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A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Date	2022/10/31 ~ 11/02	Temp./Hum.	22 ~ 23℃/66 ~ 68%
Cable Loss	1.50dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Power Spectral Density Result

- OFDM Modulation

Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) Note3	Total Power Spectral Density (dBm/1MHz) Note2	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE20	5	5955	-10.402	-10.967	N/A	2.90	-4.765	-1
		6175	-10.557	-10.985		1.06	-6.695	
		6415	-10.530	-10.985		1.06	-6.681	
	6	6435	-10.604	-11.054		1.06	-6.753	
		6475	-10.397	-11.181		1.06	-6.701	
		6515	-10.089	-11.101		1.06	-6.495	
	7	6535	-11.097	-12.018		1.06	-7.463	
		6695	-11.370	-11.656		1.73	-6.770	
		6855	-11.449	-11.848		1.73	-6.904	
	8	6875	-11.338	-11.951		1.73	-6.893	
		6995	-11.613	-11.969		-0.67	-9.447	
		7115	-14.812	-14.536		-0.67	-12.332	
802.11ax-HE40	5	5965	-9.485	-9.962	N/A	2.90	-3.807	
		6165	-10.373	-10.581		2.90	-4.565	
		6405	-10.189	-10.433		1.06	-6.239	
	6	6445	-10.329	-10.486		1.06	-6.336	
		6485	-10.177	-10.571		1.06	-6.299	
	7	6525	-10.159	-10.666		1.06	-6.335	
		6685	-10.665	-11.298		1.73	-6.230	
		6845	-10.956	-11.270		1.73	-6.370	
	8	6885	-10.990	-10.919		1.73	-6.214	
		7005	-10.884	-11.168		-0.67	-8.683	
		7085	-10.359	-10.618		-0.67	-8.146	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then
Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + … + $10^{GN/10}$)/N_{ANT}] dBi
Directional gain:
5925MHz: Directional gain = 10 log[($10^{2.9/10}$ +$10^{2.9/10}$)/2]= 2.90dBi
6425MHz: Directional gain = 10 log[($10^{0.7/10}$ +$10^{1.4/10}$)/2]= 1.06dBi
6825MHz: Directional gain =10 log[($10^{0.3/10}$ +$10^{2.8/10}$)/2]= 1.73dBi
7125MHz: Directional gain = 10 log[($10^{-3.4/10}$ +$10^{1.0/10}$)/2]= -0.67dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

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Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) Note3	Total Power Spectral Density (dBm/1MHz) Note2	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE80	5	5985	-9.477	-9.766	N/A	2.90	-3.709	-1
		6145	-9.692	-10.041		2.90	-3.953	
		6385	-9.768	-9.746		1.06	-5.687	
	6	6465	-9.592	-9.889		1.06	-5.668	
		6545	-9.681	-10.046		1.06	-5.789	
	7	6625	-10.551	-10.638		1.73	-5.854	
		6705	-10.499	-10.580		1.73	-5.799	
		6785	-10.465	-10.906		1.73	-5.940	
	8	6865	-10.696	-11.089		1.73	-6.148	
		6945	-10.758	-11.059		1.73	-6.166	
		7025	-10.452	-10.865		-0.67	-8.313	
802.11ax-HE160	5	6025	-9.311	-9.736	N/A	2.90	-3.608	
		6185	-9.205	-9.499		1.06	-5.279	
		6345	-9.285	-9.405		1.06	-5.274	
	6	6505	-9.001	-9.466		1.06	-5.157	
	7	6665	-9.893	-10.317		1.73	-5.360	
		6825	-10.174	-10.573		1.73	-5.629	
	8	6985	-10.216	-10.314		-0.67	-7.924	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]
2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.
3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then
Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + … + $10^{GN/10}$)/N_{ANT}] dBi
Directional gain:
5925MHz: Directional gain = 10 log[($10^{2.9/10}$ +$10^{2.9/10}$)/2]= 2.90dBi
6425MHz: Directional gain = 10 log[($10^{0.7/10}$ +$10^{1.4/10}$)/2]= 1.06dBi
6825MHz: Directional gain =10 log[($10^{0.3/10}$ +$10^{2.8/10}$)/2]= 1.73dBi
7125MHz: Directional gain = 10 log[($10^{-3.4/10}$ +$10^{1.0/10}$)/2]= -0.67dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

- OFDMA Modulation

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) Note3	Total Power Spectral Density (dBm/1MHz) Note2	Limit (dBm/MHz)
					AUX	Main				
26T	18	802.11ax-HE80	5	5985	-10.667	-10.487	0.132	2.90	-4.534	-1
52T	44	802.11ax-HE80	5	5985	-9.060	-9.506	0.119	2.90	-3.248	
106T	56	802.11ax-HE80	5	5985	-8.794	-9.321	N/A	2.90	-3.139	
242T	62	802.11ax-HE80	5	5985	-9.644	-10.576	0.123	2.90	-4.052	
484T	65	802.11ax-HE40	5	5965	-9.409	-10.121	N/A	2.90	-3.840	
996T	67	802.11ax-HE160	5	6025	-9.131	-9.688	0.132	2.90	-3.358	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]
2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.
3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then
Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + … + $10^{GN/10}$)/N_{ANT}] dBi
Directional gain:
5925MHz: Directional gain = 10 log[($10^{2.9/10}$ +$10^{2.9/10}$)/2]= 2.90dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

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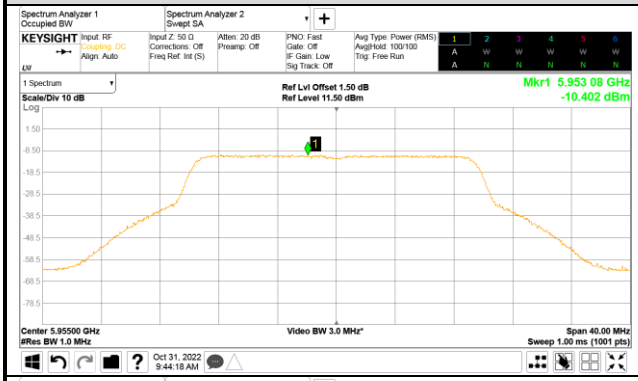
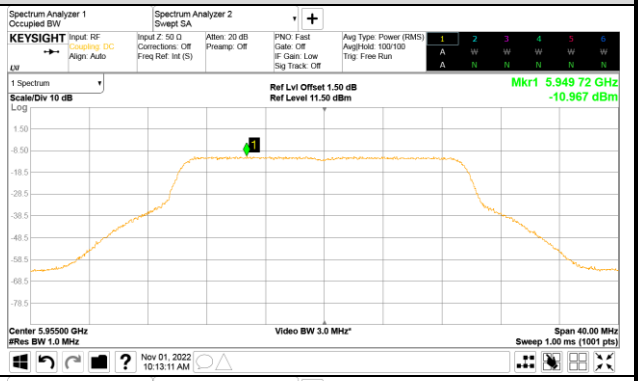
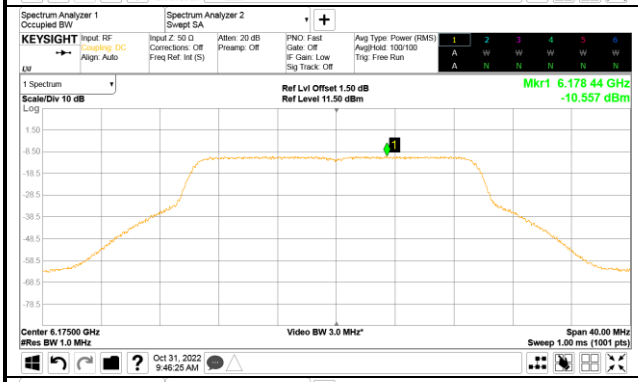
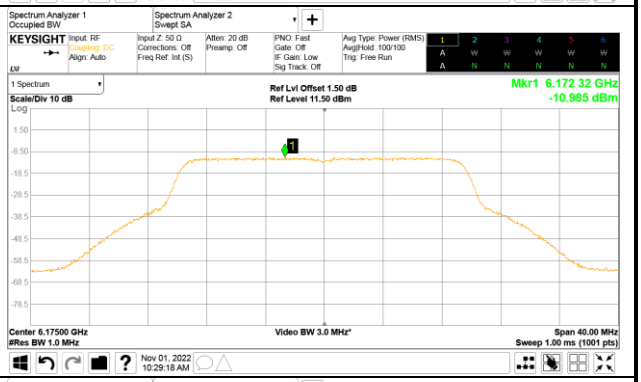
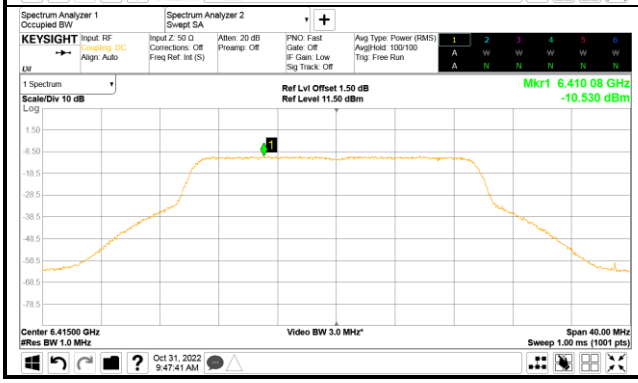
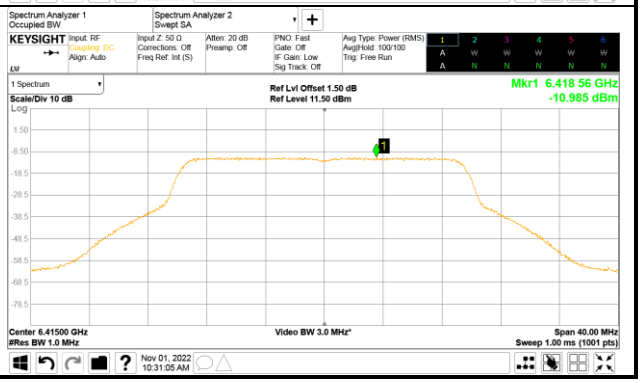
A.3.2 Measurement Plots

