Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Date	2022/11/02~03	Temp./Hum.	22 ~ 25℃/62 ~ 66%
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) Note 2	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE20	5	5955	-9.871	-11.317	N/A	4.490	-3.034	-1
		6175	-10.113	-11.571		4.490	-3.281	
		6415	-9.916	-11.263		2.600	-4.927	
	6	6435	-9.857	-11.358		2.600	-4.933	
		6475	-9.879	-11.227		2.600	-4.891	
		6515	-10.200	-11.531		2.600	-5.204	
	7	6535	-10.789	-12.568		2.600	-5.978	
		6695	-10.663	-12.546		2.600	-5.893	
		6855	-11.057	-12.335		3.070	-5.569	
	8	6875	-11.121	-12.655		3.070	-5.740	
		6995	-10.555	-12.102		3.070	-5.180	
		7115	-14.565	-15.523		3.070	-8.937	
802.11ax-HE40	5	5965	-9.636	-10.353	N/A	4.490	-2.479	
		6165	-9.720	-10.536		4.490	-2.609	
		6405	-9.534	-10.402		2.600	-4.336	
	6	6445	-9.549	-10.356		2.600	-4.323	
		6485	-9.599	-10.424		2.600	-4.382	
	7	6525	-9.887	-10.630		2.600	-4.632	
		6685	-10.545	-11.227		2.600	-5.262	
		6845	-10.679	-11.686		3.070	-5.073	
	8	6885	-10.761	-11.517		3.070	-5.042	
		7005	-10.254	-11.165		3.070	-4.605	
		7085	-10.264	-10.993		3.070	-4.533	

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 $\log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10})/N_{ANT}]$ dBi
Directional gain:
5925MHz: Directional gain = 10 $\log[(10^{2.48/10} + 10^{5.85/10})/2]$= 4.49dBi
6525MHz: Directional gain = 10 $\log[(10^{2.50/10} + 10^{2.70/10})/2]$= 2.60dBi
7125MHz: Directional gain = 10 $\log[(10^{1.89/10} + 10^{3.99/10})/2]$= 3.07dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

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) Note 2	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE80	5	5985	-9.567	-10.100	N/A	4.490	-2.325	-1
		6145	-9.671	-10.193		4.490	-2.424	
		6385	-9.340	-9.913		2.600	-4.007	
	6	6465	-9.610	-10.272		2.600	-4.318	
		6545	-9.624	-10.451		2.600	-4.408	
	7	6625	-10.196	-11.542		2.600	-5.207	
		6705	-10.490	-11.205		2.600	-5.223	
		6785	-10.786	-11.337		2.600	-5.442	
	8	6865	-10.824	-11.479		3.070	-5.059	
		6945	-10.583	-10.996		3.070	-4.704	
		7025	-10.559	-10.896		3.070	-4.644	
802.11ax-HE160	5	6025	-9.792	-9.792	N/A	4.490	-2.292	
		6185	-9.719	-9.719		4.490	-2.219	
		6345	-9.515	-9.515		2.600	-3.905	
	6	6505	-9.671	-9.671		2.600	-4.061	
	7	6665	-10.404	-10.404		2.600	-4.794	
		6825	-10.671	-10.671		3.070	-4.591	
	8	6985	-10.282	-10.282		3.070	-4.202	

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[($10^{2.48/10}$ +$10^{5.85/10}$)/2]= 4.49dBi
6525MHz: Directional gain = 10 log[($10^{2.50/10}$ +$10^{2.70/10}$)/2]= 2.60dBi
7125MHz: Directional gain = 10 log[($10^{1.89/10}$ +$10^{3.99/10}$)/2]= 3.07dBi
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) Note 2	Limit (dBm/MHz)
					AUX	Main				
26T	18	802.11ax-HE80	5	5985	-11.060	-10.386	0.223	4.490	-2.987	-1
52T	44	802.11ax-HE80	5	5985	-9.757	-8.860	0.119	4.490	-1.666	
106T	56	802.11ax-HE80	5	5985	-9.320	-9.038	N/A	4.490	-1.676	
242T	62	802.11ax-HE160	5	6025	-10.489	-11.568	0.150	4.490	-3.345	
484T	65	802.11ax-HE40	5	5965	-9.978	-10.852	N/A	4.490	-2.893	
996T	67	802.11ax-HE160	5	6185	-9.761	-10.232	0.159	4.490	-2.331	

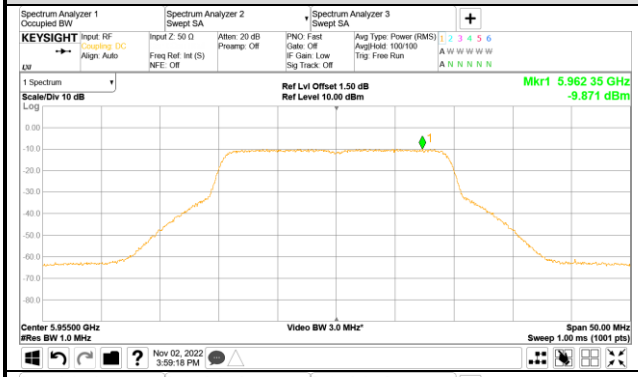
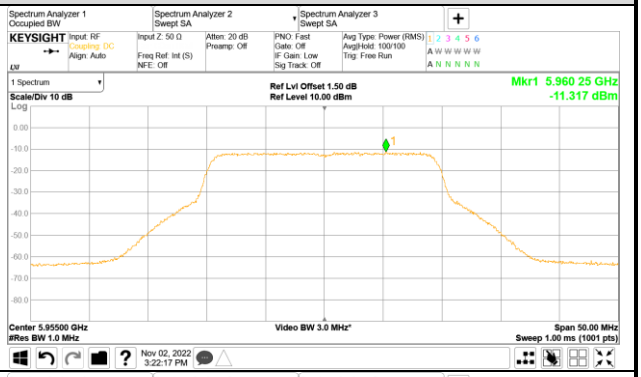
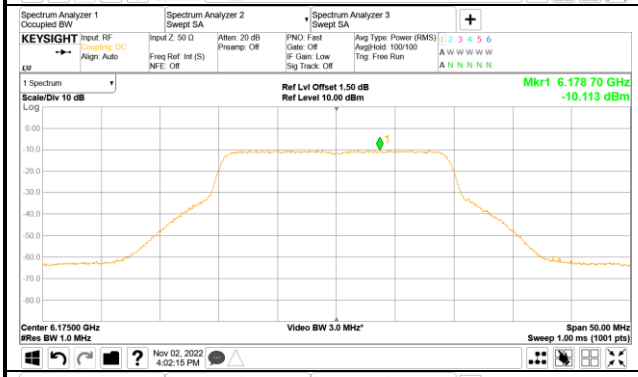
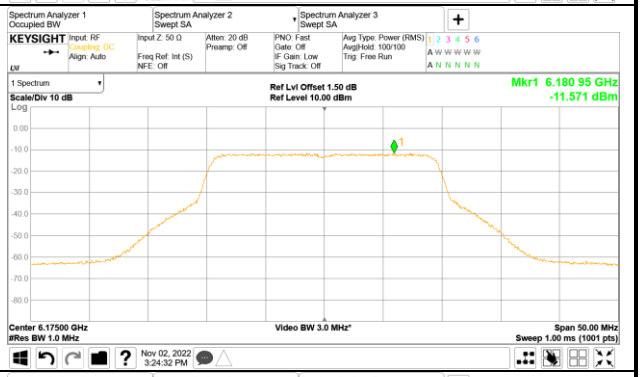
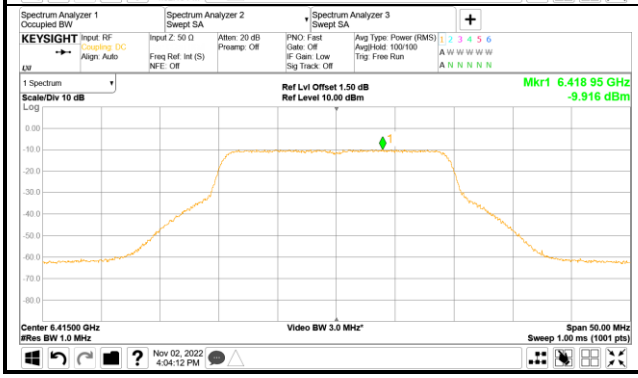
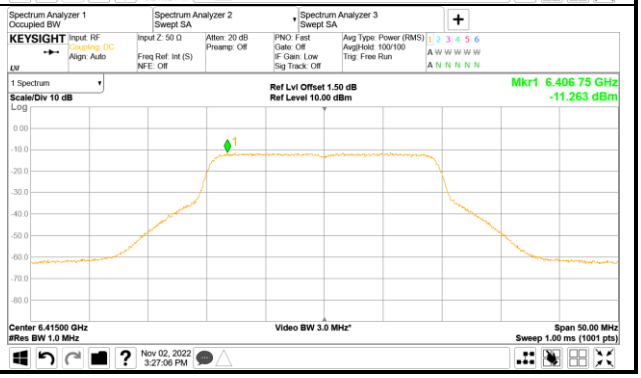
Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]
2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.
3. According to KDB 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[($10^{2.48/10}$ +$10^{5.85/10}$)/2]= 4.49dBi
6525MHz: Directional gain = 10 log[($10^{2.50/10}$ +$10^{2.70/10}$)/2]= 2.60dBi
7125MHz: Directional gain = 10 log[($10^{1.89/10}$ +$10^{3.99/10}$)/2]= 3.07dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

