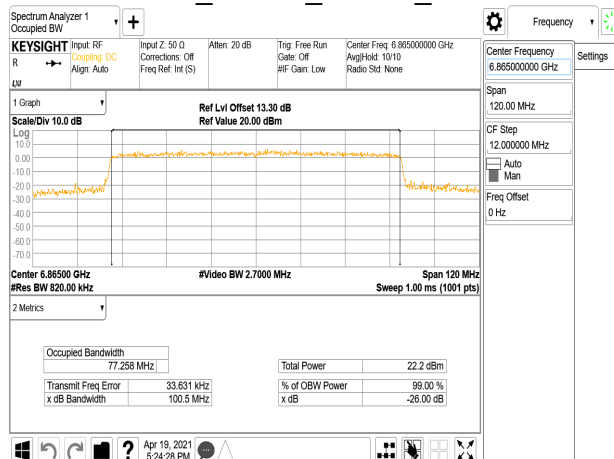
802.11ax_80MHz_Chain1_6785MHz



802.11ax_80MHz_Chain1_6625MHz



802.11ax_80MHz_Chain1_6865MHz



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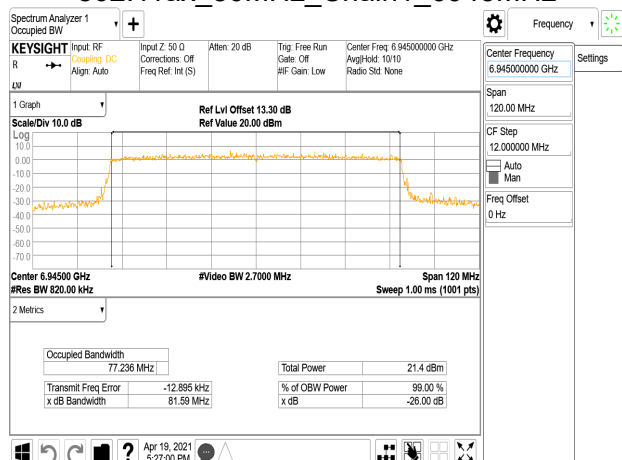
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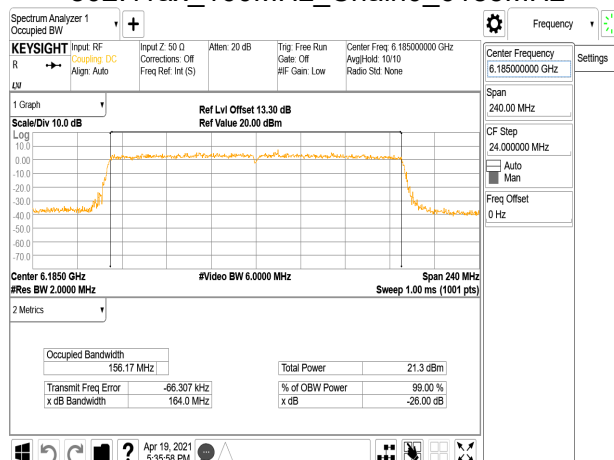
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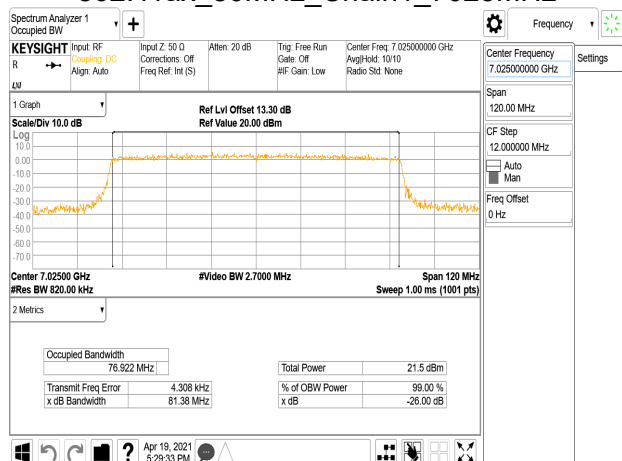
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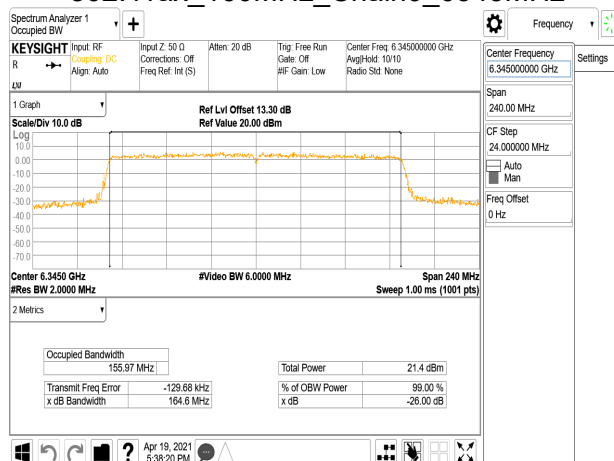
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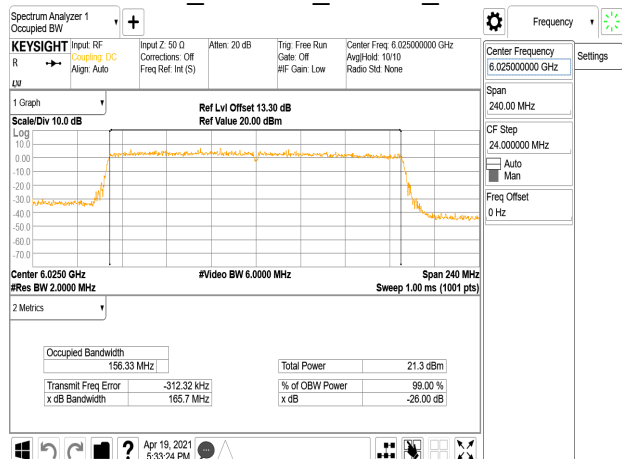
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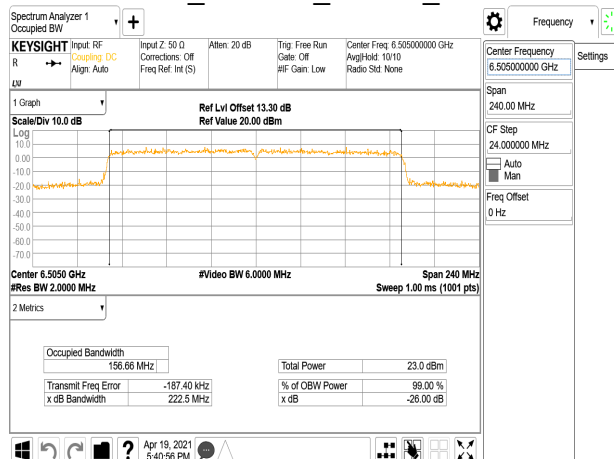
802.11ax_160MHz_Chain0_6345MHz



802.11ax_160MHz_Chain0_6025MHz



802.11ax_160MHz_Chain0_6505MHz



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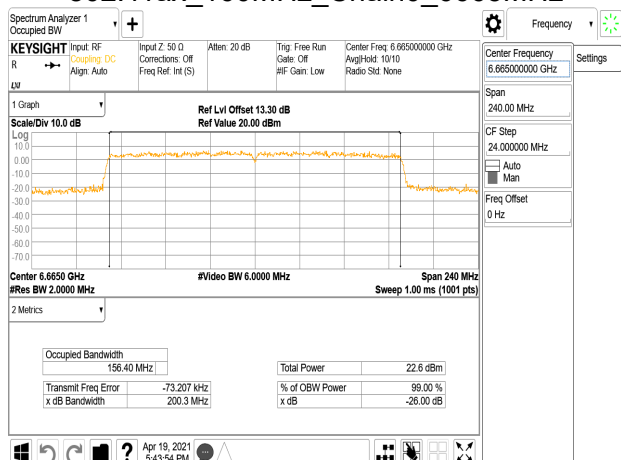
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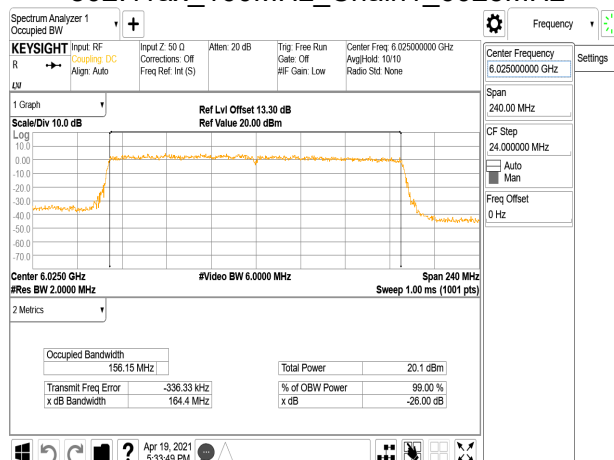
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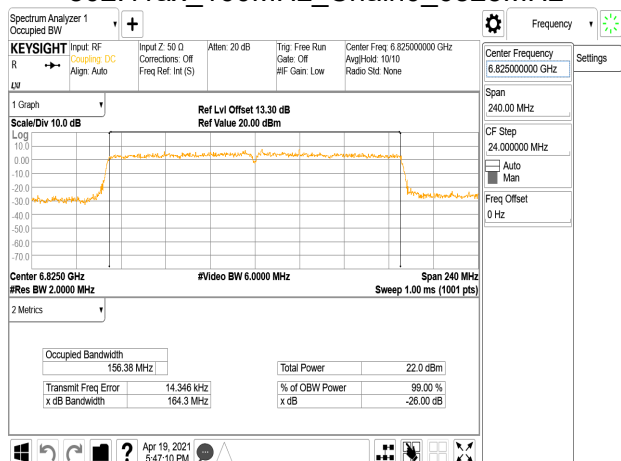
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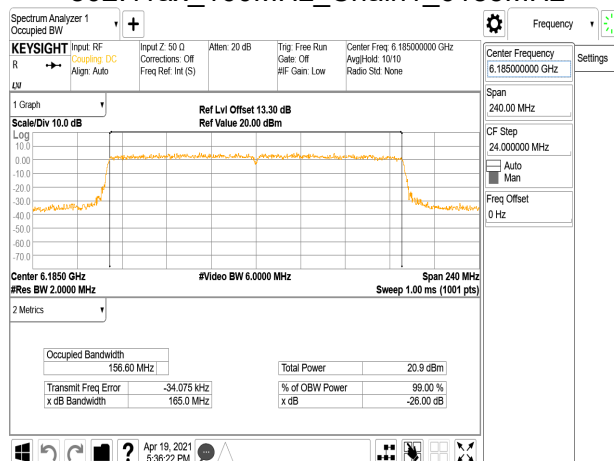
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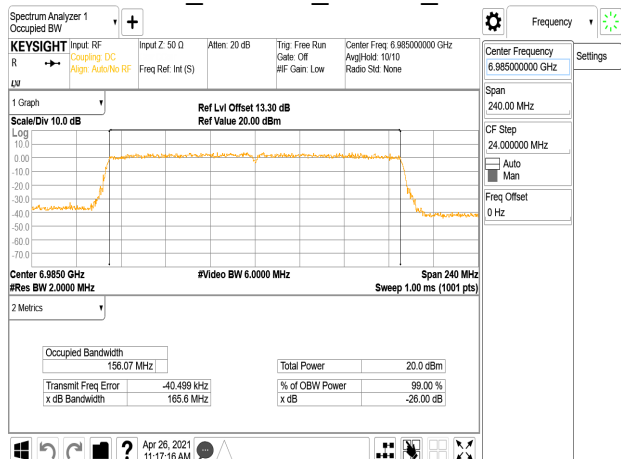
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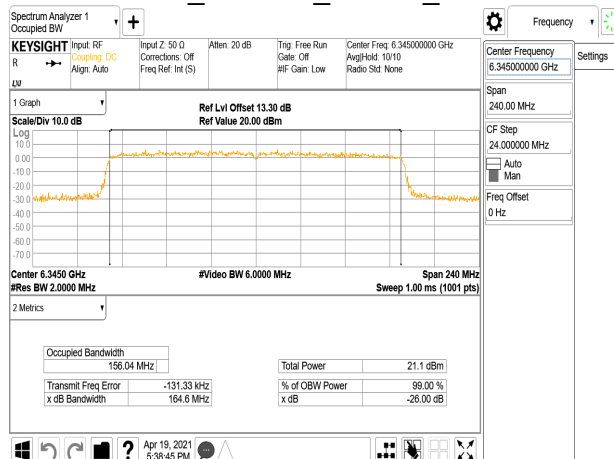
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802.11ax_160MHz_Chain0_6985MHz