- OFDM Modulation

Mode: 802.11ax-HE20	
AUX	Main
U-NII Band 5	U-NII Band 5
	
	
	

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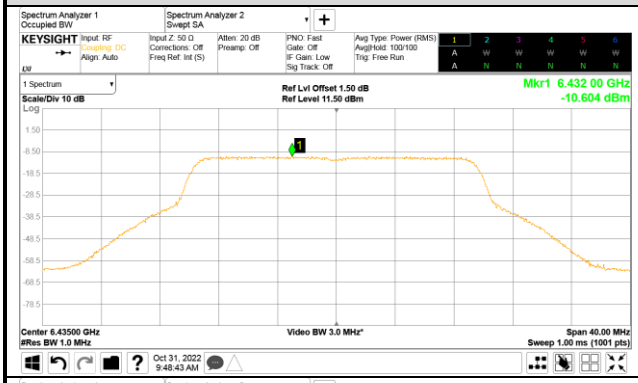
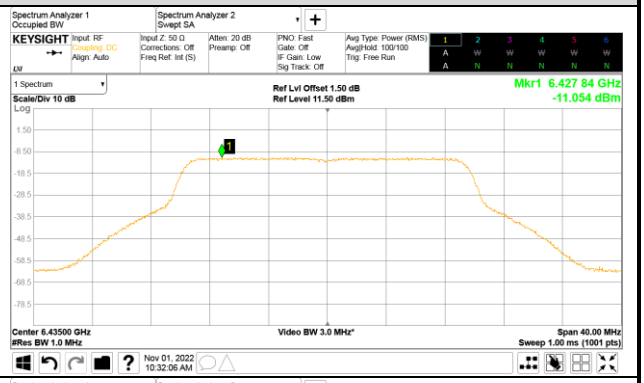
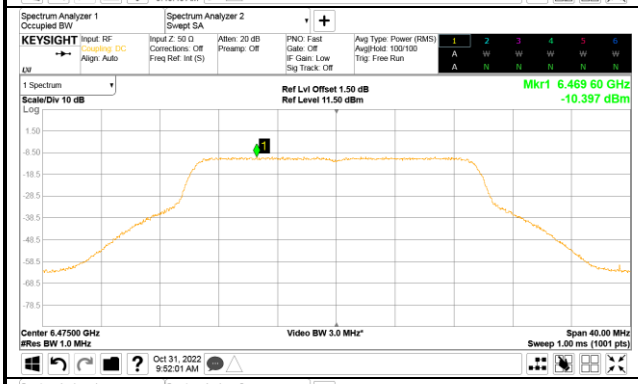
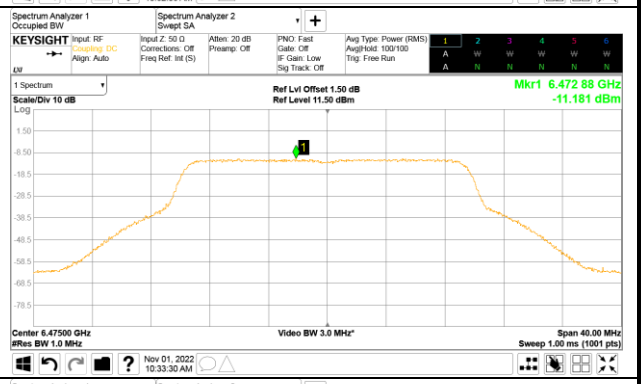
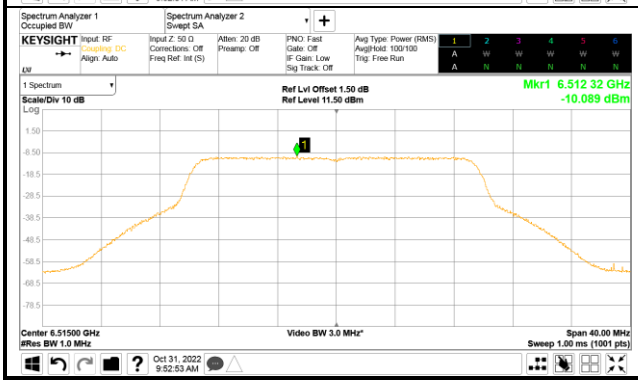
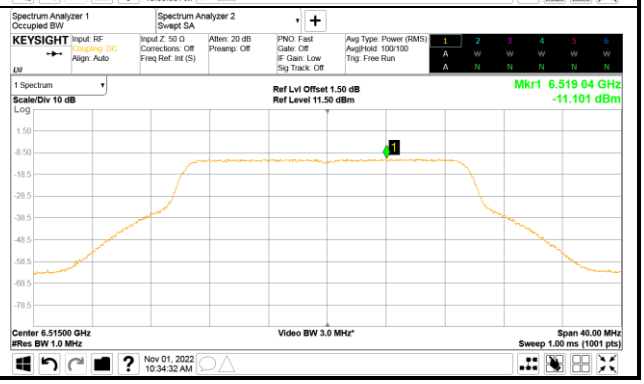
Mode: 802.11ax-HE20	
AUX	Main
U-NII Band 6	U-NII Band 6
	
	
	

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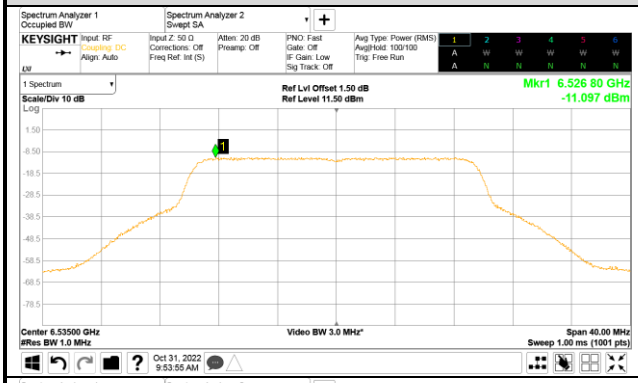
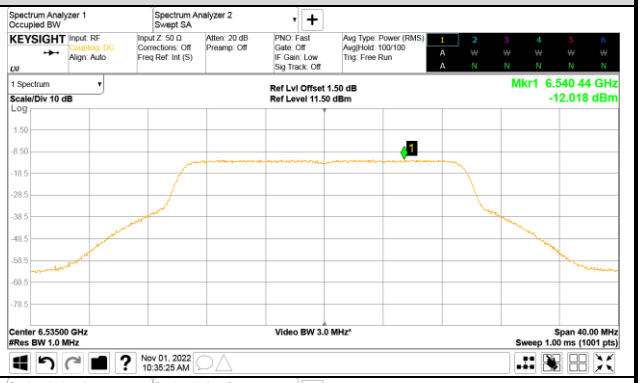
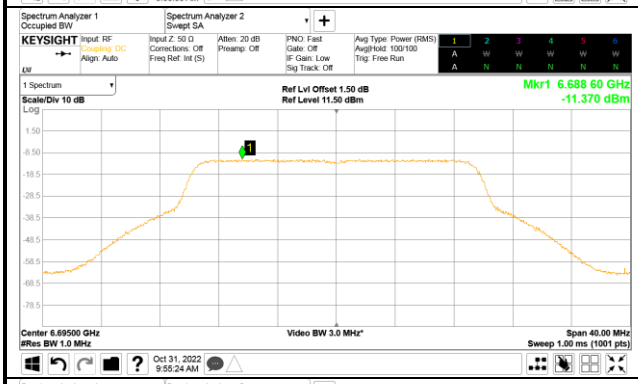
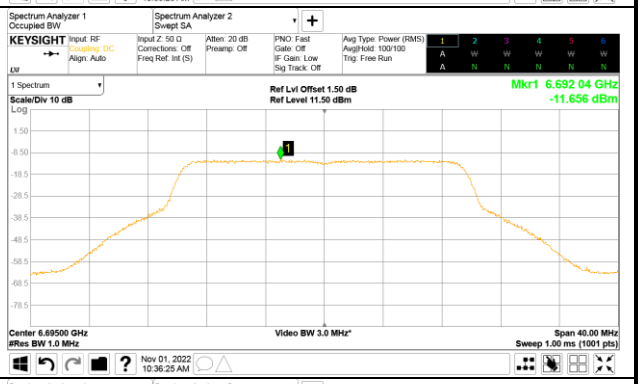
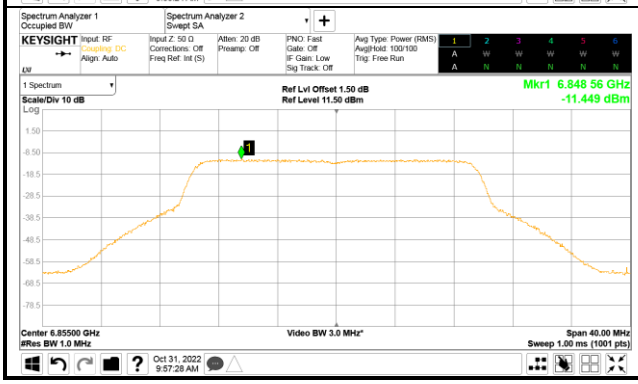
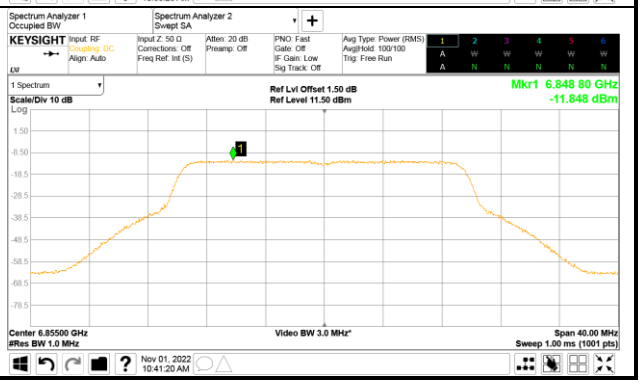
Mode: 802.11ax-HE20	
AUX	Main
U-NII Band 7	U-NII Band 7
	
	
	