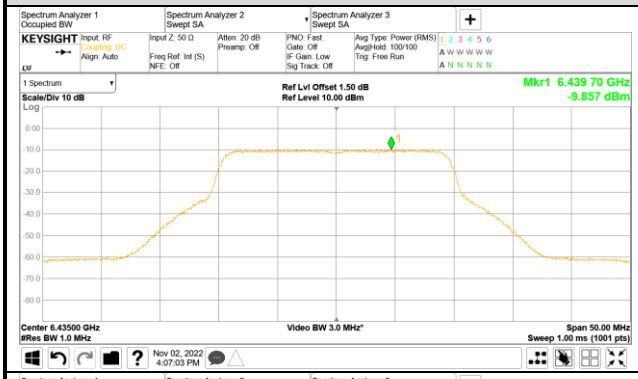
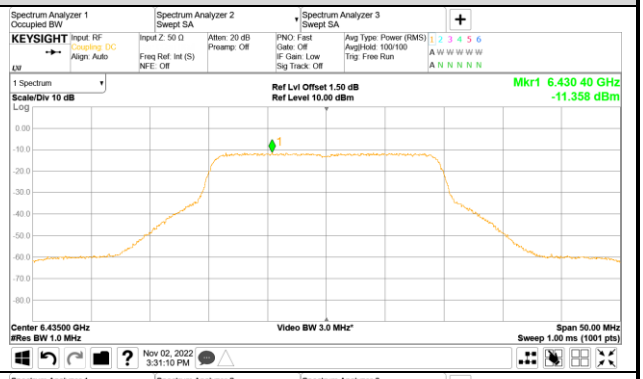
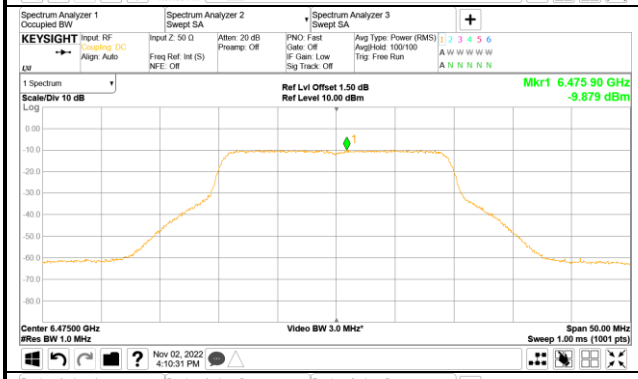
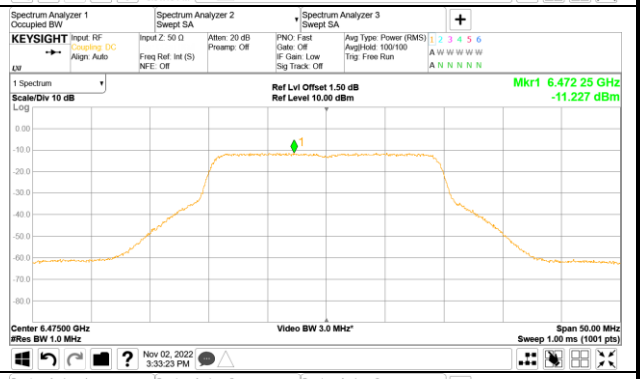
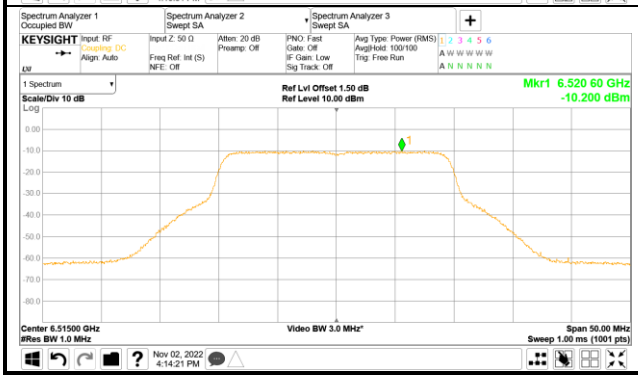
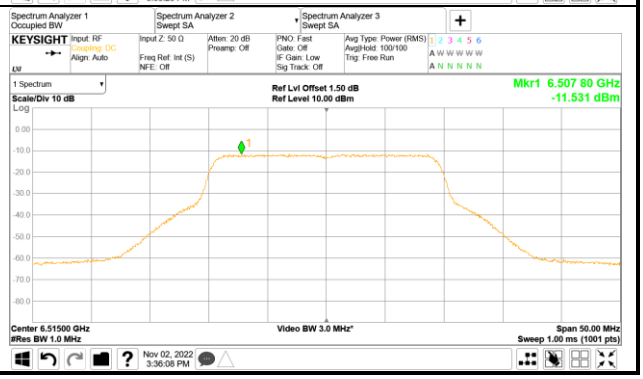
A.3.2 Measurement Plots

- OFDM Modulation

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

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

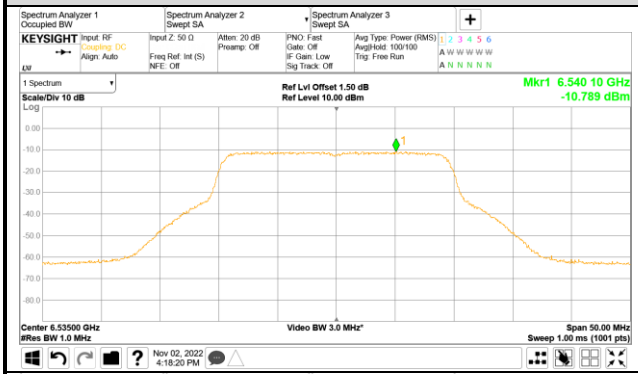
Tel: +886 2 26099301
Fax: +886 2 26099303

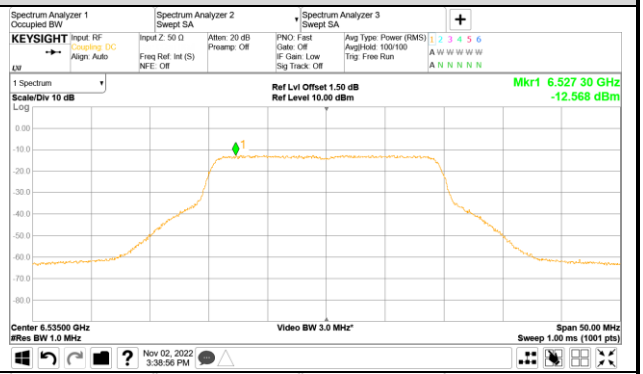
Mode: 802.11ax-HE20	
AUX	Main
U-NII Band 6	U-NII Band 6
	
	
	

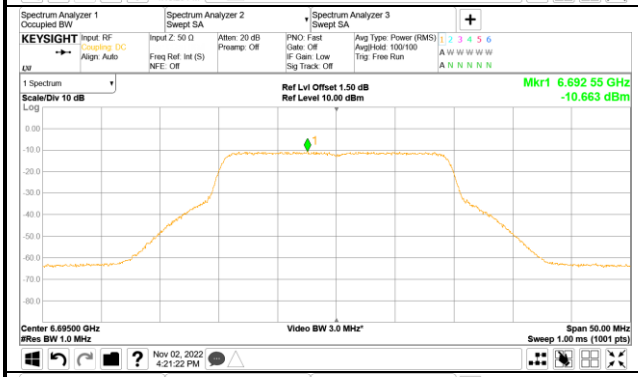
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

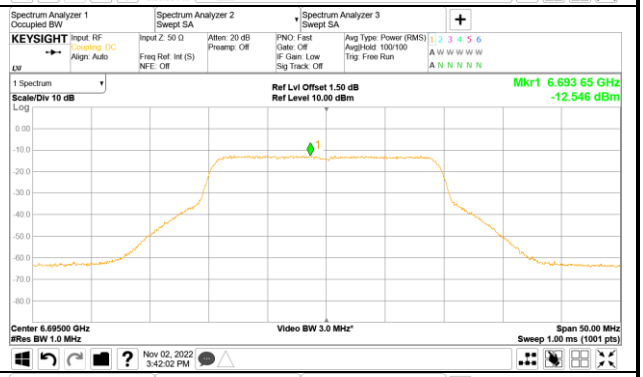
Tel: +886 2 26099301
Fax: +886 2 26099303

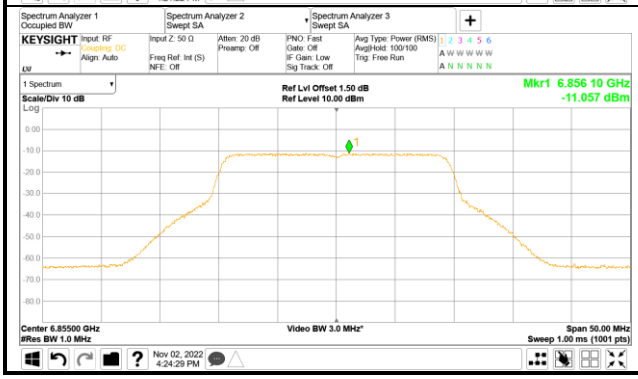
Mode: 802.11ax-HE20	
AUX	Main
U-NII Band 7	U-NII Band 7