802.11ax_160MHz_Chain1_6345MHz



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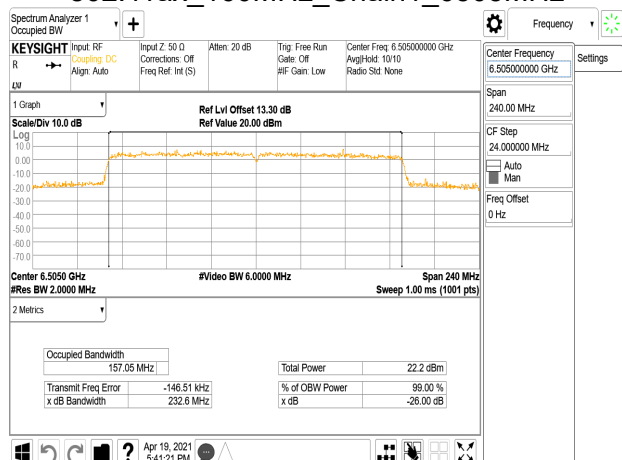
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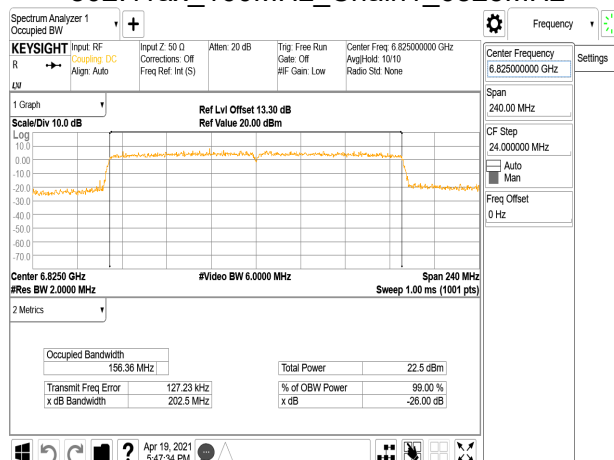
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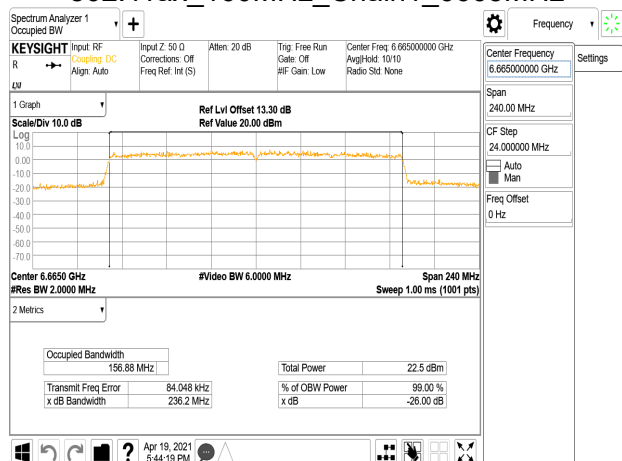
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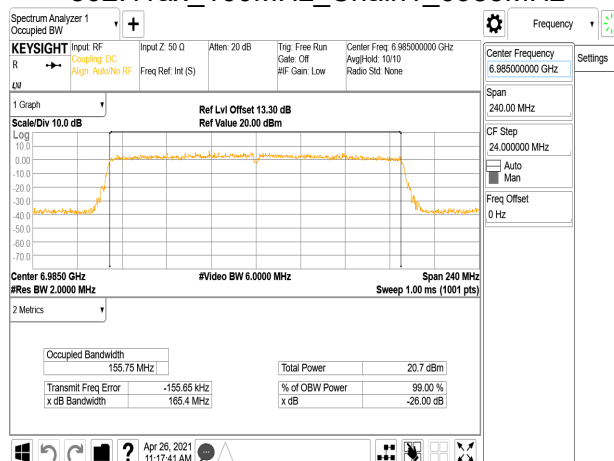
802.11ax_160MHz_Chain1_6825MHz



802.11ax_160MHz_Chain1_6665MHz



802.11ax_160MHz_Chain1_6985MHz



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9 MAXIMUM OUTPUT POWER

9.1 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. In addition, 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 power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, 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 power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band, and 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 power spectral density must not exceed 17 dBm e.i.r.p. in any 1- megahertz band, and 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 power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and 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	Limit
☐ 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
☒ Indoor Client	6XD	EIRP < 24dbm
☐ Standard Client	6FX	EIRP < 30dbm
☐ Dual Client	6CD	Compliance both indoor client and standard client limit

Note:

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

$g_{j,k} = 10^{G_k/20}$ 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.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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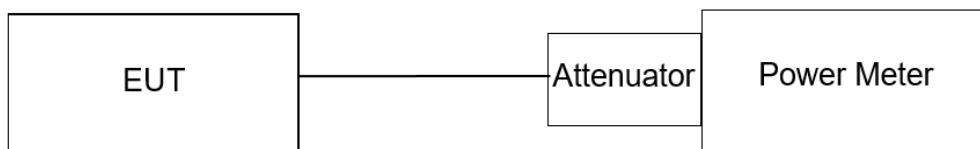
9.2 Measurement Procedure

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 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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	11/06/2020	11/05/2021
Power Sensor	Anritsu	MA2411B	1207365	11/06/2020	11/05/2021
Power Sensor	Anritsu	MA2411B	1207368	11/06/2020	11/05/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	8	12/16/2020	12/15/2021

9.4 Test Set-up



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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11ax_20_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	5.34	-0.32	5.02	24	PASS
		26/0	-2.89	-0.32	-3.21	24	PASS
		52/37	-0.85	-0.32	-1.17	24	PASS
		106/53	2.82	-0.32	2.50	24	PASS
45	6175	full	5.57	-0.32	5.25	24	PASS
93	6415	full	5.36	-0.32	5.04	24	PASS
		26/8	-3.82	-0.32	-4.14	24	PASS
		52/40	-1.37	-0.32	-1.69	24	PASS
		106/54	2.46	-0.32	2.14	24	PASS
97	6435	full	7.56	-3.91	3.65	24	PASS
		26/0	-0.76	-3.91	-4.67	24	PASS
		52/37	1.68	-3.91	-2.23	24	PASS
		106/53	4.84	-3.91	0.93	24	PASS
105	6475	full	7.64	-3.91	3.73	24	PASS
113	6515	full	8.38	-3.91	4.47	24	PASS
		26/8	0.48	-3.91	-3.43	24	PASS
		52/40	2.61	-3.91	-1.30	24	PASS
		106/54	5.39	-3.91	1.48	24	PASS
117	6535	full	8.38	-4	4.38	24	PASS
		26/0	0.32	-4	-3.68	24	PASS
		52/37	2.67	-4	-1.33	24	PASS
		106/53	5.45	-4	1.45	24	PASS
149	6695	full	8.17	-4	4.17	24	PASS
181	6855	full	7.97	-4	3.97	24	PASS
		26/8	0.28	-4	-3.72	24	PASS
		52/40	2.95	-4	-1.05	24	PASS
		106/54	5.24	-4	1.24	24	PASS
185	6875(U-NII 7)	full	5.97	-4	1.97	24	PASS
185	6875(U-NII 8)	full	5.97	-5.1	0.87	24	PASS
189	6895	full	8.97	-5.1	3.87	24	PASS
		26/0	0.09	-5.1	-5.01	24	PASS
		52/37	3.61	-5.1	-1.49	24	PASS
		106/53	6.29	-5.1	1.19	24	PASS
209	6995	full	8.62	-5.1	3.52	24	PASS
233	7115	full	-6.58	-5.1	-11.68	24	PASS
		26/8	-15.89	-5.1	-20.99	24	PASS
		52/40	-12.89	-5.1	-17.99	24	PASS
		106/54	-11.70	-5.1	-16.80	24	PASS