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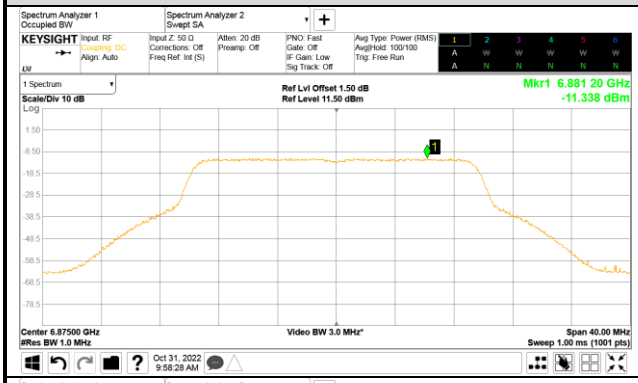
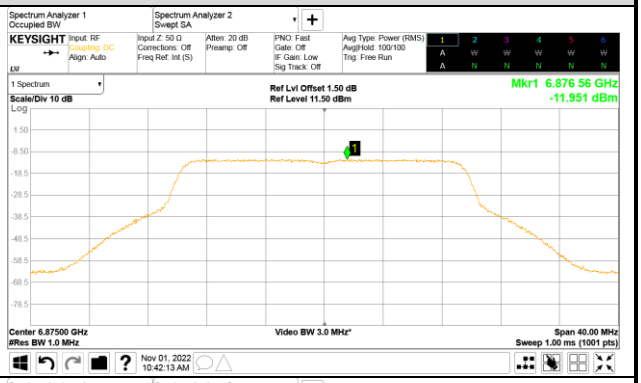
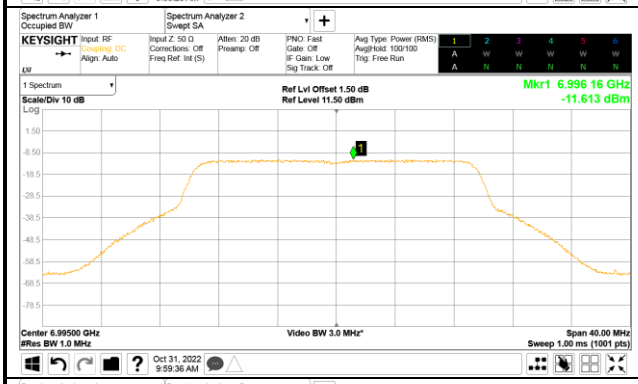
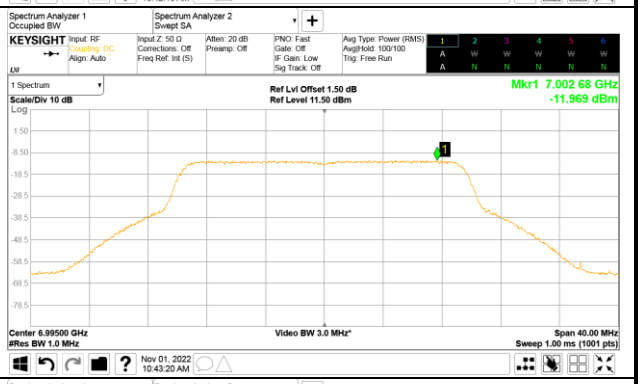
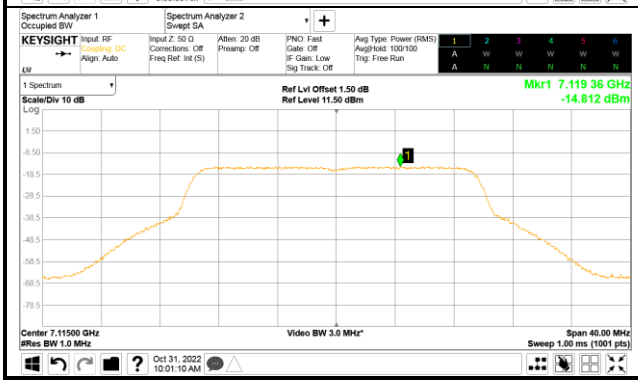
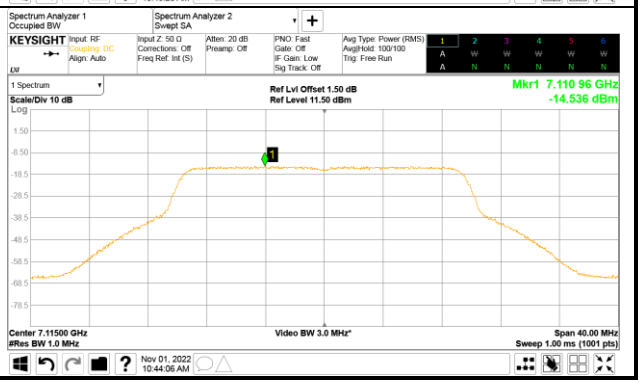
Mode: 802.11ax-HE20	
AUX	Main
U-NII Band 8	U-NII Band 8
	
	
	

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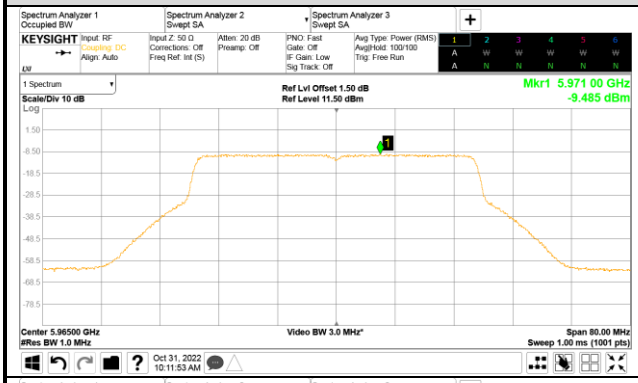
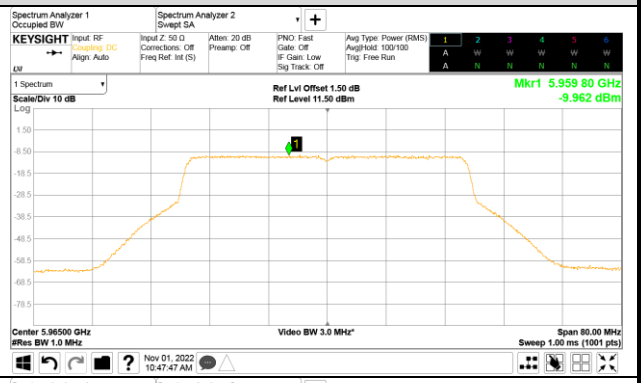
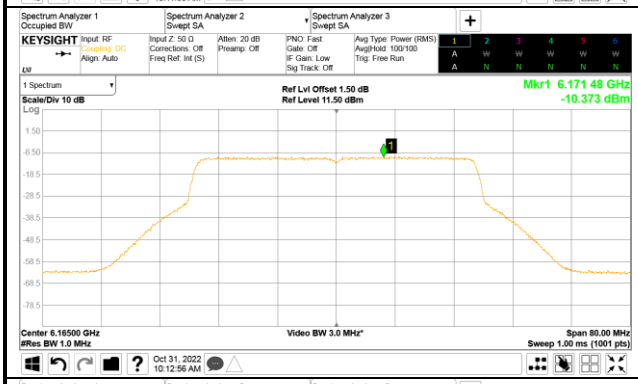
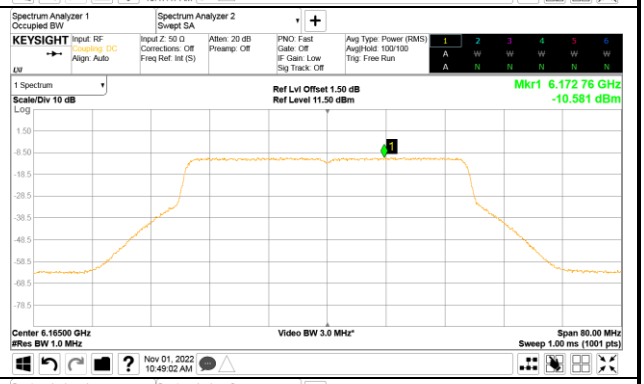
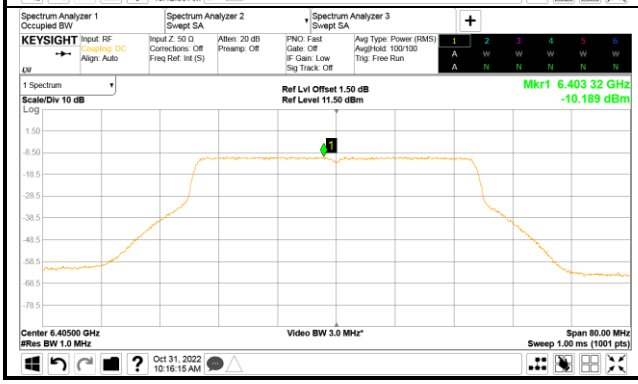
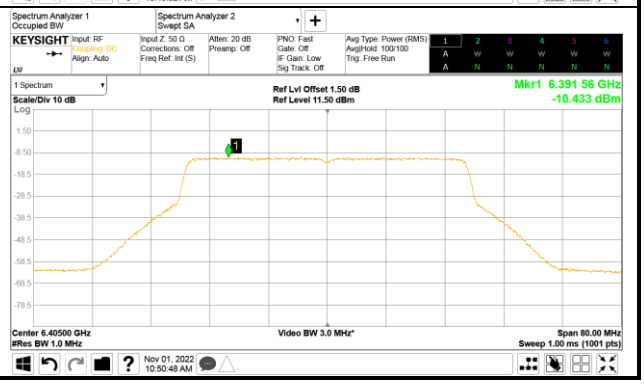
Mode: 802.11ax-HE40	
AUX	Main
U-NII Band 5	U-NII Band 5
	
	
	