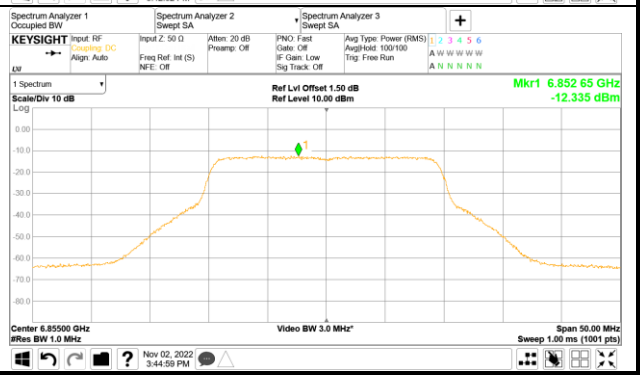






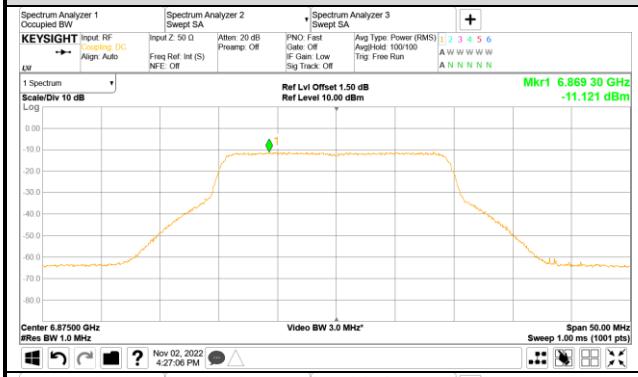
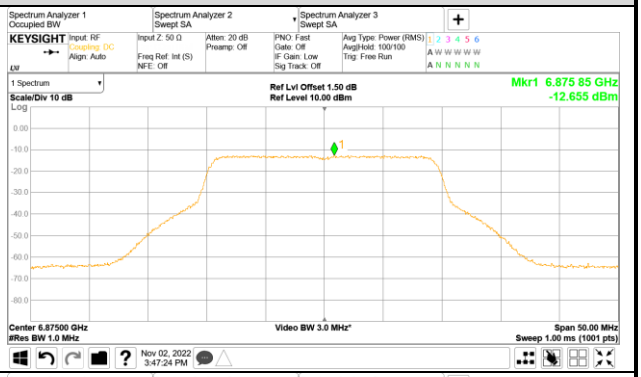
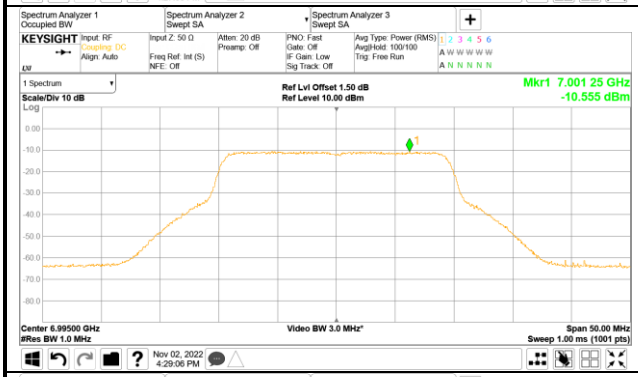
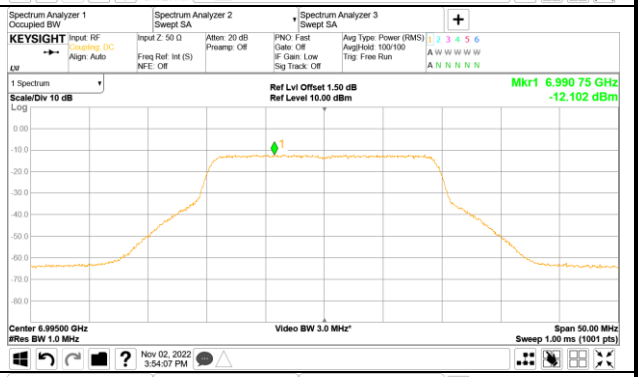
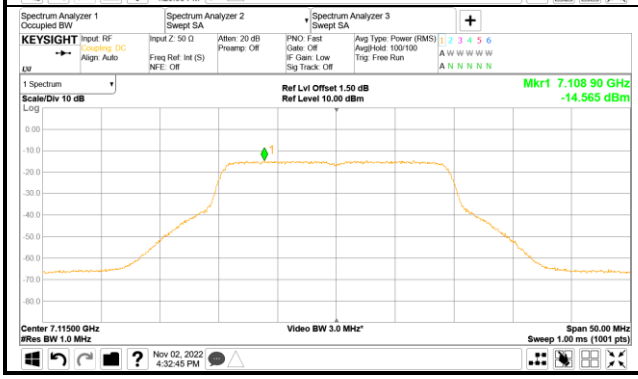
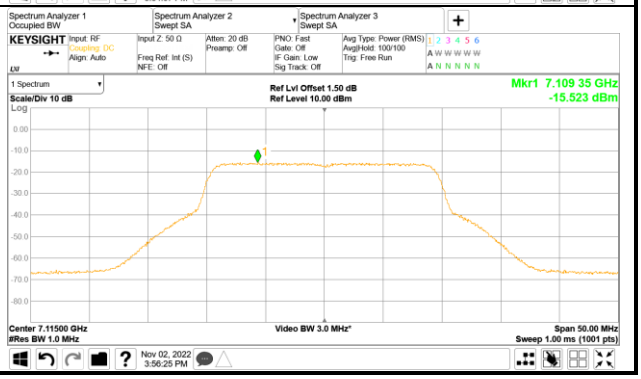






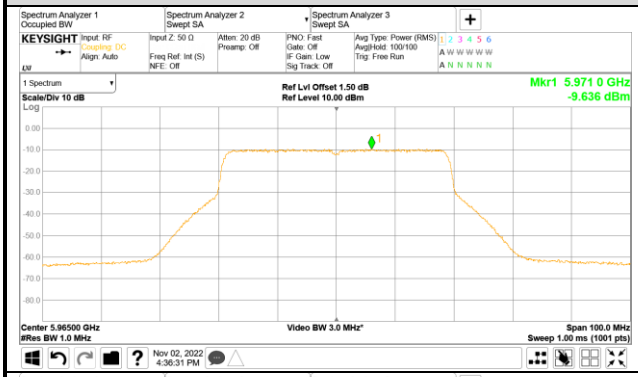
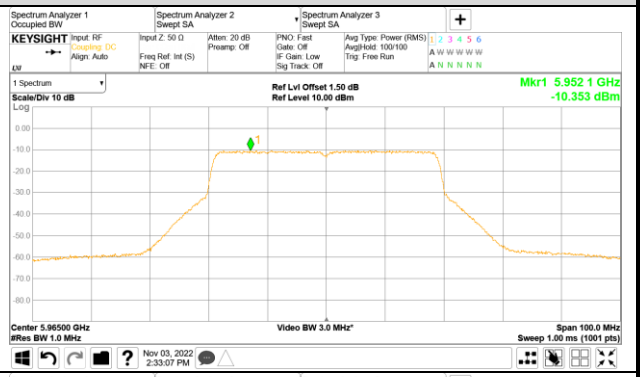
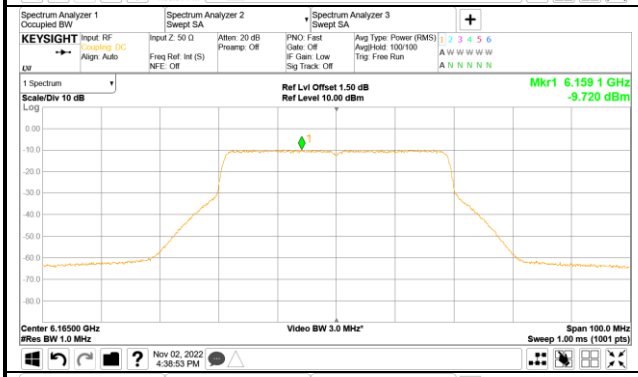
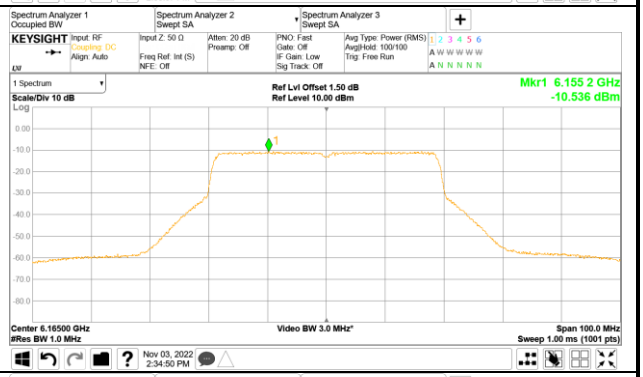
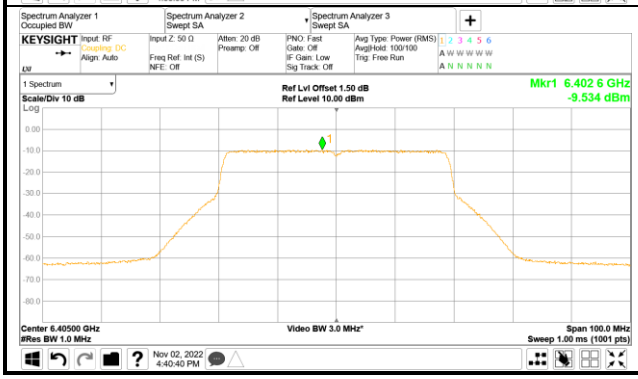
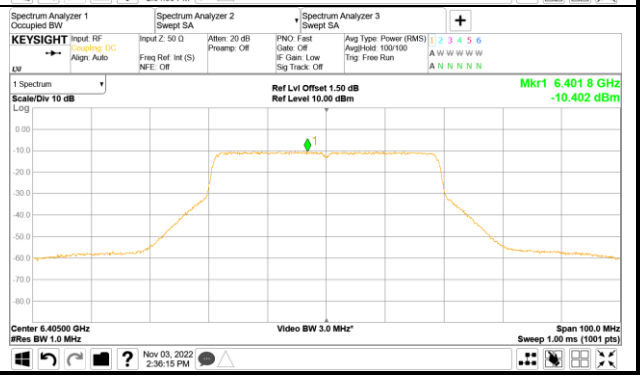
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