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802.11ax_20_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	4.98	-2.01	2.97	24	PASS
		26/0	-3.12	-2.01	-5.13	24	PASS
		52/37	-0.88	-2.01	-2.89	24	PASS
		106/53	2.74	-2.01	0.73	24	PASS
45	6175	full	5.15	-2.01	3.14	24	PASS
93	6415	full	4.58	-2.01	2.57	24	PASS
		26/8	-1.14	-2.01	-3.15	24	PASS
		52/40	-1.68	-2.01	-3.69	24	PASS
		106/54	1.28	-2.01	-0.73	24	PASS
97	6435	full	6.76	-3.49	3.27	24	PASS
		26/0	-0.82	-3.49	-4.31	24	PASS
		52/37	0.96	-3.49	-2.53	24	PASS
		106/53	4.23	-3.49	0.74	24	PASS
105	6475	full	7.53	-3.49	4.04	24	PASS
113	6515	full	7.51	-3.49	4.02	24	PASS
		26/8	-1.95	-3.49	-5.44	24	PASS
		52/40	1.52	-3.49	-1.97	24	PASS
		106/54	4.54	-3.49	1.05	24	PASS
117	6535	full	7.38	-3.9	3.48	24	PASS
		26/0	-2.14	-3.9	-6.04	24	PASS
		52/37	1.32	-3.9	-2.58	24	PASS
		106/53	4.59	-3.9	0.69	24	PASS
149	6695	full	7.83	-3.9	3.93	24	PASS
181	6855	full	7.76	-3.9	3.86	24	PASS
		26/8	-0.87	-3.9	-4.77	24	PASS
		52/40	2.82	-3.9	-1.08	24	PASS
		106/54	4.95	-3.9	1.05	24	PASS
185	6875(U-NII 7)	full	5.86	-3.9	1.96	24	PASS
185	6875(U-NII 8)	full	5.86	-4.65	1.21	24	PASS
189	6895	full	8.73	-4.65	4.08	24	PASS
		26/0	-0.57	-4.65	-5.22	24	PASS
		52/37	3.48	-4.65	-1.17	24	PASS
		106/53	6.17	-4.65	1.52	24	PASS
209	6995	full	8.49	-4.65	3.84	24	PASS
233	7115	full	-8.20	-4.65	-12.85	24	PASS
		26/8	-17.15	-4.65	-21.80	24	PASS
		52/40	-14.66	-4.65	-19.31	24	PASS
		106/54	-13.22	-4.65	-17.87	24	PASS

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802.11ax_20_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	5.05	4.92	8.00	1.89	9.89	24	PASS
		26/0	-3.04	-3.16	-0.09	1.89	1.80	24	PASS
		52/37	-0.72	-0.82	2.24	1.89	4.13	24	PASS
		106/53	2.83	2.68	5.77	1.89	7.66	24	PASS
45	6175	full	5.26	5.13	8.21	1.89	10.10	24	PASS
93	6415	full	5.31	4.27	7.83	1.89	9.72	24	PASS
		26/8	-3.69	-4.31	-0.98	1.89	0.91	24	PASS
		52/40	-1.18	-1.69	1.58	1.89	3.47	24	PASS
		106/54	2.03	1.73	4.89	1.89	6.78	24	PASS
97	6435	full	7.42	6.84	10.15	-0.69	9.46	24	PASS
		26/0	-0.69	-1.21	2.07	-0.69	1.38	24	PASS
		52/37	1.70	1.42	4.57	-0.69	3.88	24	PASS
		106/53	4.64	4.13	7.40	-0.69	6.71	24	PASS
105	6475	full	7.57	7.35	10.47	-0.69	9.78	24	PASS
113	6515	full	8.38	7.47	10.96	-0.69	10.27	24	PASS
		26/8	1.02	-1.88	2.82	-0.69	2.13	24	PASS
		52/40	2.31	2.05	5.19	-0.69	4.50	24	PASS
		106/54	5.36	4.52	7.97	-0.69	7.28	24	PASS
117	6535	full	8.32	7.34	10.87	-0.94	9.93	24	PASS
		26/0	0.79	-1.84	2.68	-0.94	1.74	24	PASS
		52/37	3.24	1.02	5.28	-0.94	4.34	24	PASS
		106/53	5.51	4.34	7.97	-0.94	7.03	24	PASS
149	6695	full	8.31	7.94	11.14	-0.94	10.20	24	PASS
181	6855	full	8.04	7.73	10.90	-0.94	9.96	24	PASS
		26/8	0.48	-0.94	2.84	-0.94	1.90	24	PASS
		52/40	3.29	3.15	6.23	-0.94	5.29	24	PASS
		106/54	5.54	5.32	8.44	-0.94	7.50	24	PASS
185	6875(U-NII 7)	full	5.77	5.29	8.55	-0.94	7.61	24	PASS
185	6875(U-NII 8)	full	2.76	5.29	7.22	-1.86	5.36	24	PASS
189	6895	full	9.14	8.80	11.98	-1.86	10.12	24	PASS
		26/0	0.69	-0.14	3.31	-1.86	1.45	24	PASS
		52/37	3.82	3.63	6.74	-1.86	4.88	24	PASS
		106/53	6.59	6.22	9.42	-1.86	7.56	24	PASS
209	6995	full	9.26	8.60	11.95	-1.86	10.09	24	PASS
233	7115	full	-6.55	-8.16	-4.27	-1.86	-6.13	24	PASS
		26/8	-15.83	-16.94	-13.34	-1.86	-15.20	24	PASS
		52/40	-12.98	-14.64	-10.72	-1.86	-12.58	24	PASS
		106/54	-11.65	-13.21	-9.35	-1.86	-11.21	24	PASS

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802.11ax_40_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	8.13	-0.32	7.810	24	PASS
		242/61	6.58	-0.32	6.260	24	PASS
43	6165	full	8.78	-0.32	8.460	24	PASS
91	6405	full	8.48	-0.32	8.160	24	PASS
		242/62	5.93	-0.32	5.610	24	PASS
99	6445	full	8.97	-3.91	5.060	24	PASS
		242/61	8.76	-3.91	4.850	24	PASS
107	6485	full	8.59	-3.91	4.680	24	PASS
		242/62	8.20	-3.91	4.290	24	PASS
115	6525(U-NII 6)	full	5.96	-3.91	2.050	24	PASS
115	6525(U-NII 7)	full	5.96	-4	1.960	24	PASS
123	6565	full	8.99	-4	4.990	24	PASS
		242/61	8.89	-4	4.890	24	PASS
147	6685	full	8.76	-4	4.760	24	PASS
179	6845	full	8.89	-4	4.890	24	PASS
		242/62	8.66	-4	4.660	24	PASS
187	6885(U-NII 7)	full	2.60	-4	-1.405	24	PASS
187	6885(U-NII 8)	full	7.72	-5.1	2.615	24	PASS
195	6925	full	8.95	-5.1	3.850	24	PASS
		242/61	8.86	-5.1	3.760	24	PASS
211	7005	full	8.92	-5.1	3.820	24	PASS
227	7085	full	8.77	-5.1	3.670	24	PASS
		242/62	8.91	-5.1	3.810	24	PASS

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802.11ax_40_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	7.44	-2.01	5.43	24	PASS
		242/61	6.42	-2.01	4.41	24	PASS
43	6165	full	7.67	-2.01	5.66	24	PASS
91	6405	full	7.51	-2.01	5.50	24	PASS
		242/62	4.84	-2.01	2.83	24	PASS
99	6445	full	8.24	-3.49	4.75	24	PASS
		242/61	8.06	-3.49	4.57	24	PASS
107	6485	full	8.13	-3.49	4.64	24	PASS
		242/62	8.12	-3.49	4.63	24	PASS
115	6525(U-NII 6)	full	5.22	-3.49	1.73	24	PASS
115	6525(U-NII 7)	full	5.22	-3.9	1.32	24	PASS
123	6565	full	8.26	-3.9	4.36	24	PASS
		242/61	8.23	-3.9	4.33	24	PASS
147	6685	full	8.48	-3.9	4.58	24	PASS
179	6845	full	8.75	-3.9	4.85	24	PASS
		242/62	8.56	-3.9	4.66	24	PASS
187	6885(U-NII 7)	full	2.52	-3.9	-1.38	24	PASS
187	6885(U-NII 8)	full	7.65	-4.65	3.00	24	PASS
195	6925	full	8.68	-4.65	4.03	24	PASS
		242/61	8.31	-4.65	3.66	24	PASS
211	7005	full	8.78	-4.65	4.13	24	PASS
227	7085	full	8.43	-4.65	3.78	24	PASS
		242/62	8.58	-4.65	3.93	24	PASS

802.11ax_40_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	7.90	7.56	10.74	1.89	12.63	24	PASS
		242/61	6.63	6.18	9.42	1.89	11.31	24	PASS
43	6165	full	8.41	7.71	11.08	1.89	12.97	24	PASS
91	6405	full	8.23	7.37	10.83	1.89	12.72	24	PASS
		242/62	5.76	5.16	8.48	1.89	10.37	24	PASS
99	6445	full	8.99	8.38	11.71	-0.69	11.02	24	PASS
		242/61	8.62	8.06	11.36	-0.69	10.67	24	PASS
107	6485	full	8.72	8.48	11.61	-0.69	10.92	24	PASS
		242/62	8.14	7.96	11.06	-0.69	10.37	24	PASS
115	6525(U-NII 6)	full	6.39	5.00	8.76	-0.69	8.07	24	PASS
115	6525(U-NII 7)	full	3.38	5.00	7.27	-0.94	6.33	24	PASS
123	6565	full	9.21	8.11	11.71	-0.94	10.77	24	PASS
		242/61	9.13	8.16	11.68	-0.94	10.74	24	PASS
147	6685	full	8.80	8.57	11.70	-0.94	10.76	24	PASS
179	6845	full	8.93	8.87	11.91	-0.94	10.97	24	PASS
		242/62	8.69	8.61	11.66	-0.94	10.72	24	PASS
187	6885(U-NII 7)	full	2.79	2.58	5.70	-0.94	4.76	24	PASS
187	6885(U-NII 8)	full	1.62	7.71	8.66	-1.86	6.80	24	PASS
195	6925	full	9.17	8.75	11.98	-1.86	10.12	24	PASS
		242/61	8.91	8.37	11.66	-1.86	9.80	24	PASS
211	7005	full	9.08	8.82	11.96	-1.86	10.10	24	PASS
227	7085	full	8.82	8.36	11.61	-1.86	9.75	24	PASS
		242/62	9.02	8.51	11.78	-1.86	9.92	24	PASS