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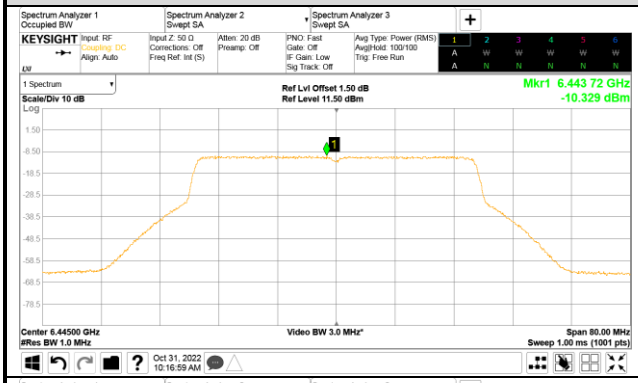
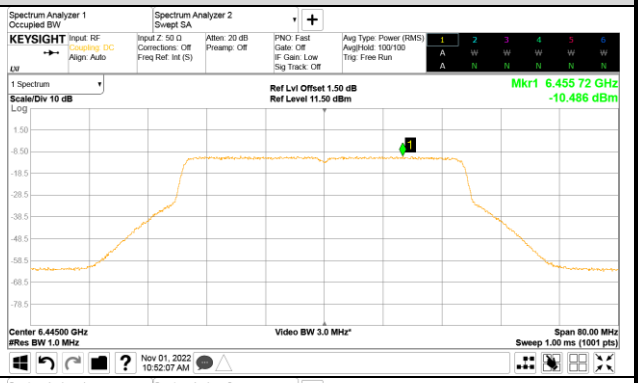
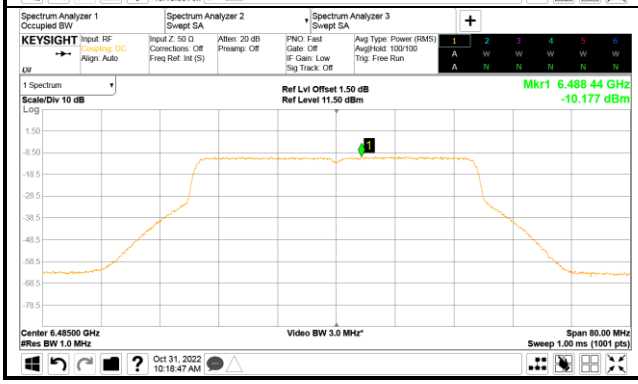
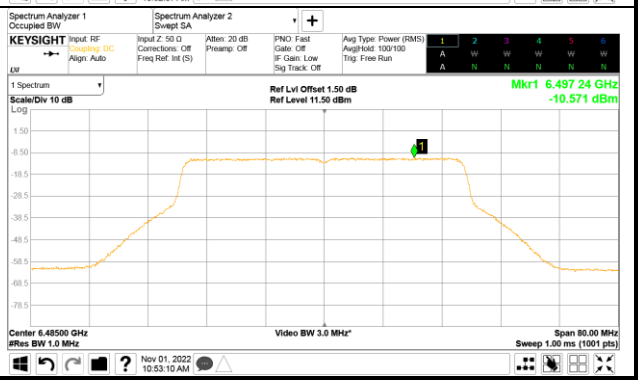
Mode: 802.11ax-HE40	
AUX	Main
U-NII Band 6	U-NII Band 6
	
	

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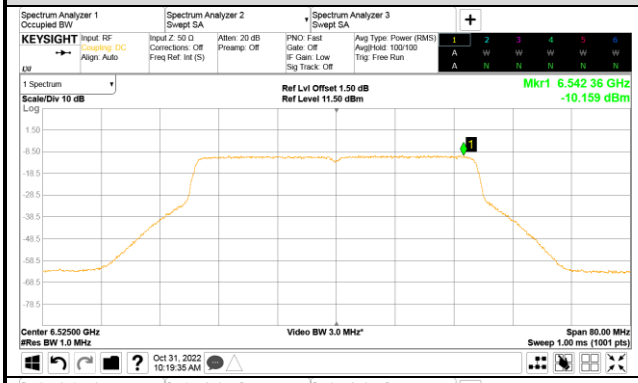
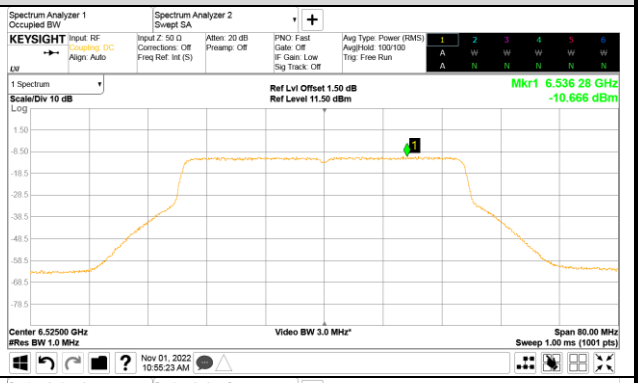
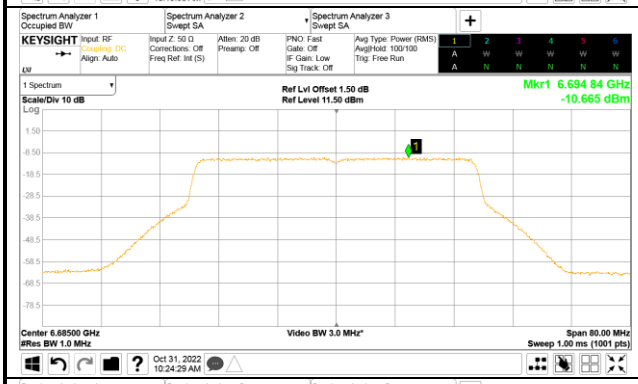
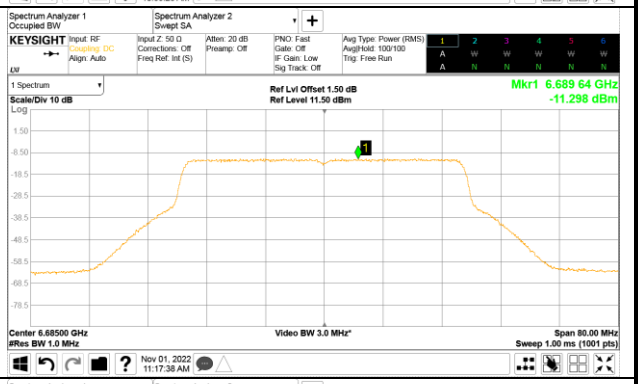
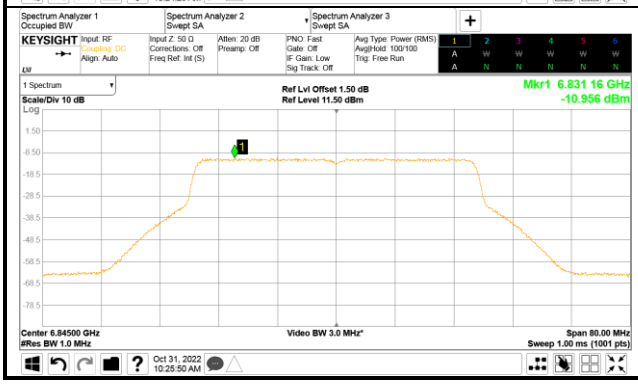
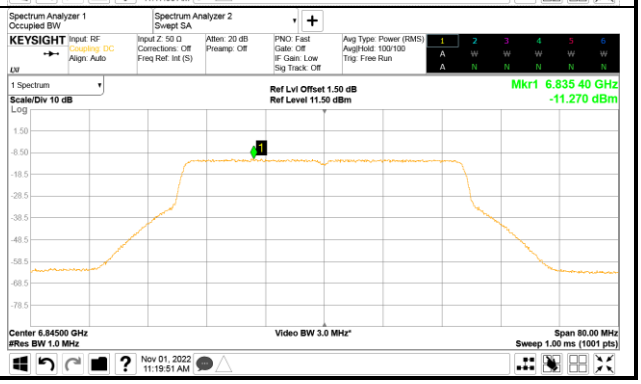
Mode: 802.11ax-HE40	
AUX	Main
U-NII Band 7	U-NII Band 7
	
	
	

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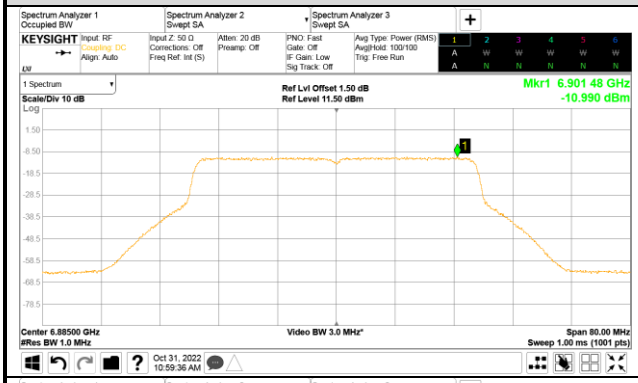
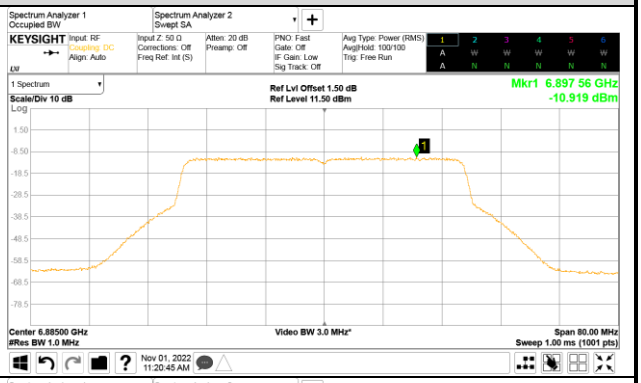
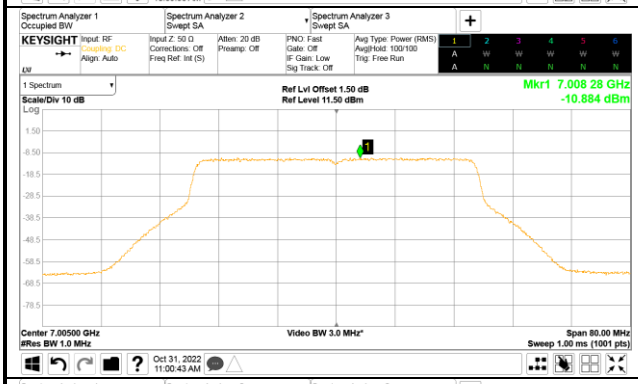
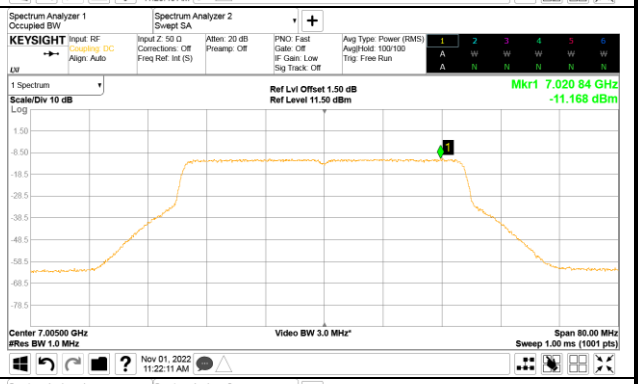
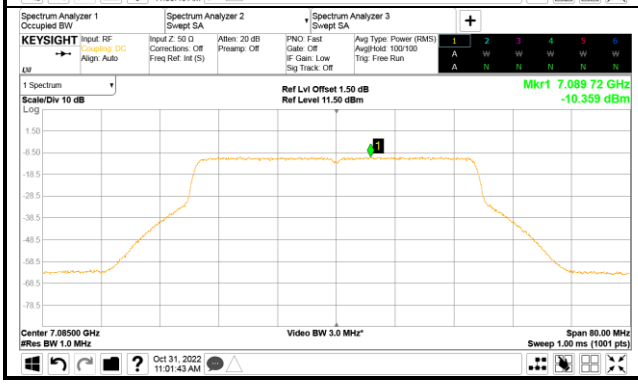
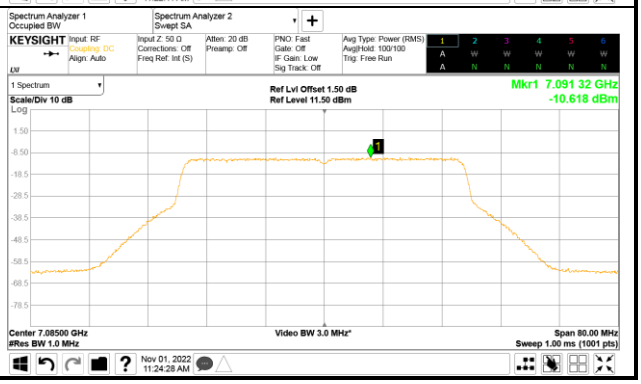
Mode: 802.11ax-HE40	
AUX	Main
U-NII Band 8	U-NII Band 8
	