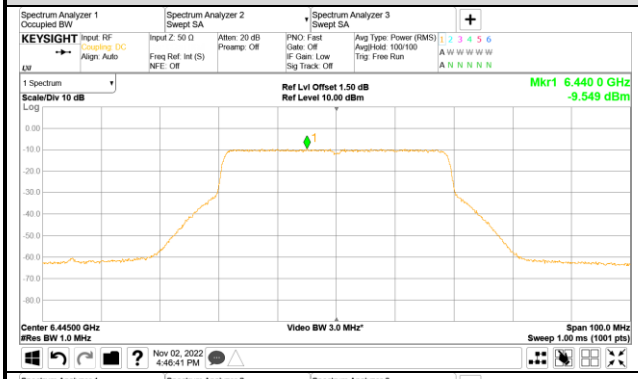
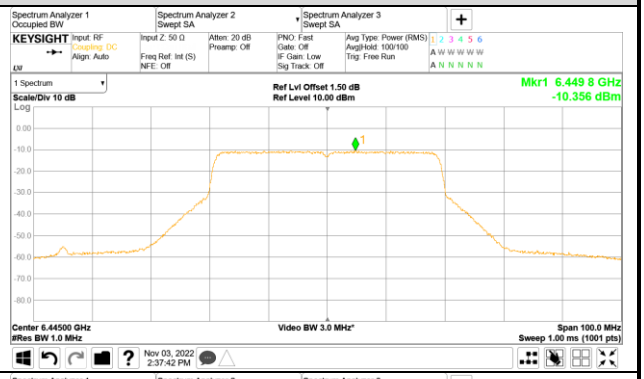
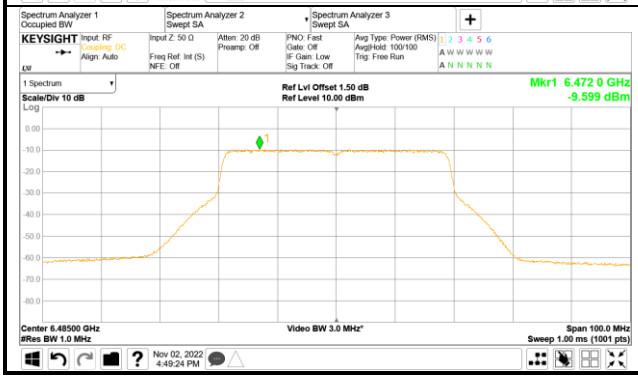
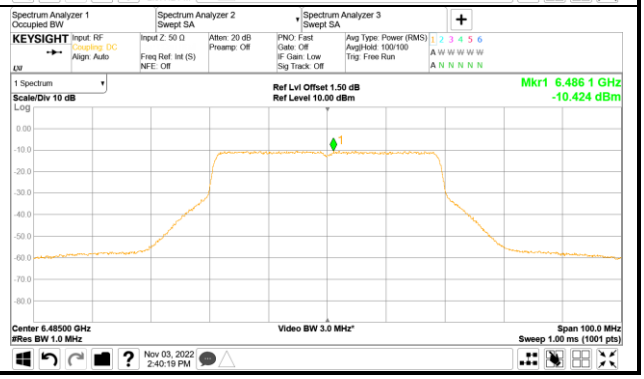
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

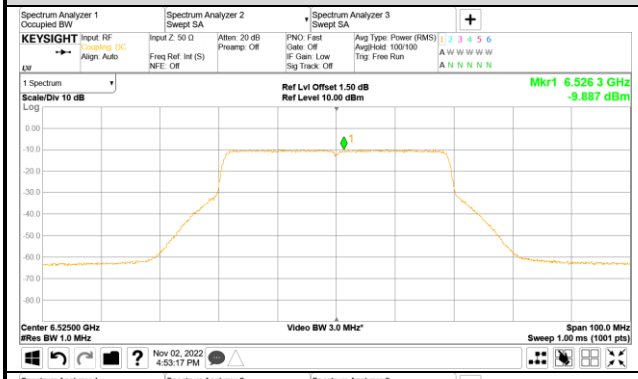
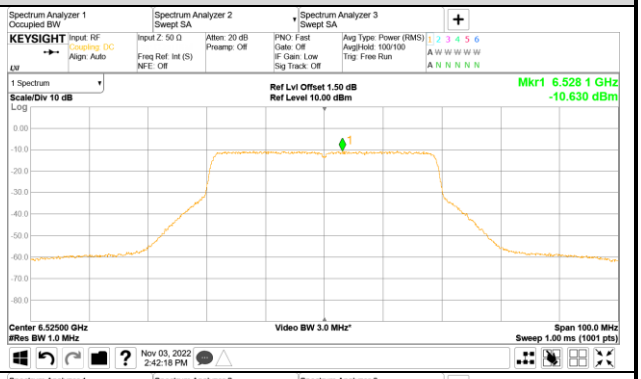
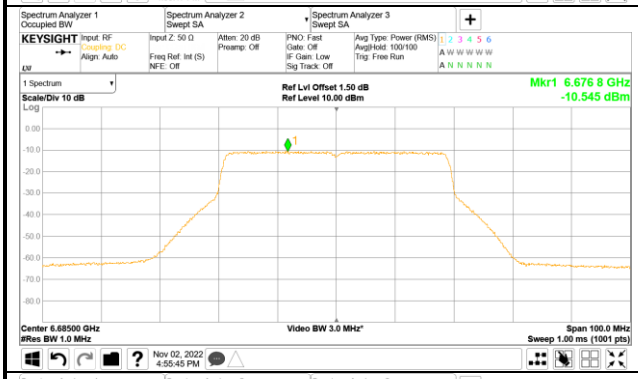
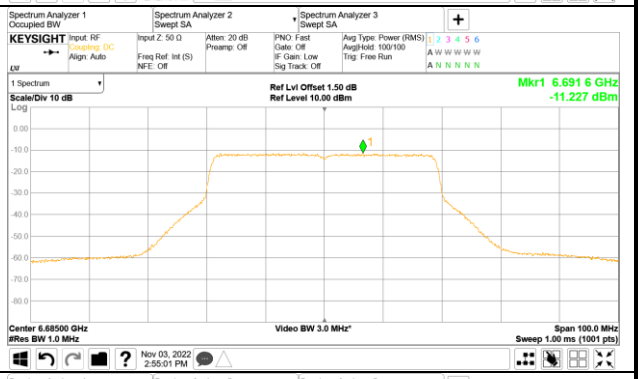
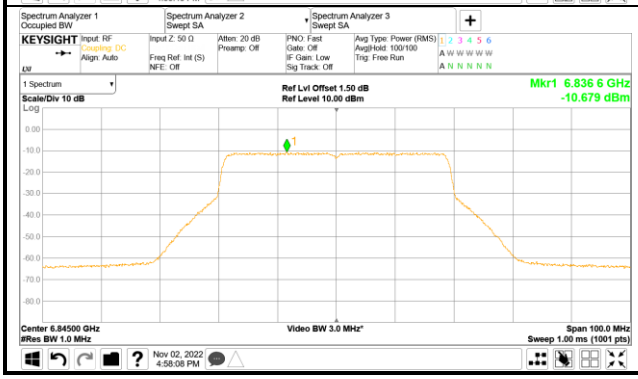
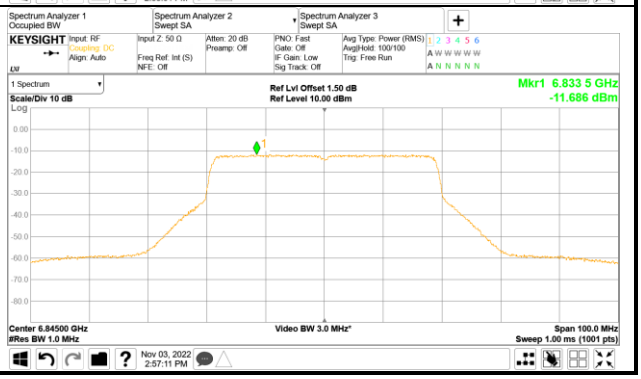
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

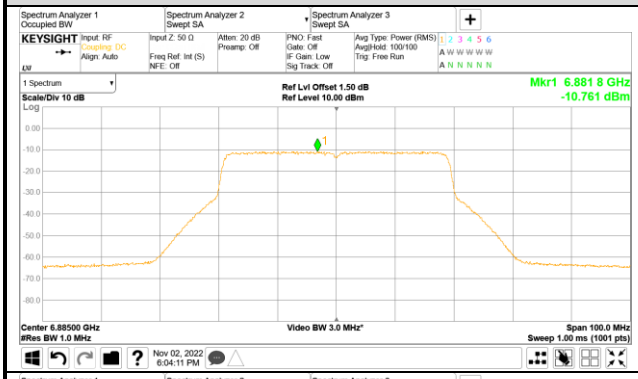
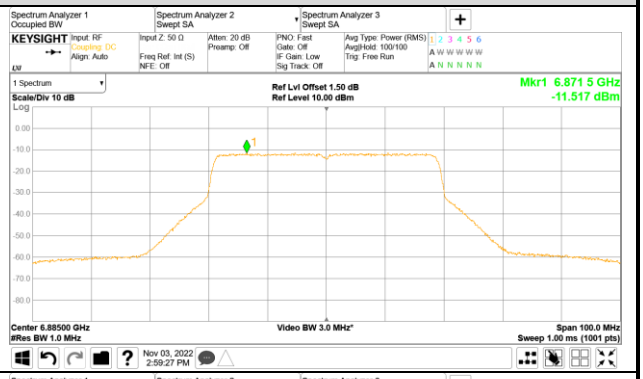
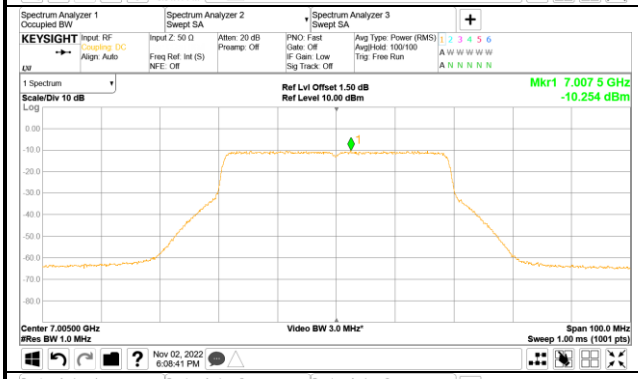
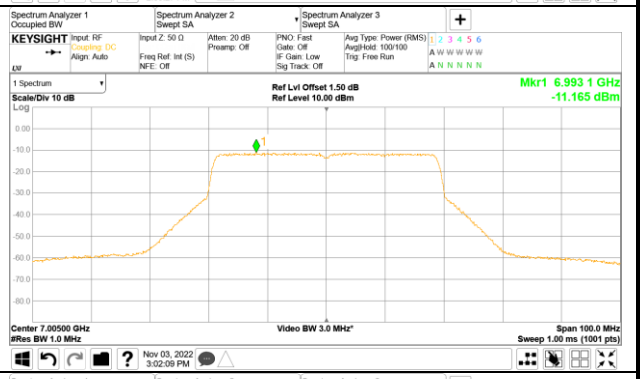
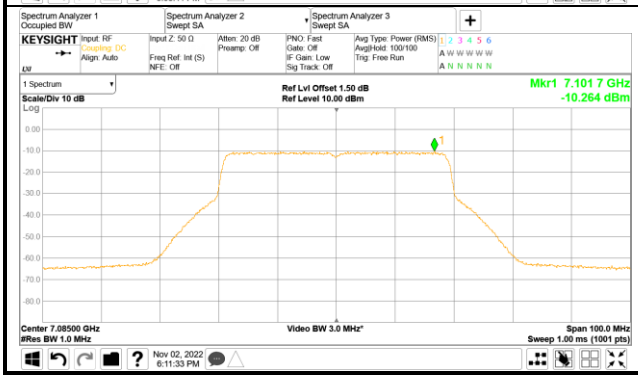
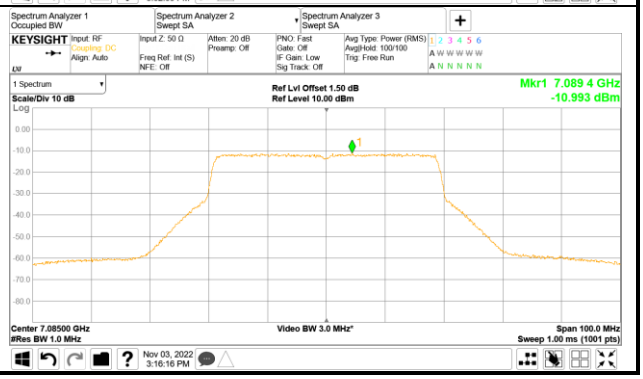
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