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802.11ax_80_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	8.66	-0.32	8.340	24	PASS
		484/65	8.49	-0.32	8.170	24	PASS
39	6145	full	8.91	-0.32	8.590	24	PASS
87	6385	full	8.95	-0.32	8.630	24	PASS
		484/66	8.61	-0.32	8.290	24	PASS
103	6465	full	8.97	-3.91	5.060	24	PASS
		484/65	8.99	-3.91	5.080	24	PASS
		484/66	8.91	-3.91	5.000	24	PASS
119	6545(U-NII 6)	full	2.81	-3.91	-1.101	24	PASS
119	6545(U-NII 7)	full	7.78	-4	3.780	24	PASS
135	6625	full	8.56	-4	4.560	24	PASS
		484/65	8.77	-4	4.770	24	PASS
151	6705	full	8.89	-4	4.890	24	PASS
167	6785	full	8.73	-4	4.730	24	PASS
		484/66	8.89	-4	4.890	24	PASS
183	6865	full	8.77	-4	4.770	24	PASS
183	6865(U-NII 7)	full	6.76	-4	2.761	24	PASS
183	6865(U-NII 8)	full	4.46	-5.1	-0.644	24	PASS
199	6945	full	8.82	-5.1	3.720	24	PASS
		484/65	8.79	-5.1	3.690	24	PASS
215	7025	full	8.68	-5.1	3.580	24	PASS
		484/66	8.75	-5.1	3.650	24	PASS

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802.11ax_80_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	8.68	-2.01	6.67	24	PASS
		484/65	8.64	-2.01	6.63	24	PASS
39	6145	full	8.33	-2.01	6.32	24	PASS
87	6385	full	8.67	-2.01	6.66	24	PASS
		484/66	8.03	-2.01	6.02	24	PASS
103	6465	full	8.51	-3.49	5.02	24	PASS
		484/65	8.49	-3.49	5.00	24	PASS
		484/66	8.65	-3.49	5.16	24	PASS
119	6545(U-NII 6)	full	1.88	-3.49	-1.61	24	PASS
119	6545(U-NII 7)	full	6.86	-3.9	2.96	24	PASS
135	6625	full	8.53	-3.9	4.63	24	PASS
		484/65	8.74	-3.9	4.84	24	PASS
151	6705	full	8.58	-3.9	4.68	24	PASS
167	6785	full	8.43	-3.9	4.53	24	PASS
		484/66	8.48	-3.9	4.58	24	PASS
183	6865	full	8.26	-3.9	4.36	24	PASS
183	6865(U-NII 7)	full	6.25	-3.9	2.35	24	PASS
183	6865(U-NII 8)	full	3.95	-4.65	-0.70	24	PASS
199	6945	full	8.21	-4.65	3.56	24	PASS
		484/65	8.46	-4.65	3.81	24	PASS
215	7025	full	8.59	-4.65	3.94	24	PASS
		484/66	8.67	-4.65	4.02	24	PASS

802.11ax_80_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	8.69	8.63	11.67	1.89	13.56	24	PASS
		484/65	8.54	8.78	11.67	1.89	13.56	24	PASS
39	6145	full	8.99	8.26	11.65	1.89	13.54	24	PASS
87	6385	full	9.04	8.71	11.89	1.89	13.78	24	PASS
		484/66	8.55	7.78	11.19	1.89	13.08	24	PASS
103	6465	full	9.11	8.55	11.85	-0.69	11.16	24	PASS
		484/65	9.37	8.53	11.98	-0.69	11.29	24	PASS
		484/66	9.04	8.71	11.89	-0.69	11.20	24	PASS
119	6545(U-NII 6)	full	3.22	1.93	5.63	-0.69	4.94	24	PASS
119	6545(U-NII 7)	full	2.02	6.91	8.13	-0.94	7.19	24	PASS
135	6625	full	8.61	8.56	11.60	-0.94	10.66	24	PASS
		484/65	8.82	8.78	11.81	-0.94	10.87	24	PASS
151	6705	full	8.94	8.64	11.80	-0.94	10.86	24	PASS
167	6785	full	8.78	8.45	11.63	-0.94	10.69	24	PASS
		484/66	8.95	8.57	11.77	-0.94	10.83	24	PASS
183	6865	full	8.82	8.29	11.57	-0.94	10.63	24	PASS
183	6865(U-NII 7)	full	6.81	6.28	9.56	-0.94	8.62	24	PASS
183	6865(U-NII 8)	full	2.50	3.98	6.31	-1.86	4.45	24	PASS
199	6945	full	8.89	8.31	11.62	-1.86	9.76	24	PASS
		484/65	8.89	8.50	11.71	-1.86	9.85	24	PASS
215	7025	full	8.73	8.68	11.72	-1.86	9.86	24	PASS
		484/66	8.84	8.73	11.80	-1.86	9.94	24	PASS

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802.11ax_160_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
15	6025	full	8.91	-0.32	8.590	24	PASS
		996/67	8.86	-0.32	8.540	24	PASS
47	6185	full	8.84	-0.32	8.520	24	PASS
		996/S67	8.73	-0.32	8.410	24	PASS
79	6345	full	8.73	-0.32	8.410	24	PASS
		996/S67	8.68	-0.32	8.360	24	PASS
111	6505(U-NII 6)	full	6.91	-3.91	2.997	24	PASS
111	6505(U-NII 7)	full	4.64	-4	0.639	24	PASS
143	6665	full	8.82	-4	4.820	24	PASS
		996/67	8.68	-4	4.680	24	PASS
		996/S67	8.59	-4	4.590	24	PASS
175	6825	full	8.73	-4	4.730	24	PASS
175	6825(U-NII 7)	full	7.87	-4	3.867	24	PASS
175	6825(U-NII 8)	full	1.29	-5.1	-3.811	24	PASS
207	6985	full	8.88	-5.1	3.780	24	PASS
		996/67	8.86	-5.1	3.760	24	PASS
		996/S67	8.78	-5.1	3.680	24	PASS

802.11ax_160_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
15	6025	full	8.74	-2.01	6.73	24	PASS
		996/67	8.31	-2.01	6.30	24	PASS
47	6185	full	8.68	-2.01	6.67	24	PASS
79	6345	full	8.62	-2.01	6.61	24	PASS
		996/S67	8.38	-2.01	6.37	24	PASS
111	6505(U-NII 6)	full	6.50	-3.49	3.01	24	PASS
111	6505(U-NII 7)	full	4.23	-3.9	0.33	24	PASS
143	6665	full	8.65	-3.9	4.75	24	PASS
		996/67	8.59	-3.9	4.69	24	PASS
		996/S67	8.34	-3.9	4.44	24	PASS
175	6825	full	8.61	-3.9	4.71	24	PASS
175	6825(U-NII 7)	full	7.75	-3.9	3.85	24	PASS
175	6825(U-NII 8)	full	1.17	-4.65	-3.48	24	PASS
207	6985	full	8.36	-4.65	3.71	24	PASS
		996/67	8.31	-4.65	3.66	24	PASS
		996/S67	8.21	-4.65	3.56	24	PASS

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802.11ax_160_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	9.11	8.72	11.93	1.89	13.82	24	PASS
		996/67	8.91	8.25	11.60	1.89	13.49	24	PASS
47	6185	full	9.04	8.71	11.89	1.89	13.78	24	PASS
79	6345	full	8.78	8.57	11.69	1.89	13.58	24	PASS
		996/567	8.70	8.41	11.57	1.89	13.46	24	PASS
111	6505(U-NII 6)	full	7.38	6.46	9.95	-0.69	9.26	24	PASS
111	6505(U-NII 7)	full	3.09	4.19	6.69	-0.94	5.75	24	PASS
		full	8.86	8.69	11.79	-0.94	10.85	24	PASS
		996/67	8.72	8.62	11.68	-0.94	10.74	24	PASS
		996/567	8.61	8.40	11.52	-0.94	10.58	24	PASS
175	6825	full	8.78	8.58	11.69	-0.94	10.75	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. In addition, 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 power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, 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 power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band, and 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 power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and 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 power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and 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	Limit
☐ 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
☒ Indoor Client	6XD	EIRP < -1dbm/MHz
☐ Standard Client	6FX	EIRP < 17dbm/MHz
☐ Dual Client	6CD	Compliance both indoor client and standard client limits

Note:

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

$g_{j,k}$ = 1/20 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.

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10.2 Measurement Procedure

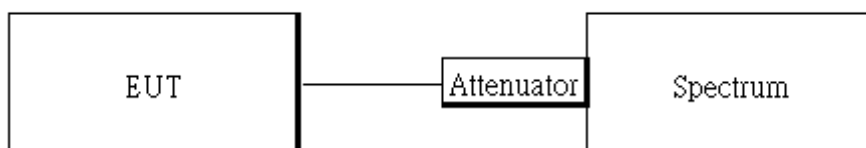
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
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 antenna.

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.

10.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/27/2020	06/26/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