	
	

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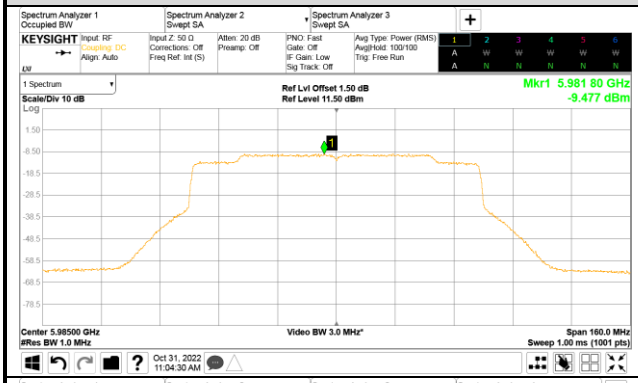
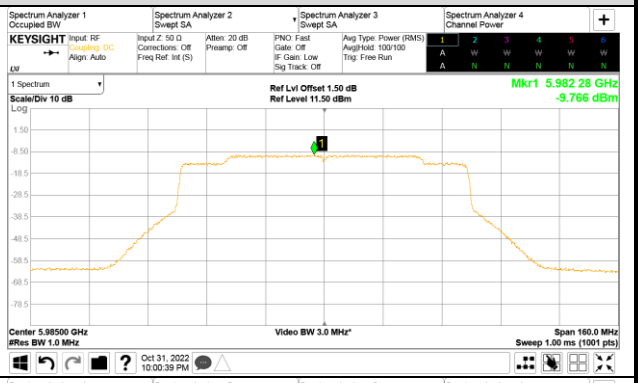
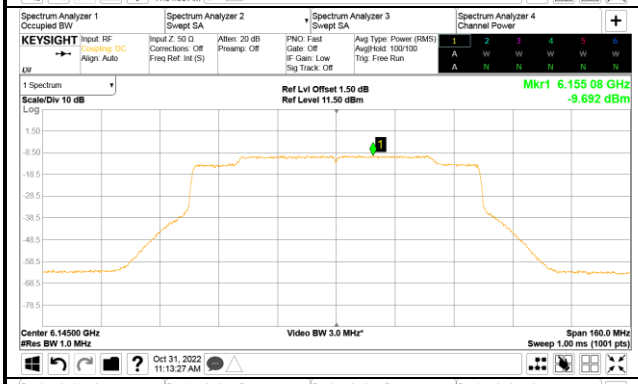
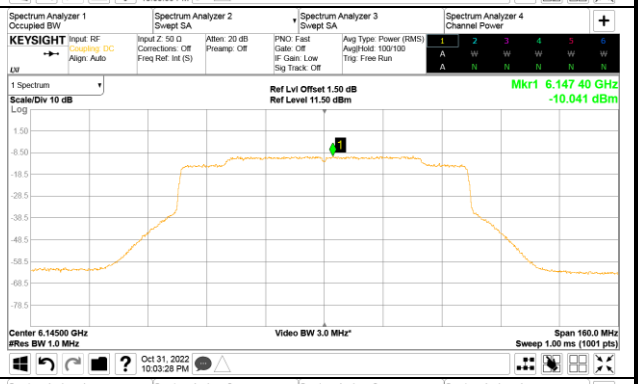
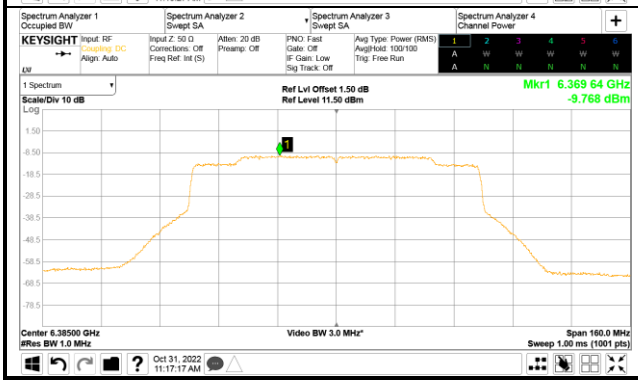
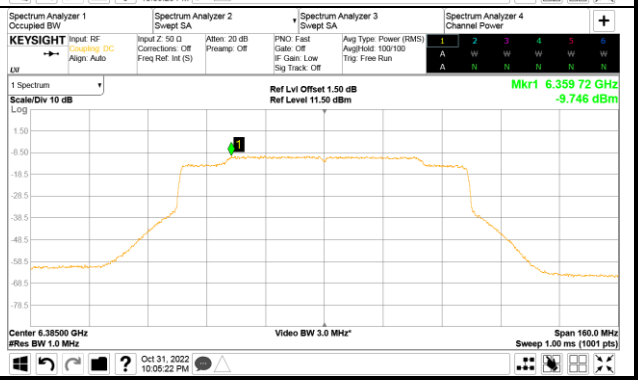
Mode: 802.11ax-HE80	
AUX	Main
U-NII Band 5	U-NII Band 5
	
	
	

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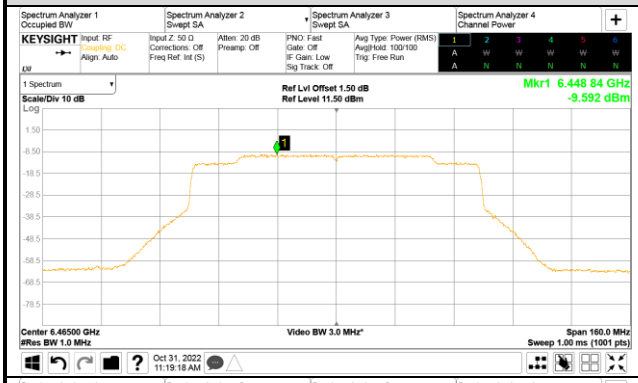
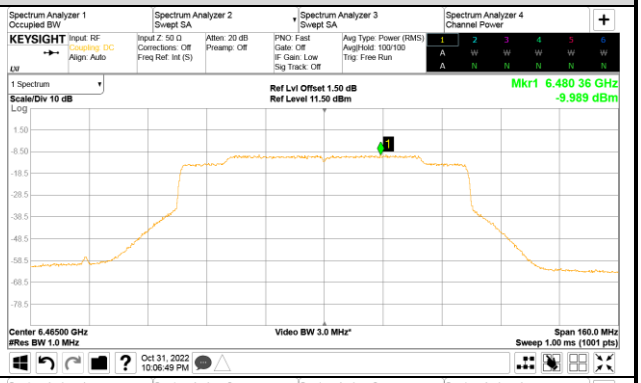
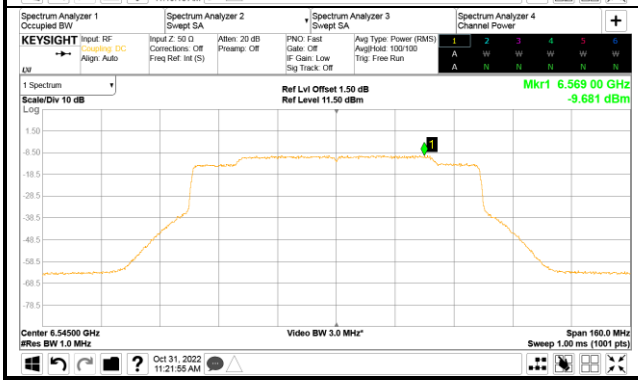
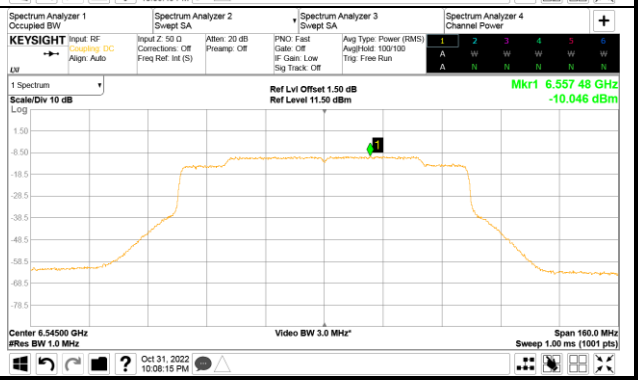
Mode: 802.11ax-HE80	
AUX	Main
U-NII Band 6	U-NII Band 6
	