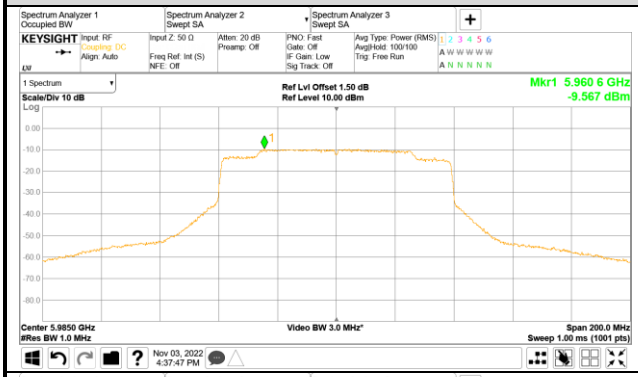
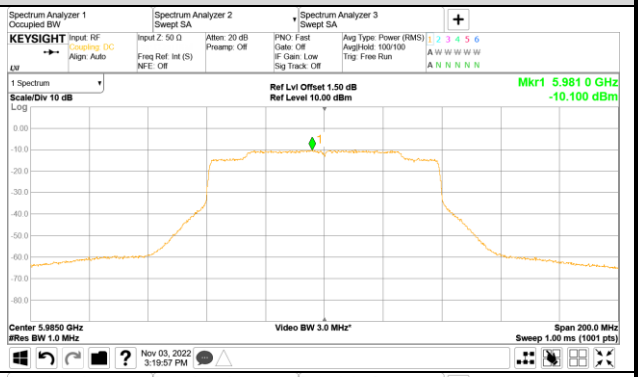
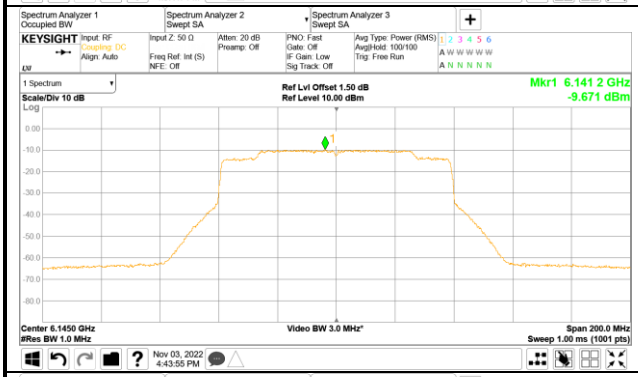
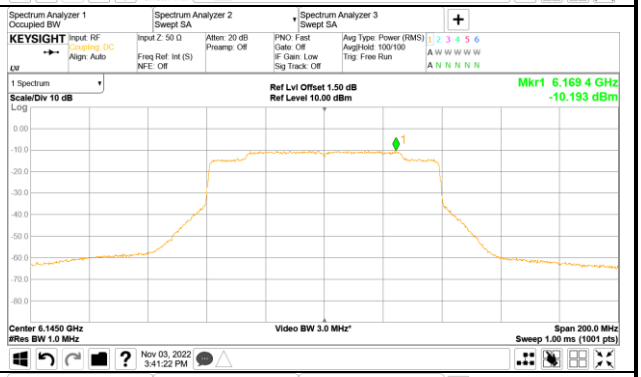
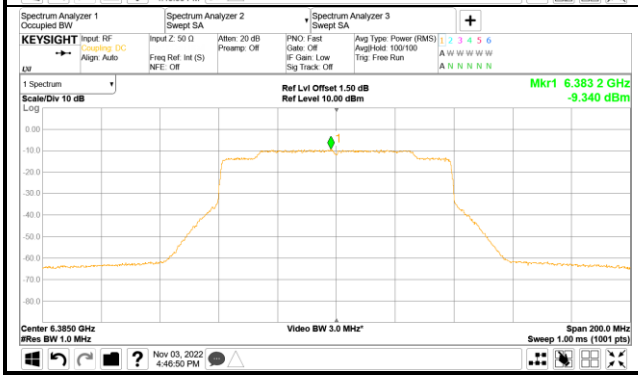
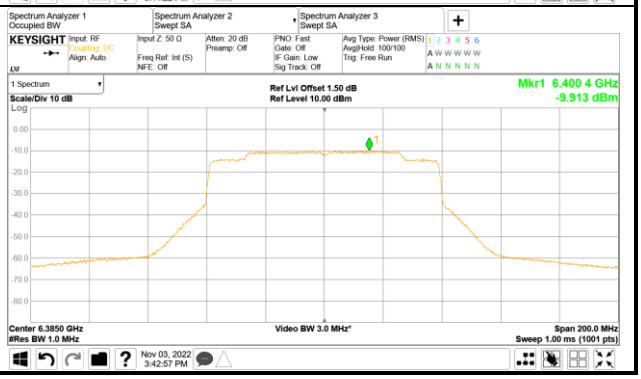
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

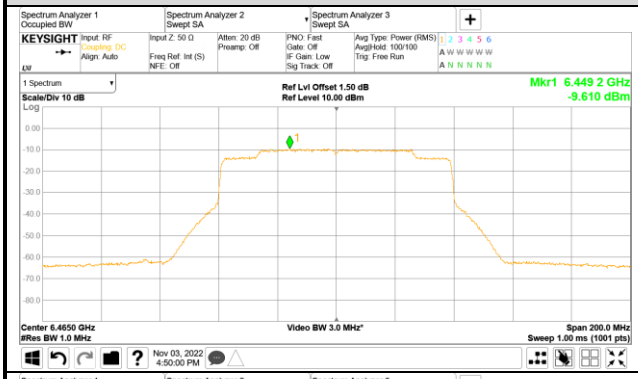
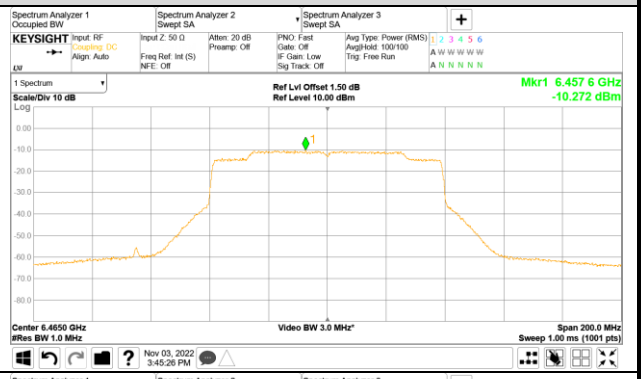
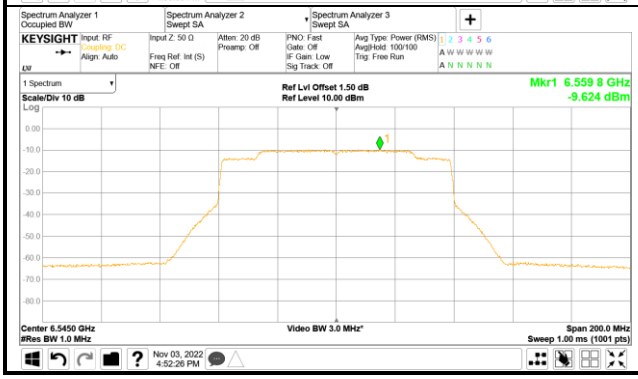
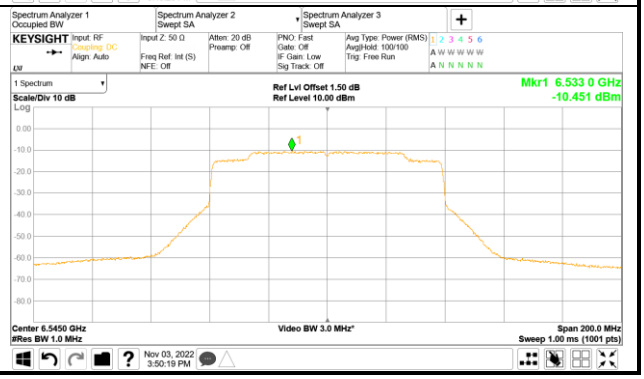
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