10.4 Test Set-up



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10.5 Measurement Result

10.5.1 Power spectral density

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	-6.642	-6.289	0.00	-3.45	1.89	-1.56	-1.00	-0.56
	26/0	-6.054	-6.609	0.00	-3.31	1.89	-1.42	-1.00	-0.42
	52/37	-6.917	-6.666	0.00	-3.78	1.89	-1.89	-1.00	-0.89
	106/53	-6.304	-6.162	0.00	-3.22	1.89	-1.33	-1.00	-0.33
6175	full	-6.070	-6.710	0.00	-3.37	1.89	-1.48	-1.00	-0.48
6415	full	-6.931	-5.958	0.00	-3.41	1.89	-1.52	-1.00	-0.52
	26/8	-6.552	-7.031	0.00	-3.77	1.89	-1.88	-1.00	-0.88
	52/40	-6.594	-6.892	0.00	-3.73	1.89	-1.84	-1.00	-0.84
	106/54	-7.356	-5.716	0.00	-3.45	1.89	-1.56	-1.00	-0.56
6435	full	-4.270	-3.676	0.00	-0.95	-0.69	-1.64	-1.00	-0.64
	26/0	-3.354	-3.731	0.00	-0.53	-0.69	-1.22	-1.00	-0.22
	52/37	-4.344	-3.907	0.00	-1.11	-0.69	-1.80	-1.00	-0.80
	106/53	-4.226	-3.978	0.00	-1.09	-0.69	-1.78	-1.00	-0.78
6475	full	-3.647	-3.472	0.00	-0.55	-0.69	-1.24	-1.00	-0.24
6515	full	-3.177	-4.032	0.00	-0.57	-0.69	-1.26	-1.00	-0.26
	26/8	-2.460	-4.812	0.00	-0.47	-0.69	-1.16	-1.00	-0.16
	52/40	-4.158	-4.267	0.00	-1.20	-0.69	-1.89	-1.00	-0.89
	106/54	-3.521	-4.269	0.00	-0.87	-0.69	-1.56	-1.00	-0.56
6535	full	-2.768	-4.046	0.00	-0.35	-0.94	-1.29	-1.00	-0.29
	26/0	-2.334	-4.718	0.00	-0.35	-0.94	-1.29	-1.00	-0.29
	52/37	-3.038	-5.048	0.00	-0.92	-0.94	-1.86	-1.00	-0.86
	106/53	-3.118	-4.543	0.00	-0.76	-0.94	-1.70	-1.00	-0.70
6695	full	-3.422	-3.416	0.00	-0.41	-0.94	-1.35	-1.00	-0.35
6855	full	-3.489	-4.063	0.00	-0.76	-0.94	-1.70	-1.00	-0.70
	26/8	-2.979	-4.618	0.00	-0.71	-0.94	-1.65	-1.00	-0.65
	52/40	-3.656	-2.866	0.00	-0.23	-0.94	-1.17	-1.00	-0.17
	106/54	-4.046	-3.651	0.00	-0.83	-0.94	-1.77	-1.00	-0.77
6875(U-NII 7)	full	-5.335	-6.064	0.00	-2.67	-0.94	-3.61	-1.00	-2.61
6875(U-NII 8)	full	-5.335	-6.064	0.00	-2.67	-1.86	-4.53	-1.00	-3.53
6895	full	-2.983	-2.382	0.00	0.34	-1.86	-1.52	-1.00	-0.52
	26/0	-2.659	-3.466	0.00	-0.03	-1.86	-1.89	-1.00	-0.89
	52/37	-3.003	-2.773	0.00	0.12	-1.86	-1.74	-1.00	-0.74
	106/53	-2.795	-2.207	0.00	0.52	-1.86	-1.34	-1.00	-0.34
6995	full	-2.811	-2.500	0.00	0.36	-1.86	-1.50	-1.00	-0.50
7115	full	-18.114	-20.005	0.00	-15.95	-1.86	-17.81	-1.00	-16.81
	26/8	-19.229	-21.157	0.00	-17.08	-1.86	-18.94	-1.00	-17.94
	52/40	-18.552	-20.572	0.00	-16.44	-1.86	-18.30	-1.00	-17.30
	106/54	-20.038	-21.871	0.00	-17.85	-1.86	-19.71	-1.00	-18.71

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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	-6.836	-6.664	0.00	-3.74	1.89	-1.85	-1.00	-0.85
	242/61	-6.176	-6.117	0.00	-3.14	1.89	-1.25	-1.00	-0.25
6165	full	-6.206	-6.253	0.00	-3.22	1.89	-1.33	-1.00	-0.33
6405	full	-6.472	-5.912	0.00	-3.17	1.89	-1.28	-1.00	-0.28
	242/62	-7.118	-6.016	0.00	-3.52	1.89	-1.63	-1.00	-0.63
6445	full	-4.549	-4.347	0.00	-1.44	-0.69	-2.13	-1.00	-1.13
	242/61	-3.690	-3.200	0.00	-0.43	-0.69	-1.12	-1.00	-0.12
6485	full	-5.051	-5.110	0.00	-2.07	-0.69	-2.76	-1.00	-1.76
	242/62	-4.171	-4.387	0.00	-1.27	-0.69	-1.96	-1.00	-0.96
6525(U-NII 6)	full	-7.751	-9.238	0.00	-5.42	-0.69	-6.11	-1.00	-5.11
6525(U-NII 7)	full	-7.751	-9.238	0.00	-5.42	-0.94	-6.36	-1.00	-5.36
6565	full	-4.823	-5.941	0.00	-2.34	-0.94	-3.28	-1.00	-2.28
	242/61	-3.057	-3.679	0.00	-0.35	-0.94	-1.29	-1.00	-0.29
6685	full	-5.579	-5.763	0.00	-2.66	-0.94	-3.60	-1.00	-2.60
6845	full	-5.146	-5.471	0.00	-2.30	-0.94	-3.24	-1.00	-2.24
	242/62	-3.690	-3.171	0.00	-0.41	-0.94	-1.35	-1.00	-0.35
6885(U-NII 7)	full	-10.878	-11.908	0.00	-8.35	-0.94	-9.29	-1.00	-8.29
6885(U-NII 8)	full	-5.758	-6.786	0.00	-3.23	-1.86	-5.09	-1.00	-4.09
6925	full	-5.454	-4.975	0.00	-2.20	-1.86	-4.06	-1.00	-3.06
	242/61	-3.441	-3.514	0.00	-0.47	-1.86	-2.33	-1.00	-1.33
7005	full	-5.021	-5.174	0.00	-2.09	-1.86	-3.95	-1.00	-2.95
7085	full	-5.372	-5.321	0.00	-2.34	-1.86	-4.20	-1.00	-3.20
	242/62	-2.855	-2.535	0.00	0.32	-1.86	-1.54	-1.00	-0.54

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	-8.521	-8.247	0.00	-5.37	1.89	-3.48	-1.00	-2.48
	484/65	-6.582	-6.400	0.00	-3.48	1.89	-1.59	-1.00	-0.59
6145	full	-9.039	-8.117	0.00	-5.54	1.89	-3.65	-1.00	-2.65
6385	full	-7.156	-7.495	0.00	-4.31	1.89	-2.42	-1.00	-1.42
	484/66	-6.555	-7.145	0.00	-3.83	1.89	-1.94	-1.00	-0.94
6465	full	-7.798	-7.274	0.00	-4.52	-0.69	-5.21	-1.00	-4.21
	484/65	-4.905	-4.035	0.00	-1.44	-0.69	-2.13	-1.00	-1.13
	484/66	-5.143	-4.652	0.00	-1.88	-0.69	-2.57	-1.00	-1.57
6545(U-NII 6)	full	-13.843	-15.533	0.00	-11.60	-0.69	-12.29	-1.00	-11.29
6545(U-NII 7)	full	-8.872	-10.557	0.00	-6.62	-0.94	-7.56	-1.00	-6.56
6625	full	-8.592	-9.022	0.00	-5.79	-0.94	-6.73	-1.00	-5.73
	484/65	-5.281	-6.006	0.00	-2.62	-0.94	-3.56	-1.00	-2.56
6705	full	-8.639	-8.321	0.00	-5.47	-0.94	-6.41	-1.00	-5.41
6785	full	-8.634	-8.331	0.00	-5.47	-0.94	-6.41	-1.00	-5.41
	484/66	-5.935	-5.952	0.00	-2.93	-0.94	-3.87	-1.00	-2.87
6865(U-NII 7)	full	-10.949	-10.696	0.00	-7.81	-0.94	-8.75	-1.00	-7.75
6865(U-NII 8)	full	-13.254	-12.997	0.00	-10.11	-1.86	-11.97	-1.00	-10.97
6945	full	-8.600	-8.630	0.00	-5.60	-1.86	-7.46	-1.00	-6.46
	484/65	-5.853	-5.672	0.00	-2.75	-1.86	-4.61	-1.00	-3.61
7025	full	-8.048	-8.139	0.00	-5.08	-1.86	-6.94	-1.00	-5.94
	484/66	-5.565	-5.620	0.00	-2.58	-1.86	-4.44	-1.00	-3.44

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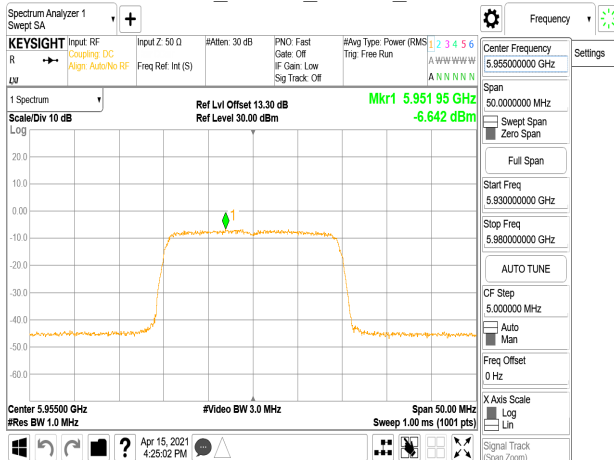
POWER DENSITY 802.11ax HE160 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0 meas	ch1 meas						
6025	full	-10.911	-11.345	0.00	-8.11	1.89	-6.22	-1.00	-5.22
	996/67	-8.237	-8.969	0.00	-5.58	1.89	-3.69	-1.00	-2.69
6185	full	-11.349	-10.926	0.00	-8.12	1.89	-6.23	-1.00	-5.23
6345	full	-10.903	-10.698	0.00	-7.79	1.89	-5.90	-1.00	-4.90
	996/S67	-8.251	-9.080	0.00	-5.64	1.89	-3.75	-1.00	-2.75
6505(U-NII 6)	full	-12.235	-13.165	0.00	-9.66	-0.69	-10.35	-1.00	-9.35
6505(U-NII 7)	full	-14.503	-15.427	0.00	-11.93	-0.94	-12.87	-1.00	-11.87
6665	full	-11.561	-11.662	0.00	-8.60	-0.94	-9.54	-1.00	-8.54
	996/67	-8.600	-9.020	0.00	-5.79	-0.94	-6.73	-1.00	-5.73
	996/S67	-8.590	-8.876	0.00	-5.72	-0.94	-6.66	-1.00	-5.66
6825(U-NII 7)	full	-12.258	-12.722	0.00	-9.47	-0.94	-10.41	-1.00	-9.41
6825(U-NII 8)	full	-18.836	-19.301	0.00	-16.05	-1.86	-17.91	-1.00	-16.91
6985	full	-11.452	-11.356	0.00	-8.39	-1.86	-10.25	-1.00	-9.25
	996/67	-9.275	-8.723	0.00	-5.98	-1.86	-7.84	-1.00	-6.84
	996/S67	-9.700	-8.867	0.00	-6.25	-1.86	-8.11	-1.00	-7.11

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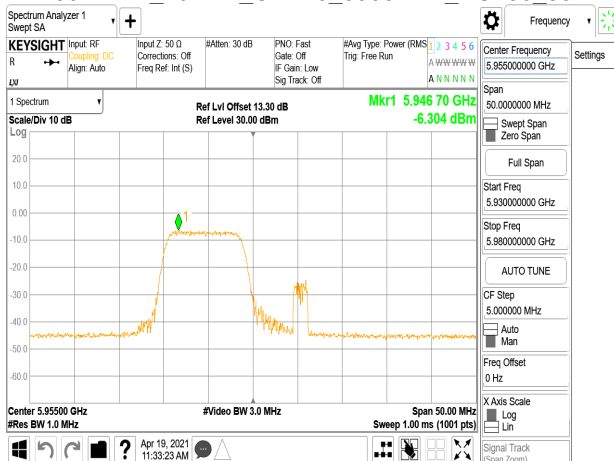
802.11ax_20MHz_Chain0_5955MHz