	

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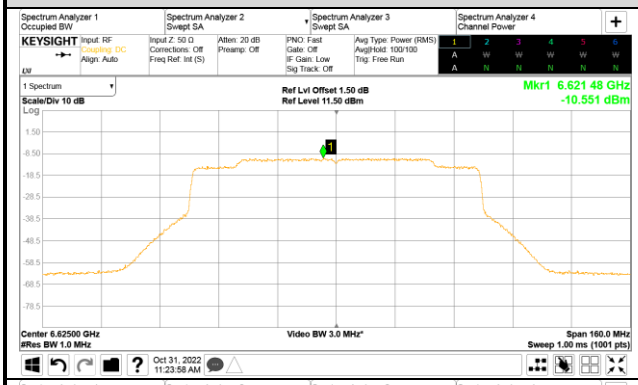
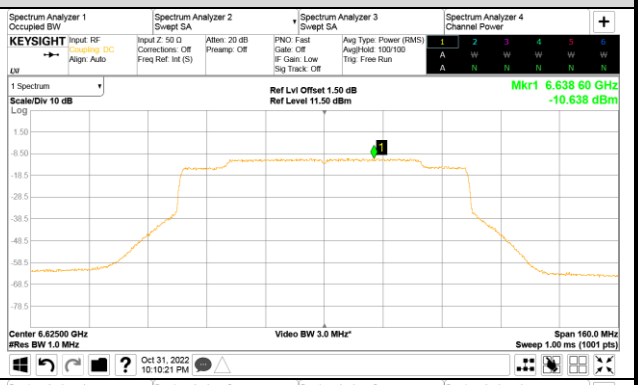
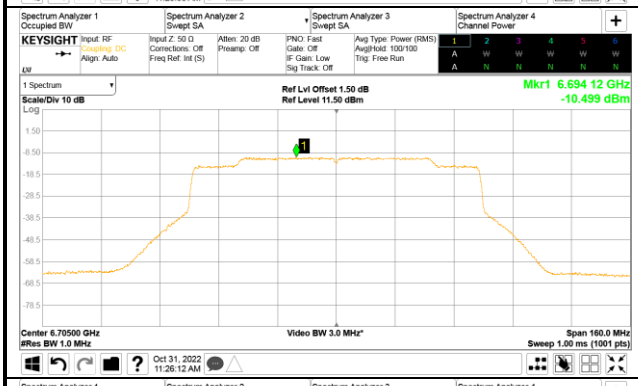
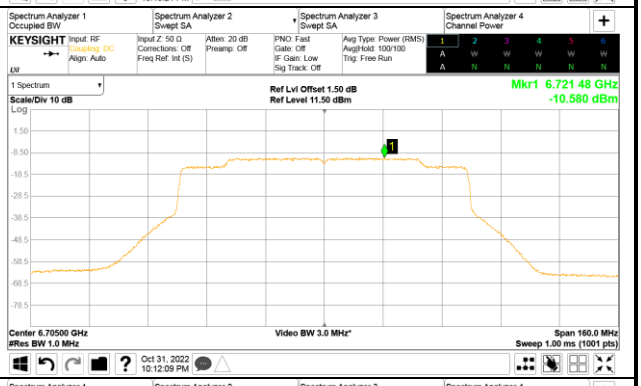
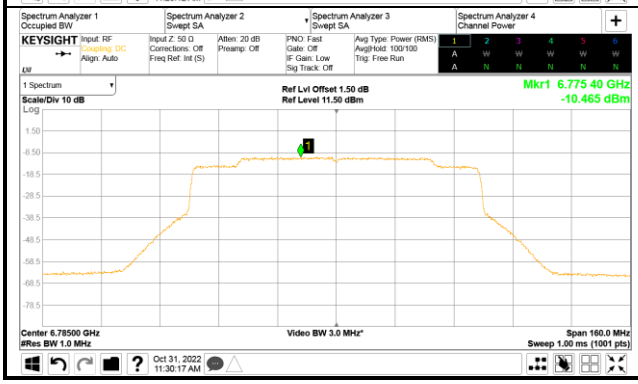
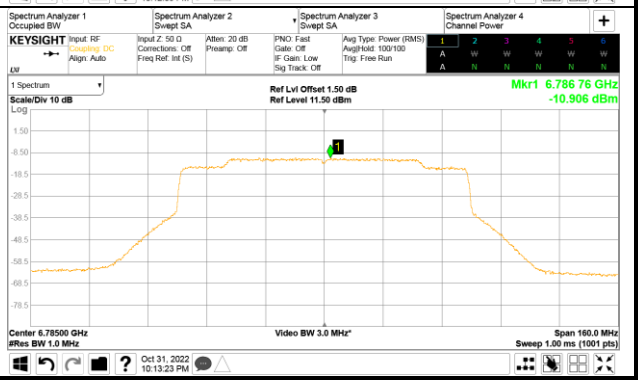
Mode: 802.11ax-HE80	
AUX	Main
U-NII Band 7	U-NII Band 7
	
	
	

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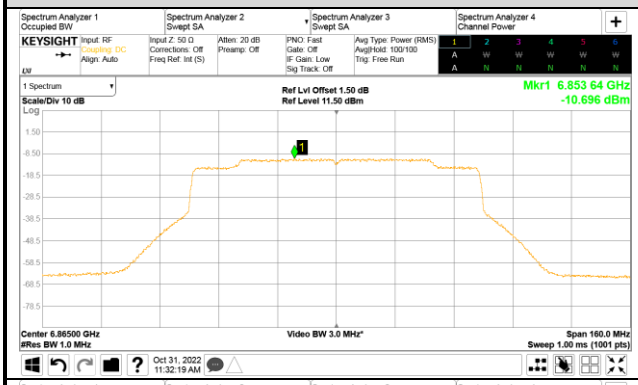
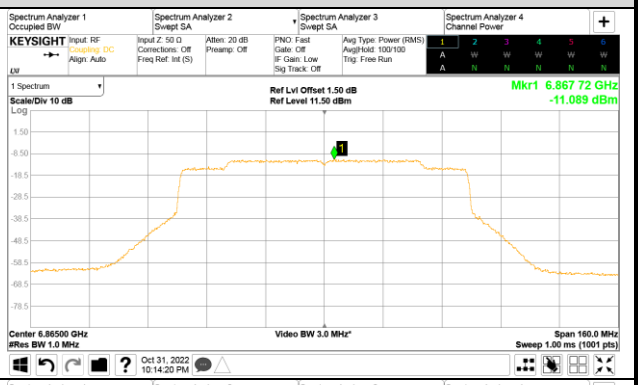
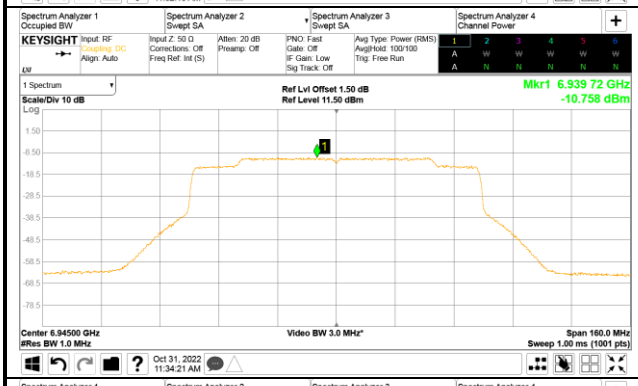
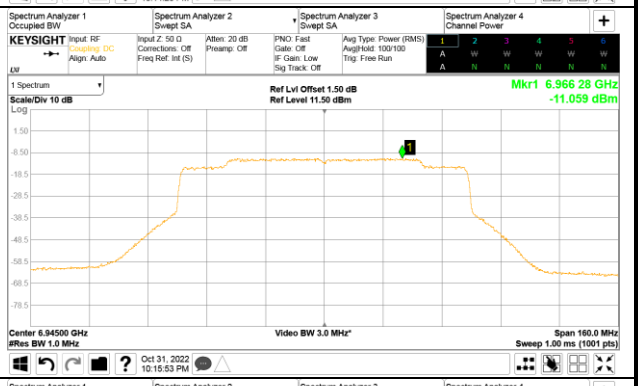
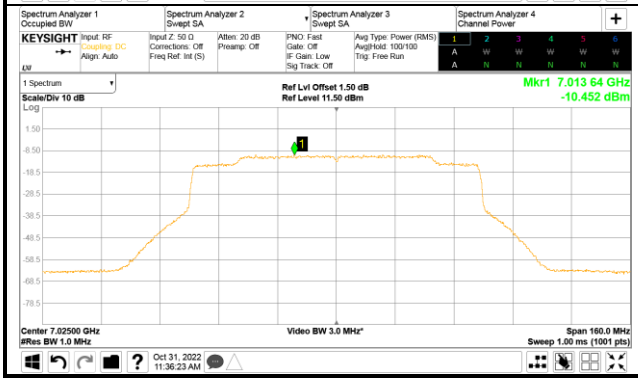
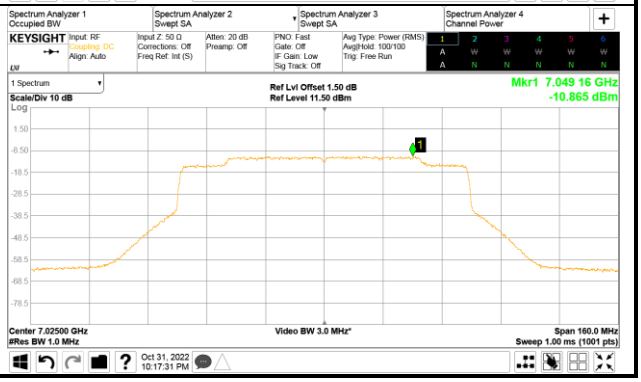
Mode: 802.11ax-HE80	
AUX	Main
U-NII Band 8	U-NII Band 8
	