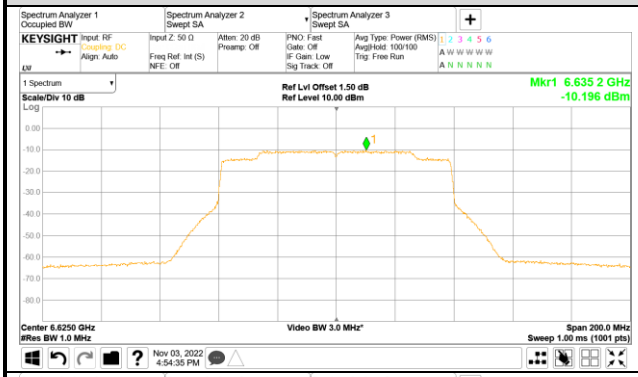
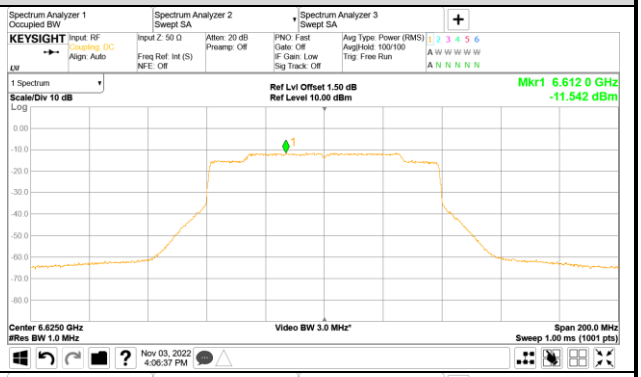
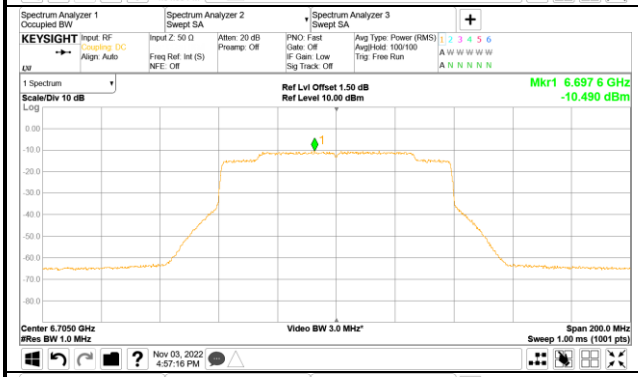
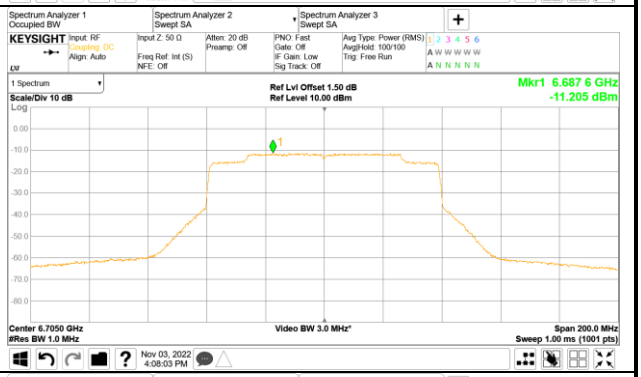
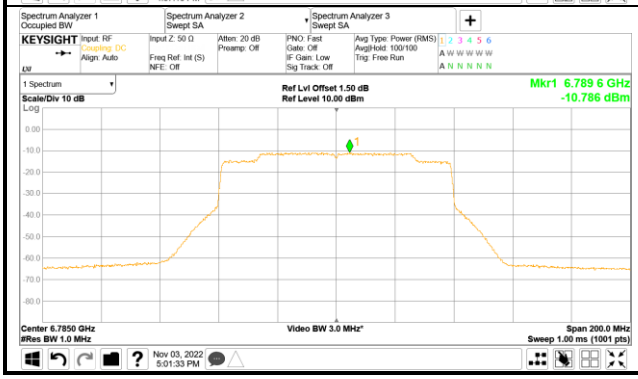
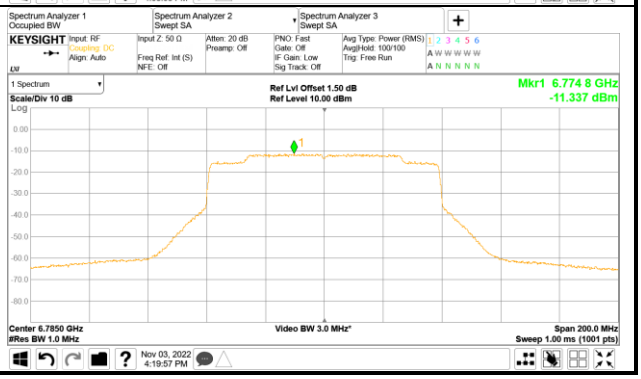
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

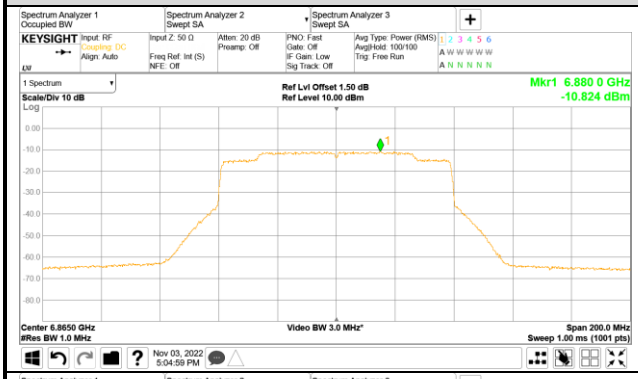
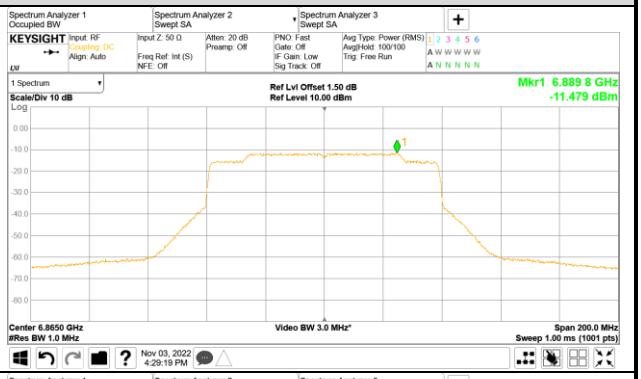
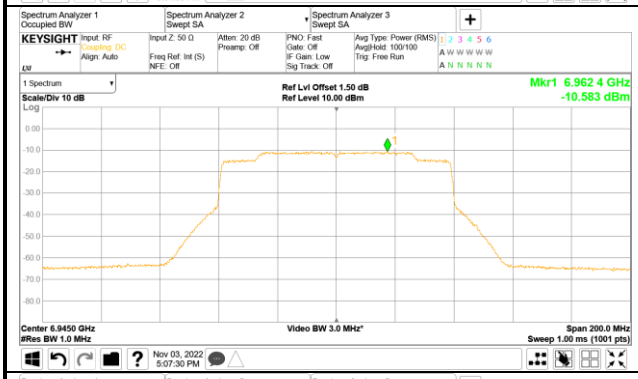
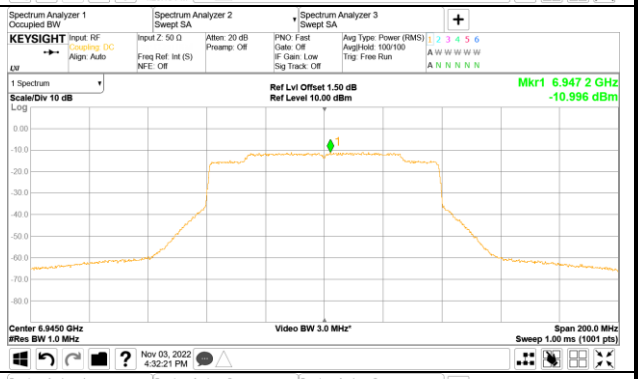
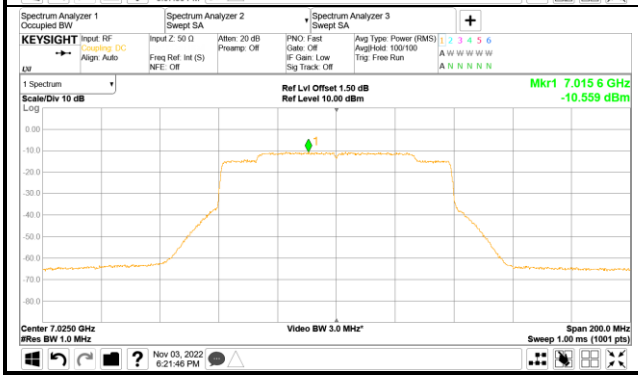
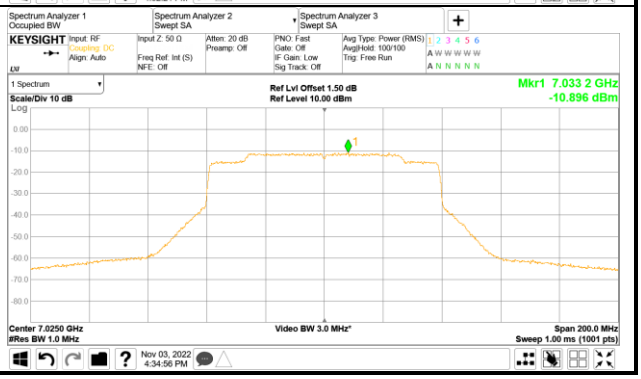
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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