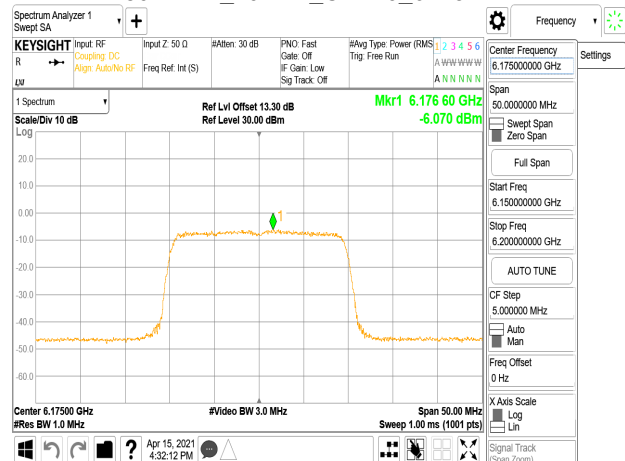
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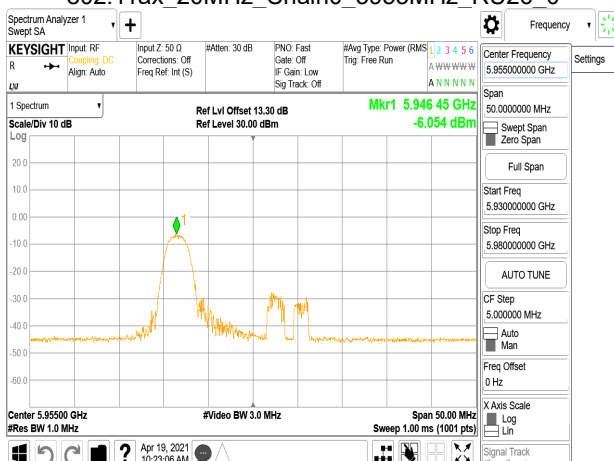
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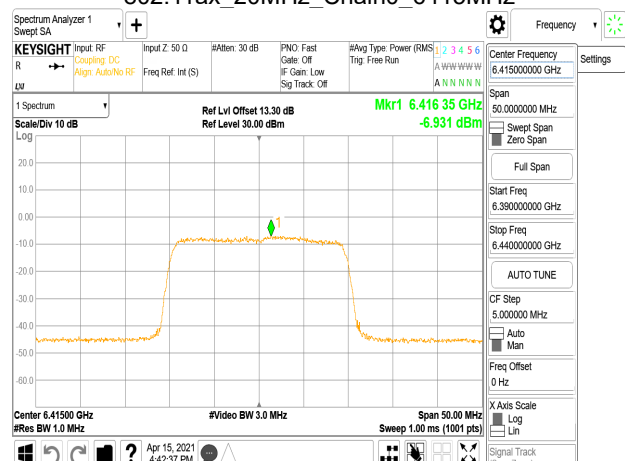
802.11ax_20MHz_Chain0_6175MHz



802.11ax_20MHz_Chain0_5955MHz_RU26_0



802.11ax_20MHz_Chain0_6415MHz

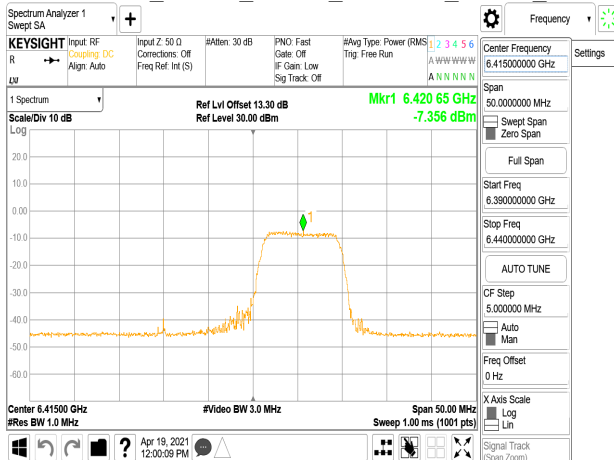


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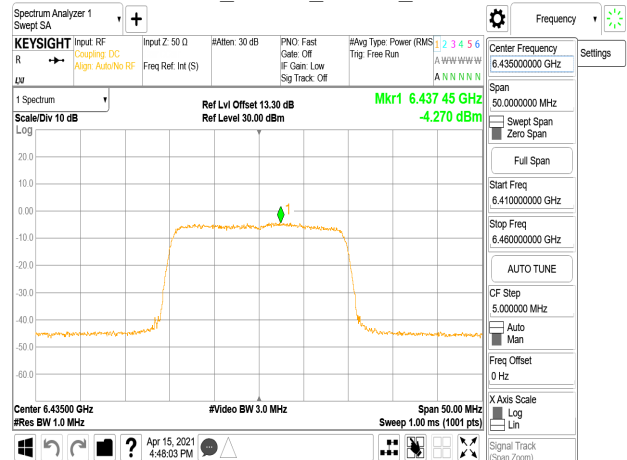
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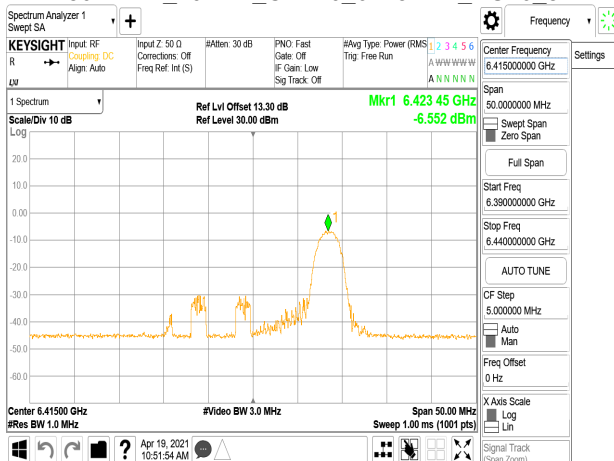
802.11ax_20MHz_Chain0_6415MHz_RU106_54



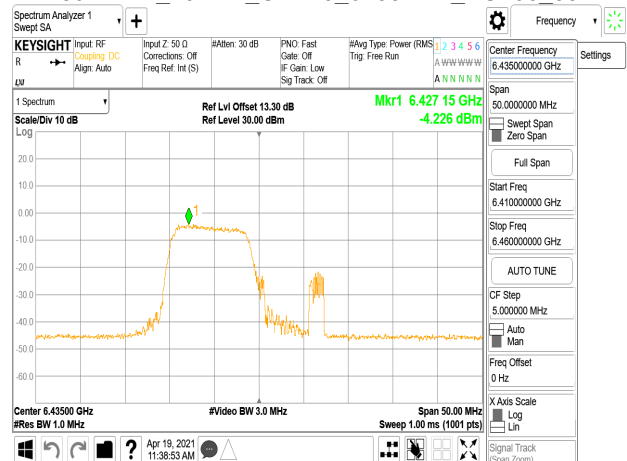
802.11ax_20MHz_Chain0_6435MHz



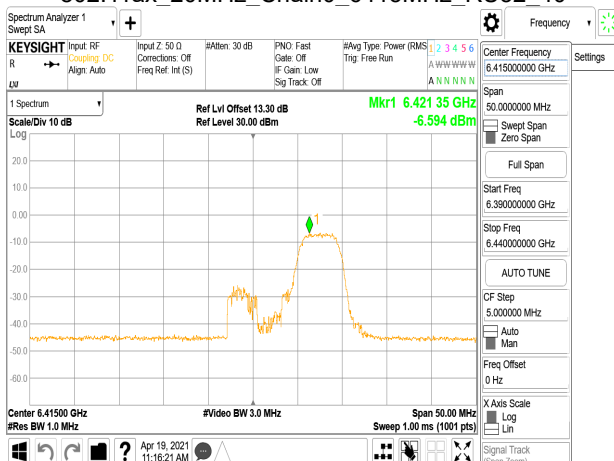
802.11ax_20MHz_Chain0_6415MHz_RU26_8



802.11ax_20MHz_Chain0_6435MHz_RU106_53



802.11ax_20MHz_Chain0_6415MHz_RU52_40



802.11ax_20MHz_Chain0_6435MHz_RU26_0

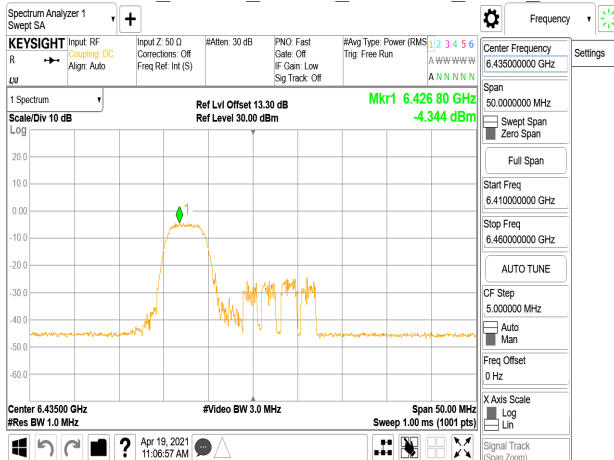


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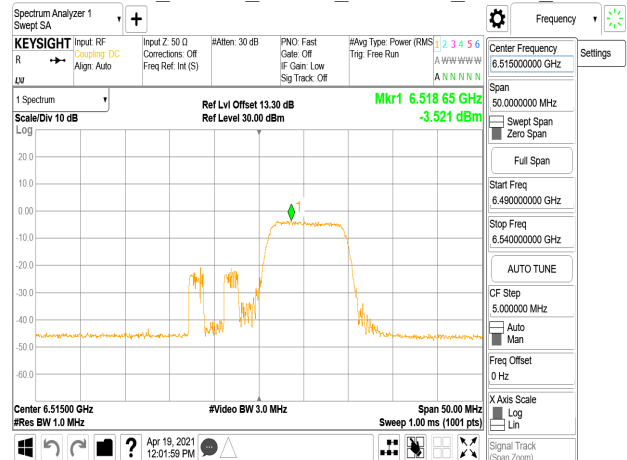
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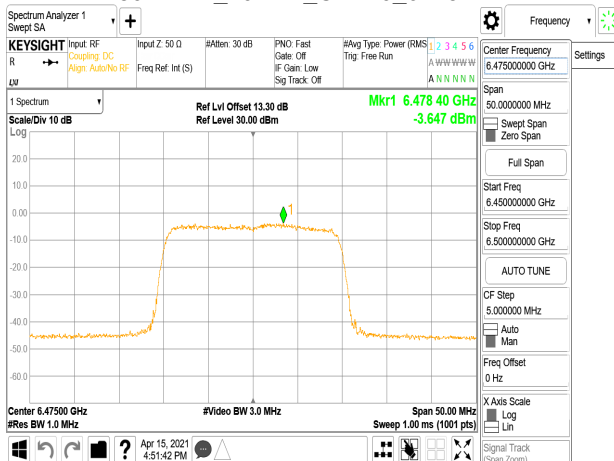
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802.11ax_20MHz_Chain0_6515MHz_RU106_54