	
	

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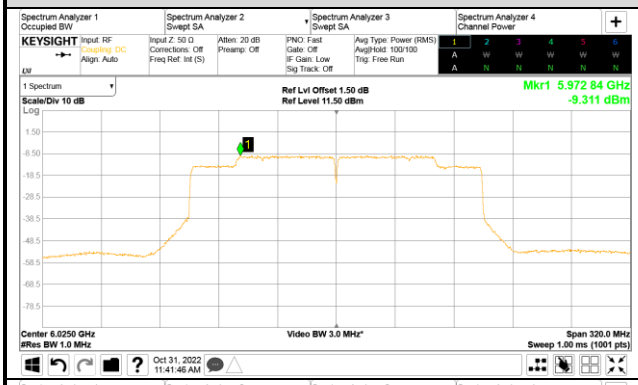
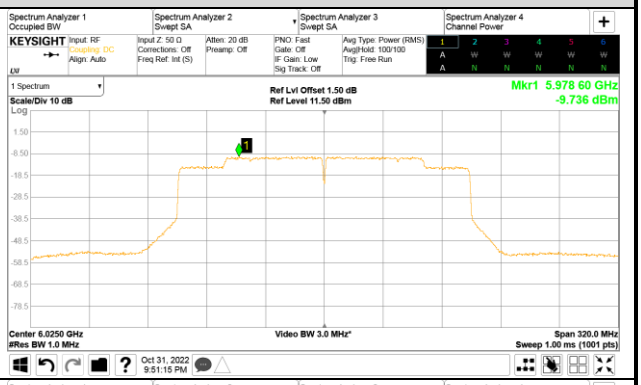
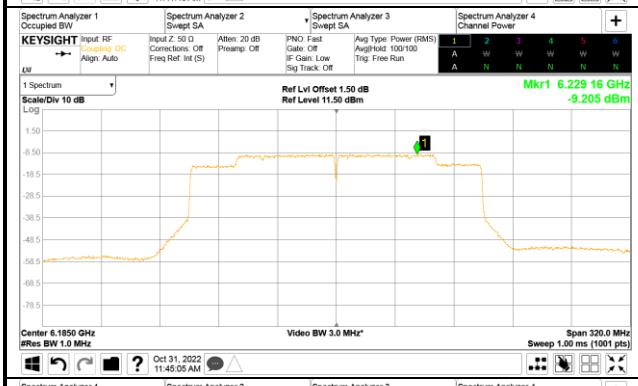
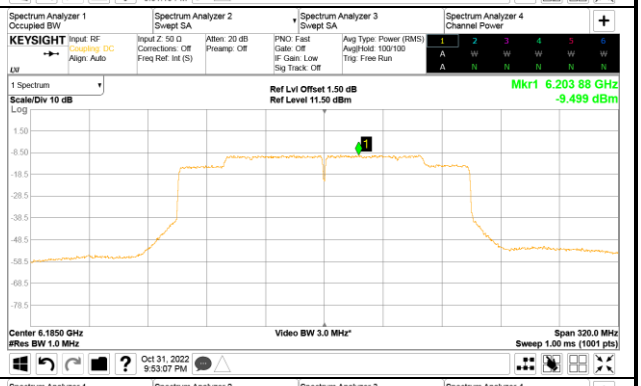
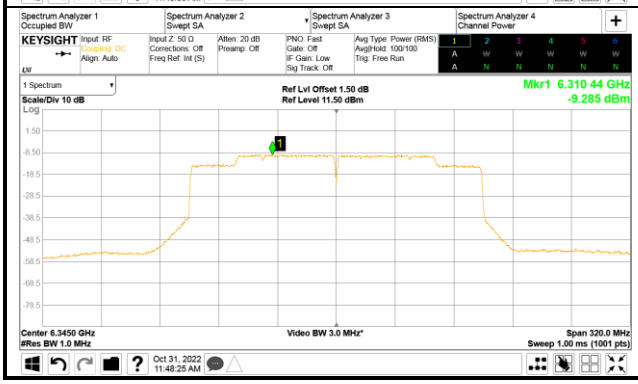
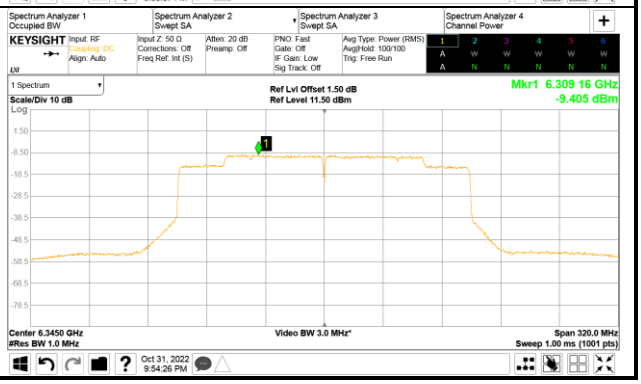
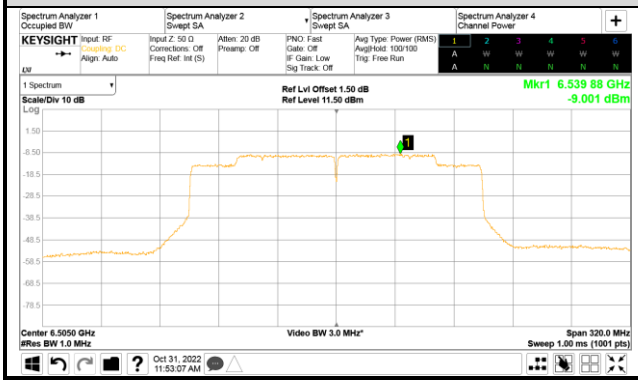
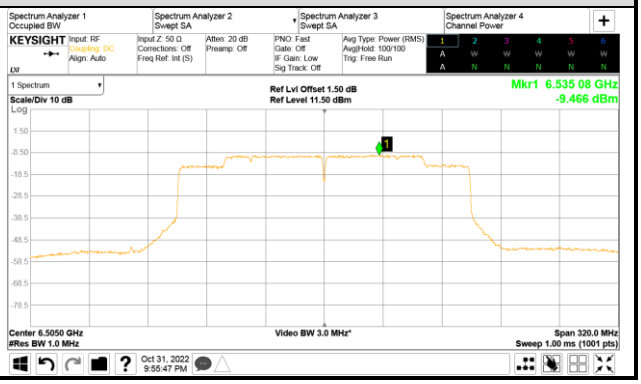
Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 5	U-NII Band 5
	
	
	

Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 6	U-NII Band 6
	

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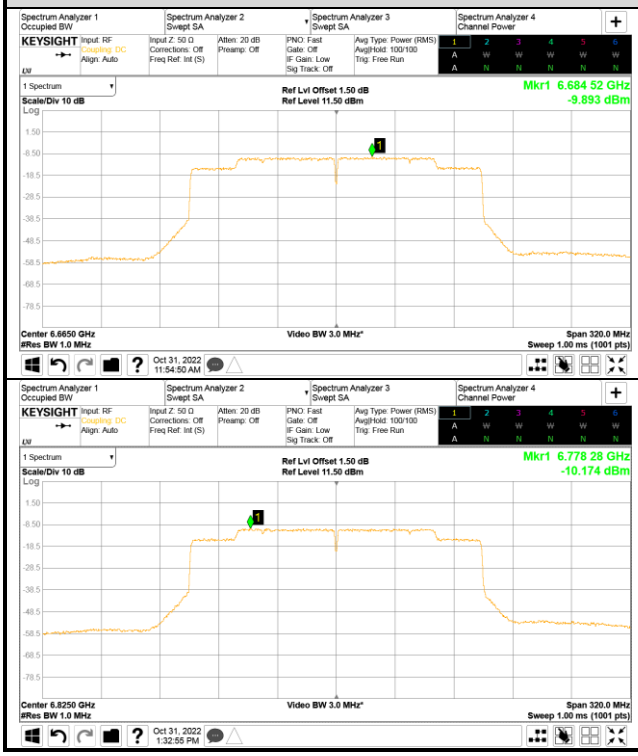
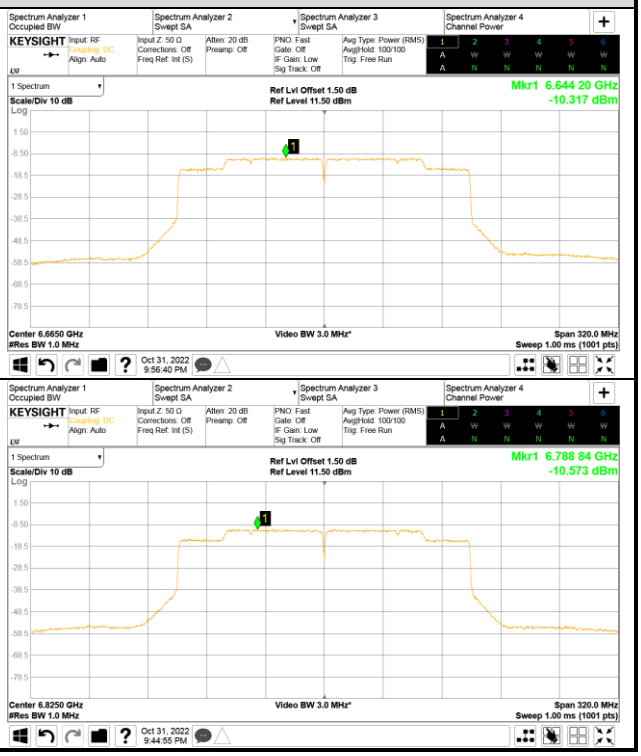
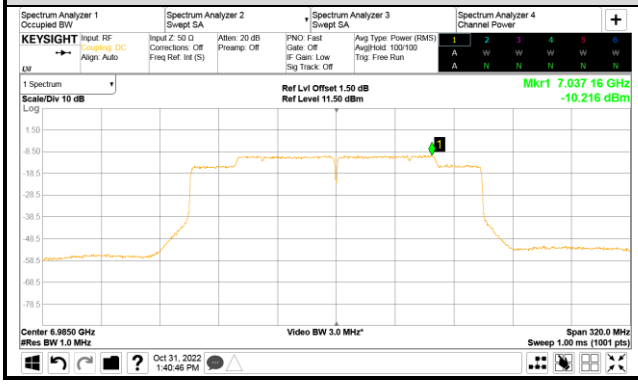
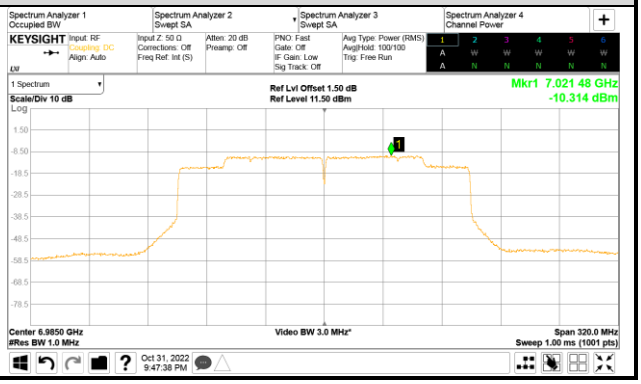
Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 7	U-NII Band 7





Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 8	U-NII Band 8





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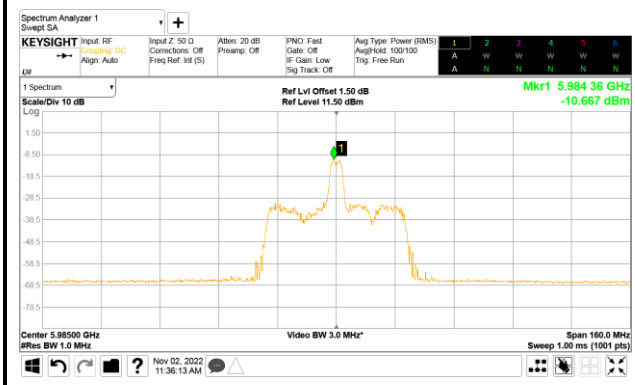
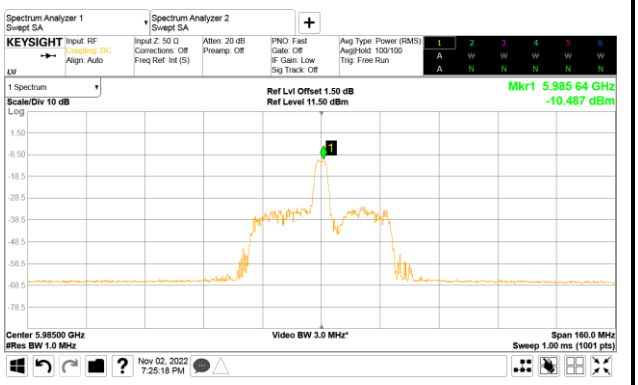
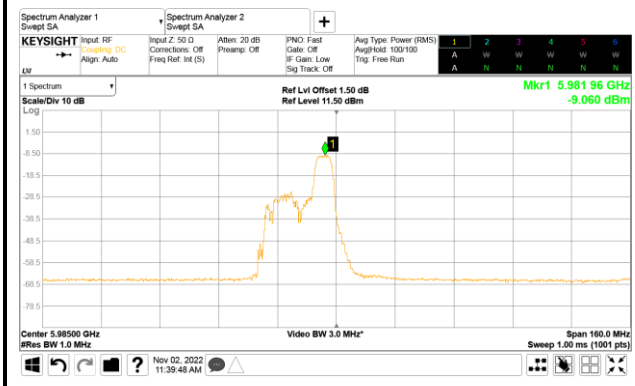
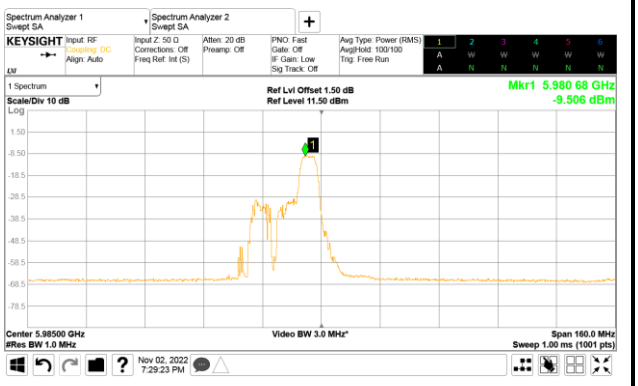
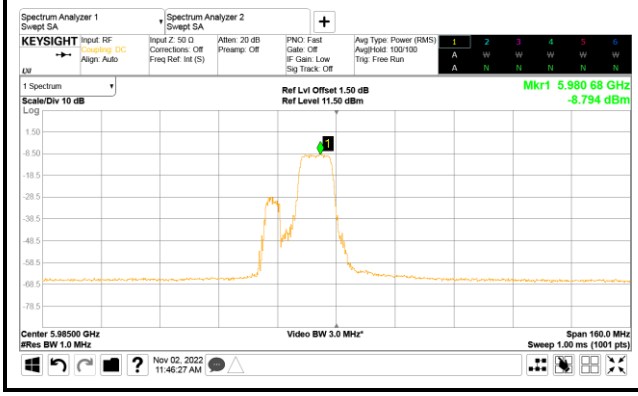
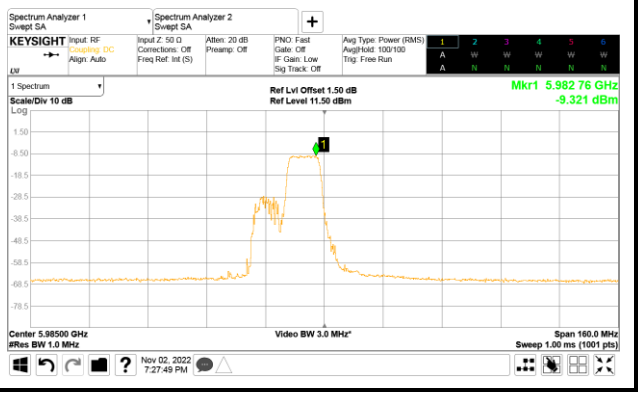
- OFDMA Modulation

Tones: 26T	
802.11ax-HE80, RU Index: 18	
U-NII Band 5, Centre Frequency: 5985MHz	
AUX	Main
	
Tones: 52T	
802.11ax-HE80, RU Index: 44	
U-NII Band 5, Centre Frequency: 5985MHz	
AUX	Main
	
Tones: 106T	
802.11ax-HE80, RU Index: 56	
U-NII Band 5, Centre Frequency: 5985MHz	
AUX	Main
	

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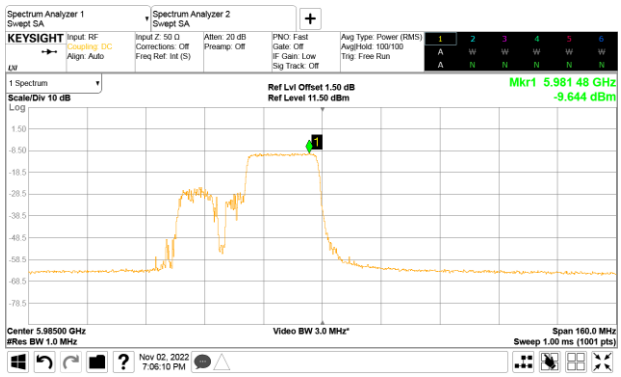
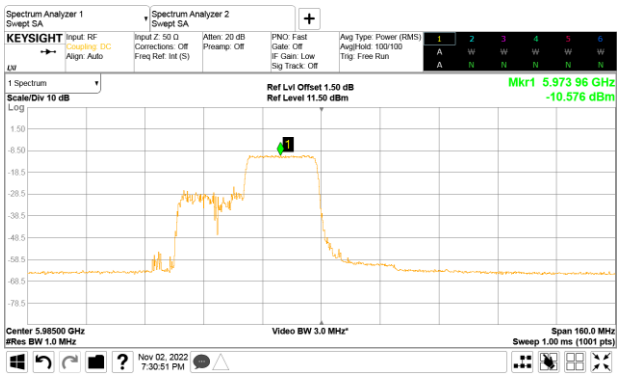
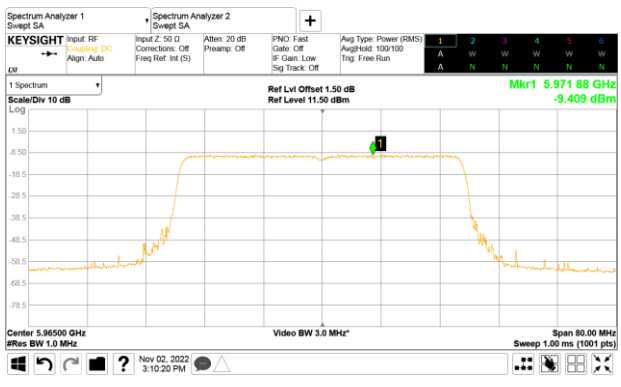
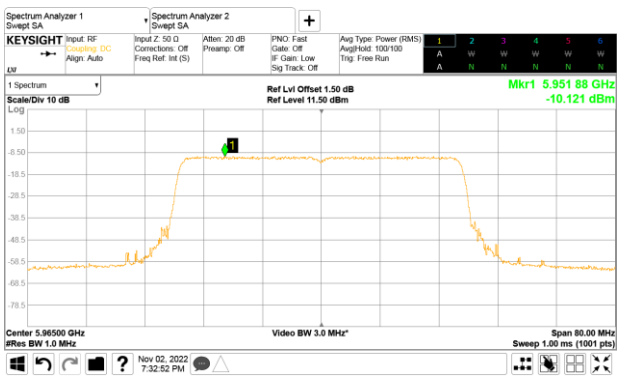
Tones: 242T	
802.11ax-HE80, RU Index: 62	
U-NII Band 5, Centre Frequency: 5985MHz	
AUX	Main
	

Tones: 484T	
802.11ax-HE40, RU Index: 65	
U-NII Band 5, Centre Frequency: 5965MHz	
AUX	Main
	

Tones: 996T	
802.11ax-HE160, RU Index: 67	
U-NII Band 5, Centre Frequency: 6025MHz	
AUX	Main