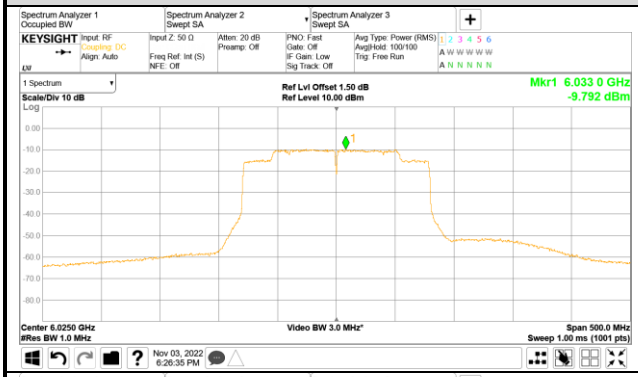
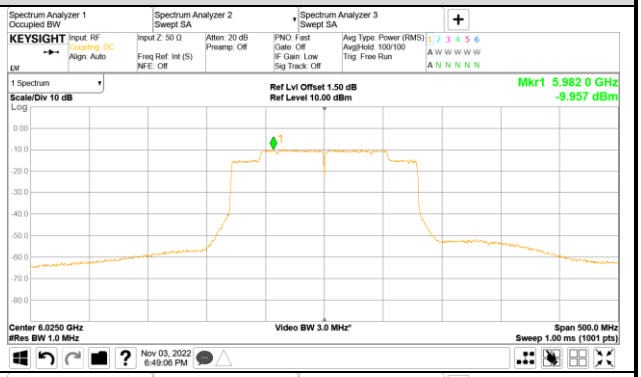
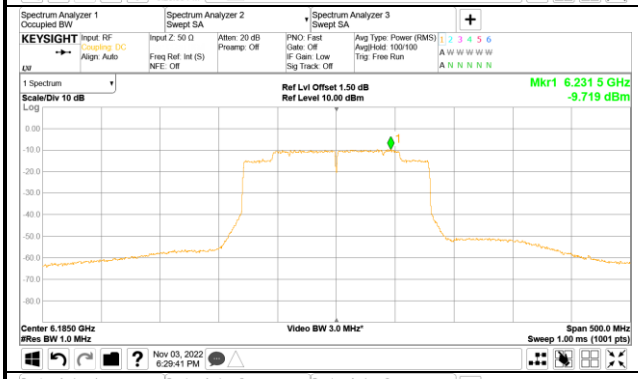
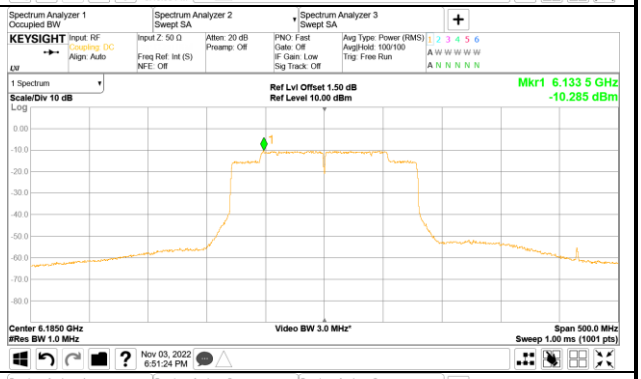
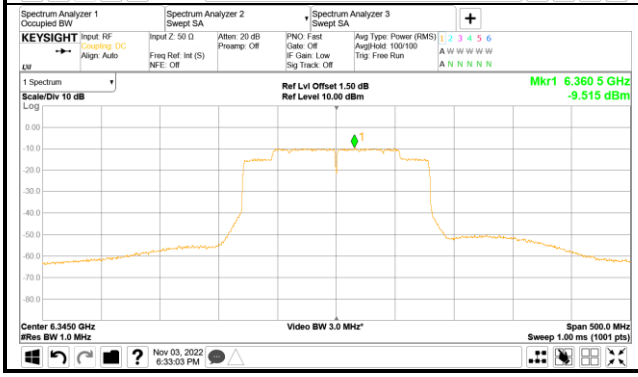
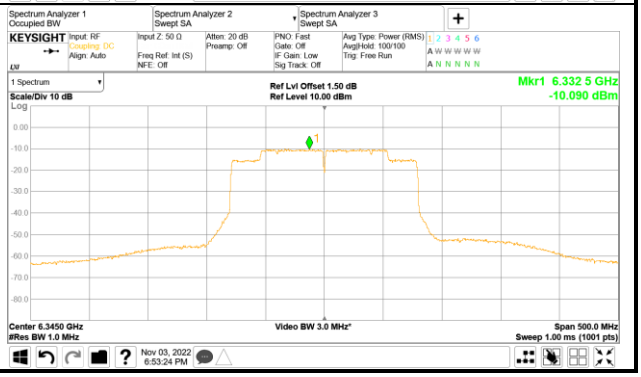
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

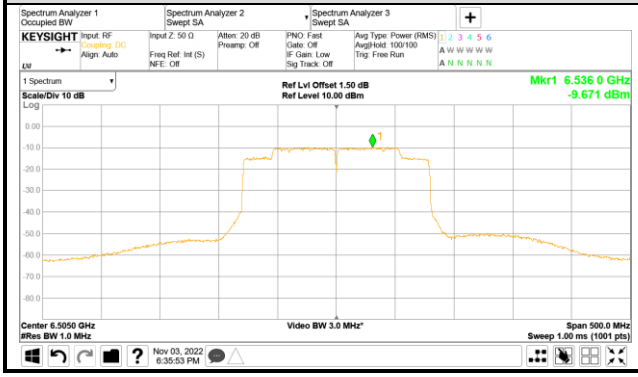
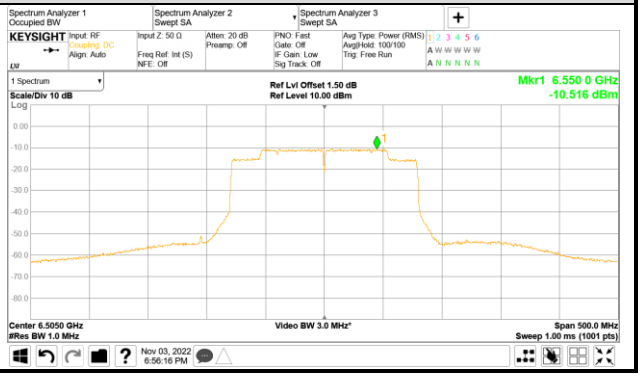
Tel: +886 2 26099301
Fax: +886 2 26099303

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

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

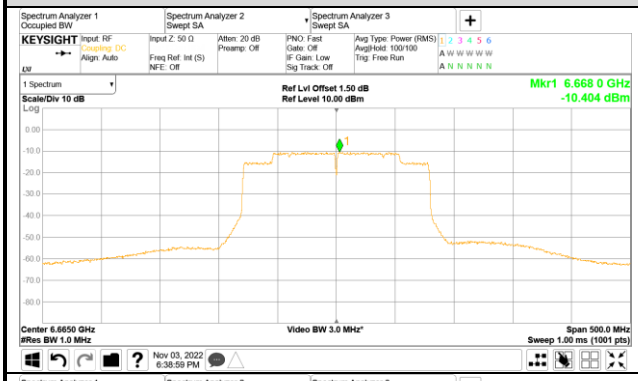
Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 5	U-NII Band 5
	
	
	

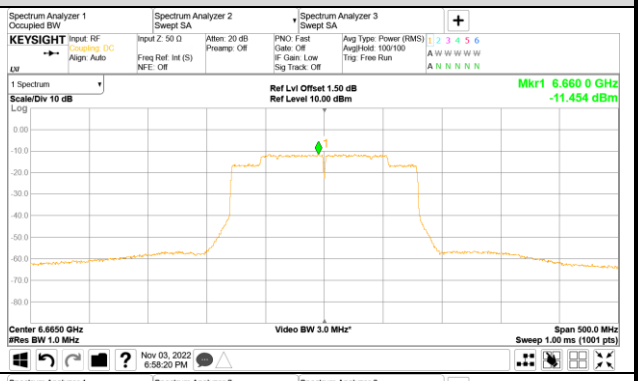
Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 6	U-NII Band 6
	

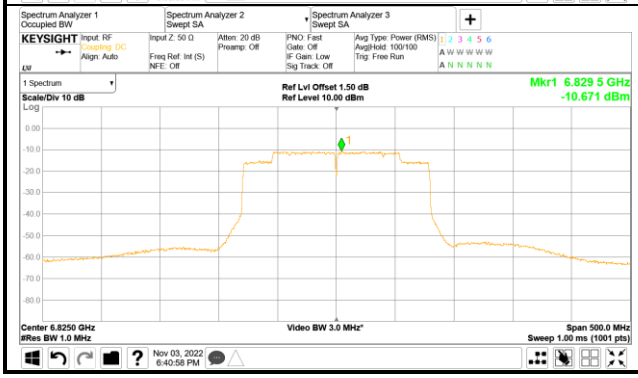
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

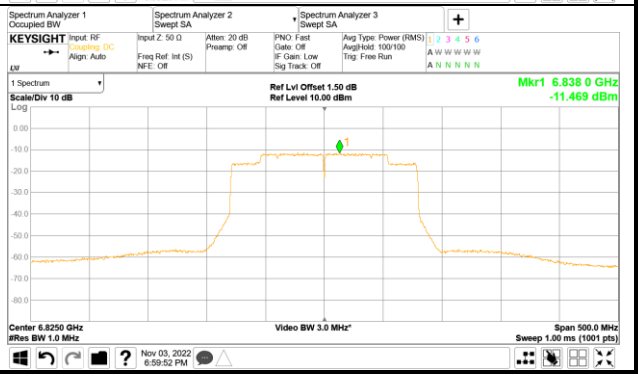
Tel: +886 2 26099301
Fax: +886 2 26099303