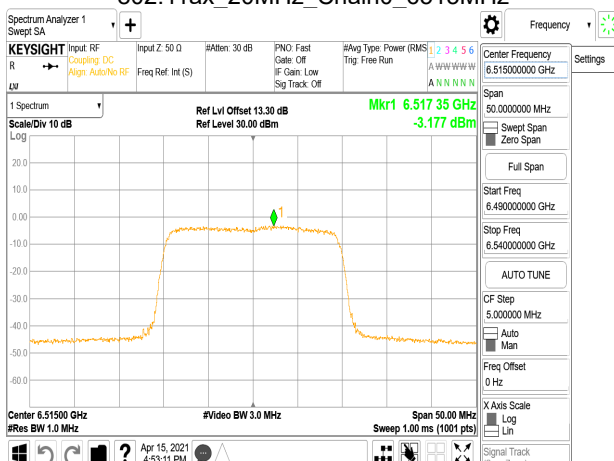
802.11ax_20MHz_Chain0_6475MHz



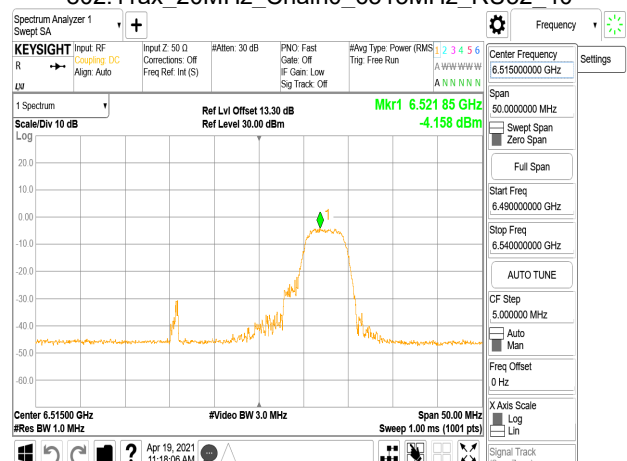
802.11ax_20MHz_Chain0_6515MHz_RU26_8



802.11ax_20MHz_Chain0_6515MHz



802.11ax_20MHz_Chain0_6515MHz_RU52_40

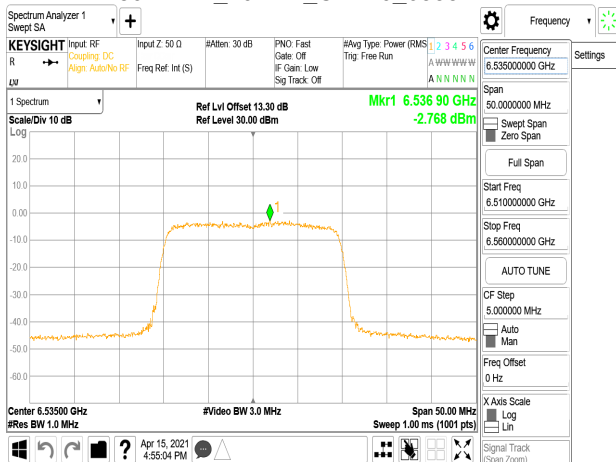


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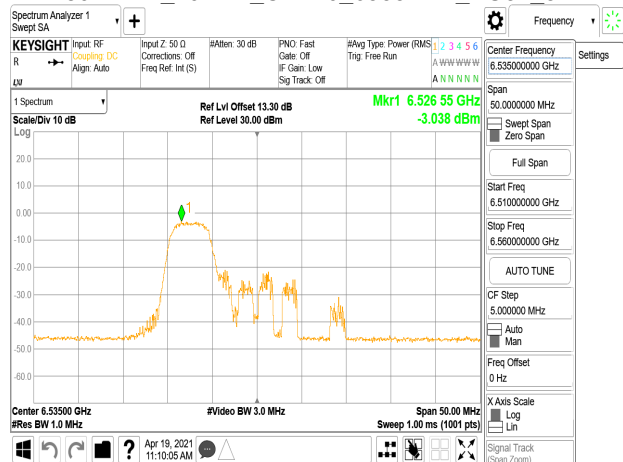
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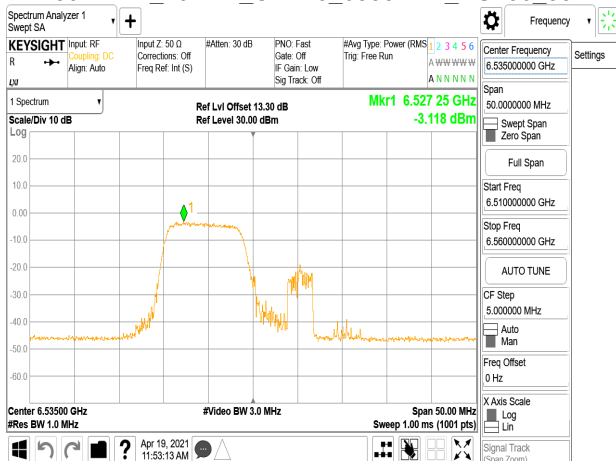
802.11ax_20MHz_Chain0_6535MHz



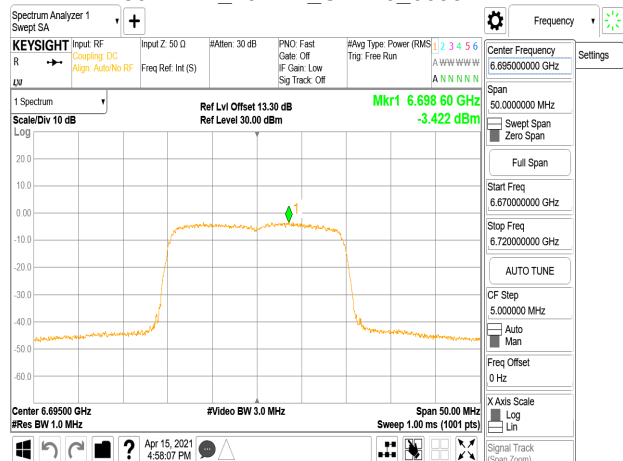
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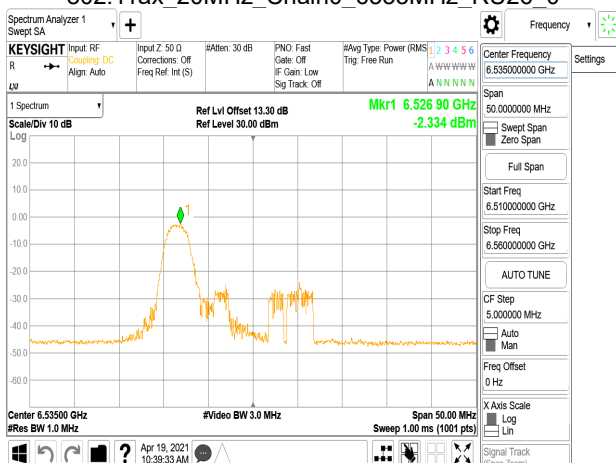
802.11ax_20MHz_Chain0_6535MHz_RU106_53



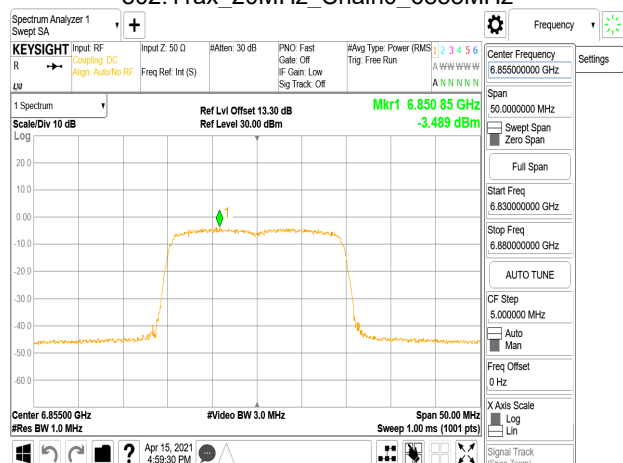
802.11ax_20MHz_Chain0_6695MHz



802.11ax_20MHz_Chain0_6535MHz_RU26_0



802.11ax_20MHz_Chain0_6855MHz

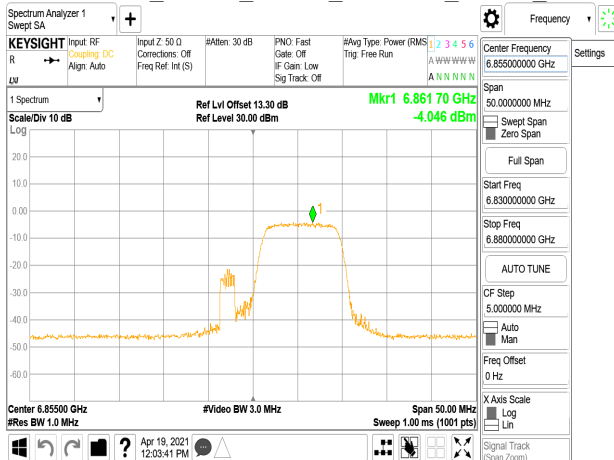


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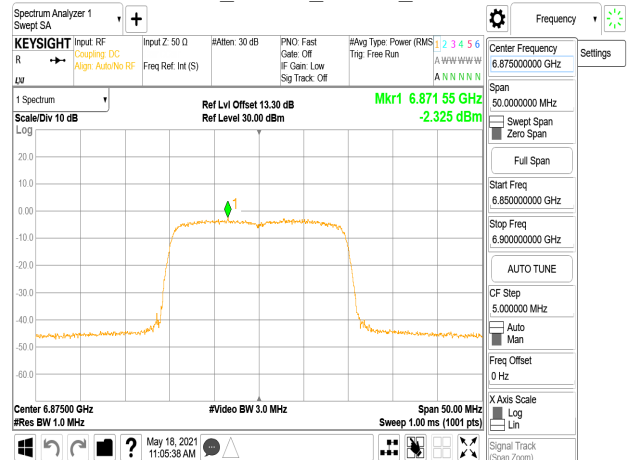
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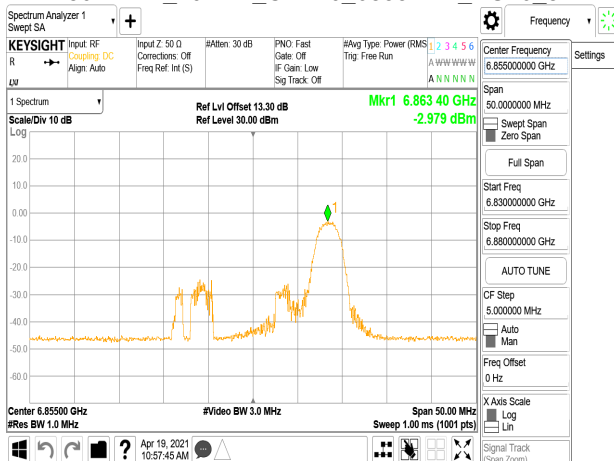
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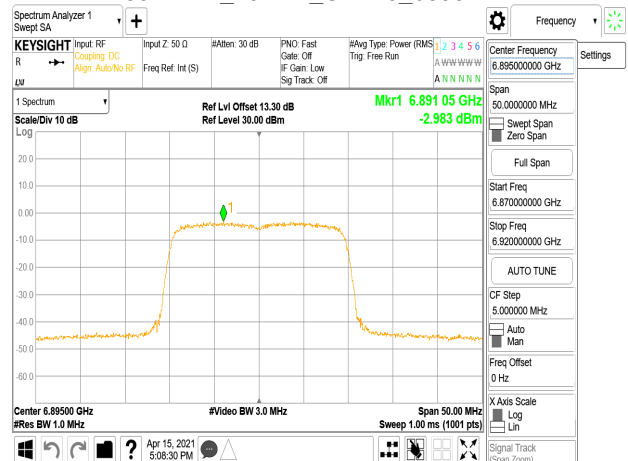
802.11ax_20MHz_Chain0_6875MHz



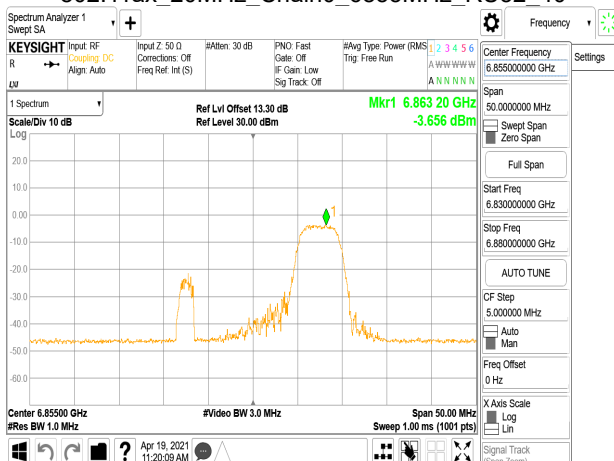
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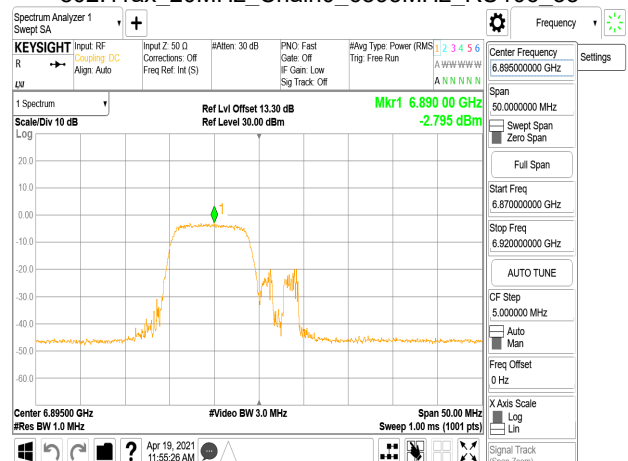
802.11ax_20MHz_Chain0_6895MHz



802.11ax_20MHz_Chain0_6855MHz_RU52_40



802.11ax_20MHz_Chain0_6895MHz_RU106_53

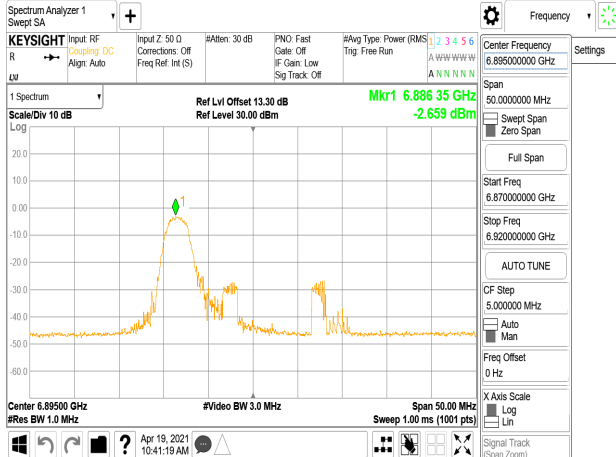


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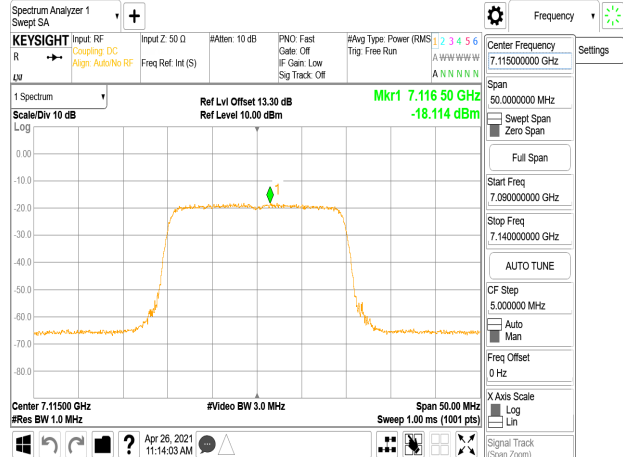
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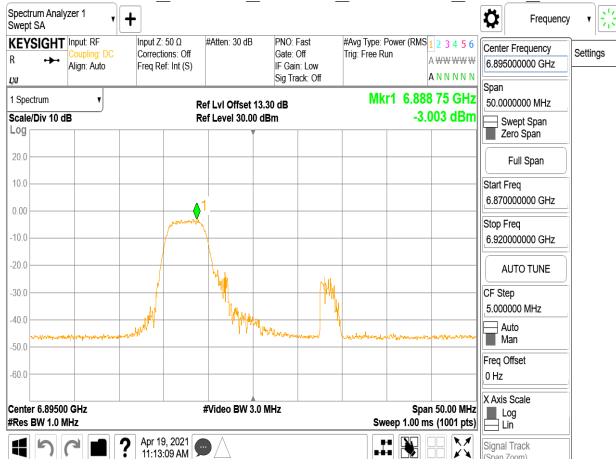
802.11ax_20MHz_Chain0_6895MHz_RU26_0



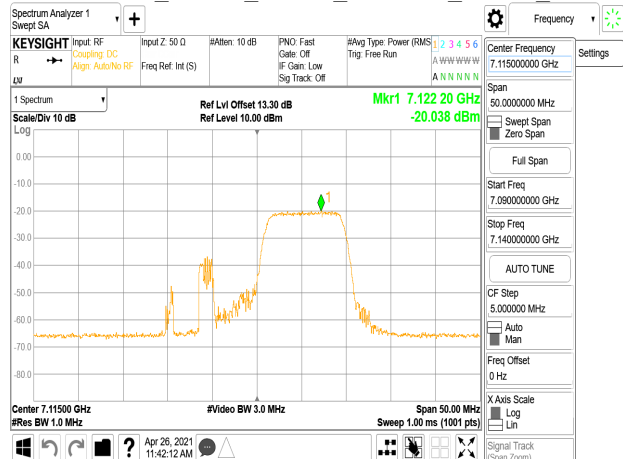
802.11ax_20MHz_Chain0_7115MHz



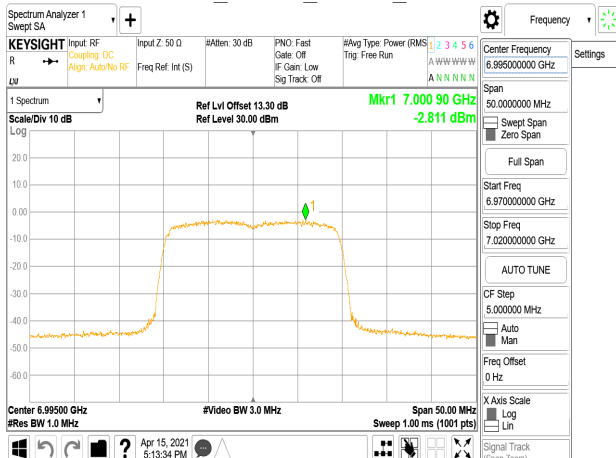
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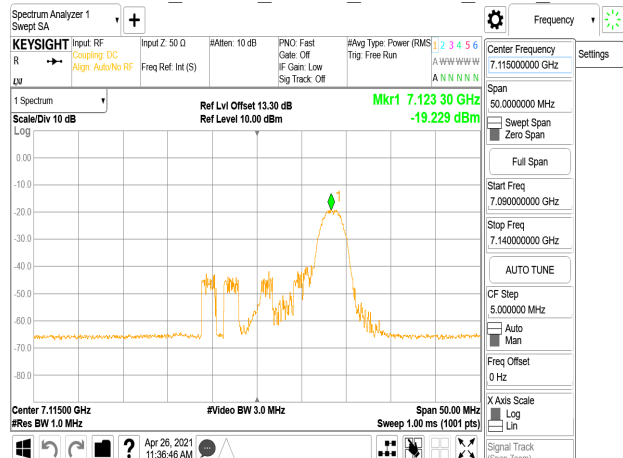
802.11ax_20MHz_Chain0_7115MHz_RU106_54



802.11ax_20MHz_Chain0_6995MHz



802.11ax_20MHz_Chain0_7115MHz_RU26_8



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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