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

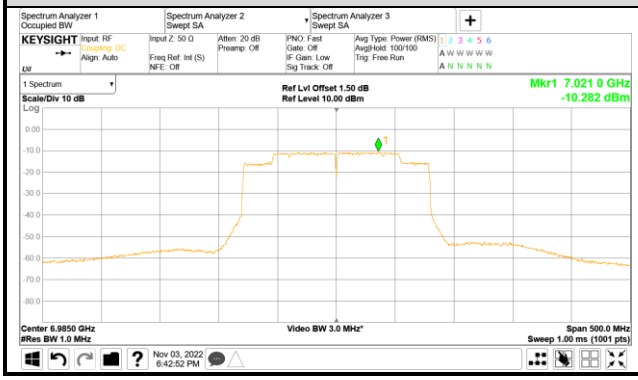


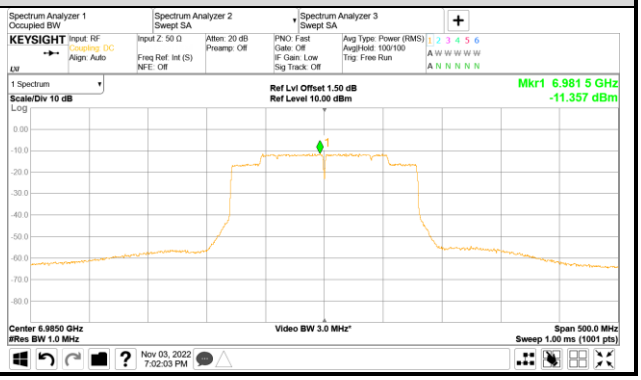






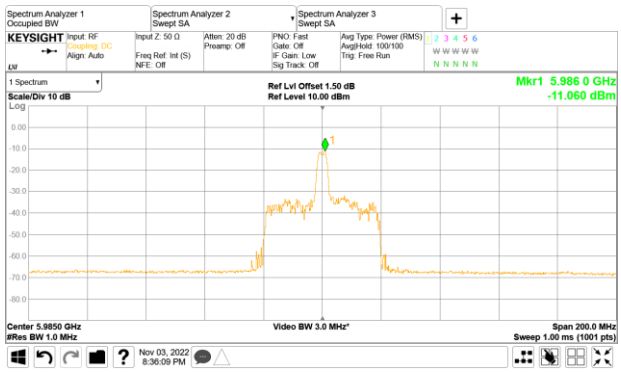
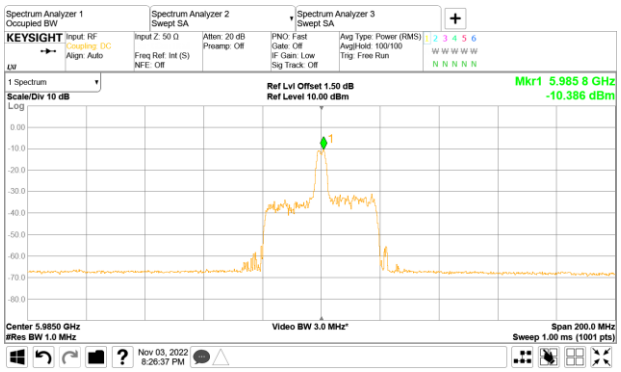
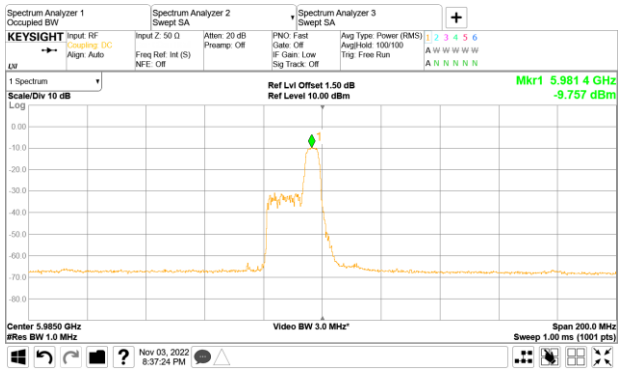
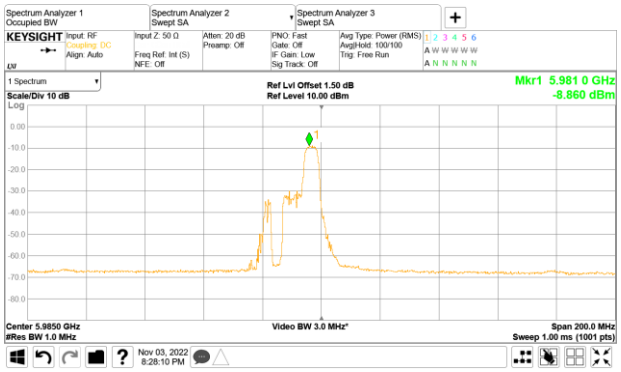
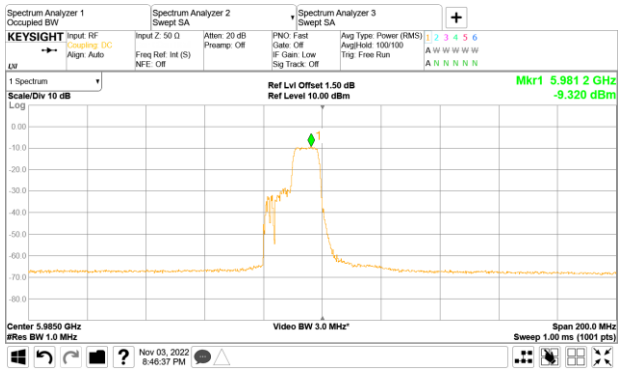
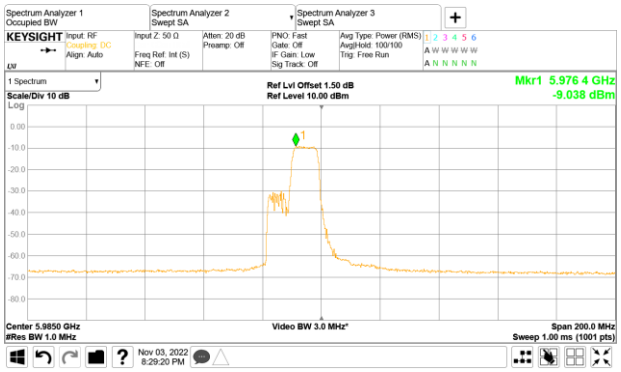
Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 8	U-NII Band 8





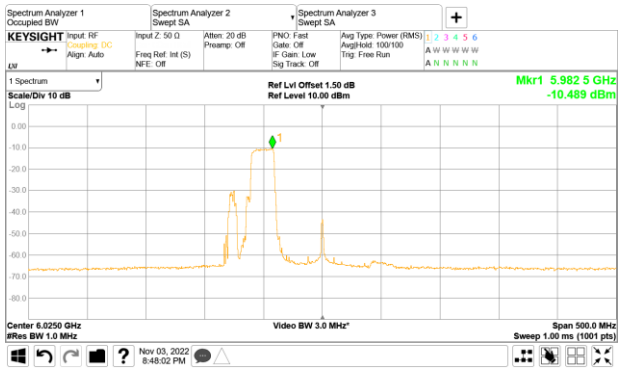
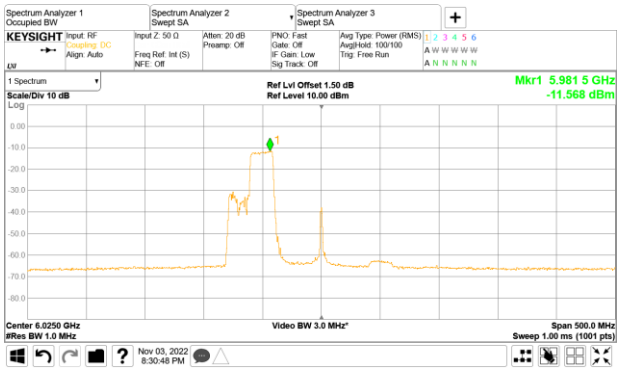
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

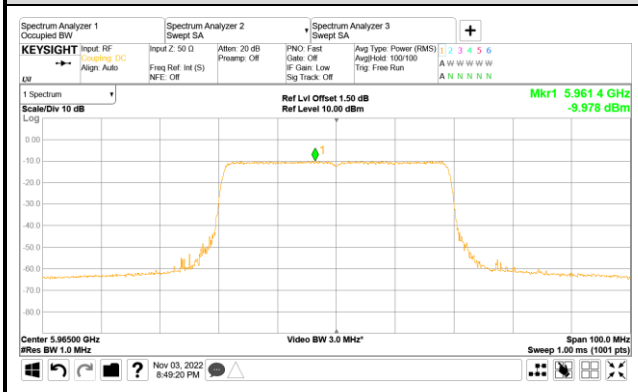
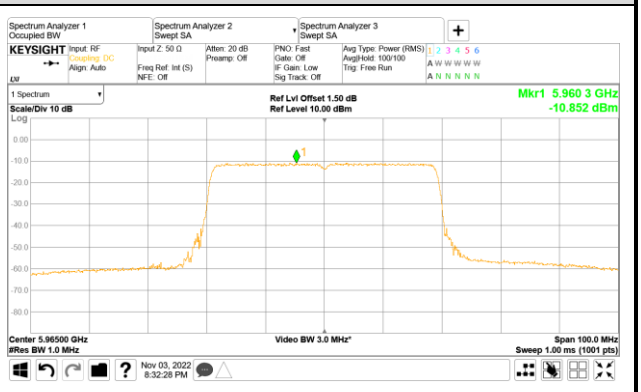
- OFDMA Modulation

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
	

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Tones: 242T	
802.11ax-HE160, RU Index: 62	
U-NII Band 5, Centre Frequency: 6025MHz	
AUX	Main
	

Tones: 484T	
802.11ax-HE40, RU Index: 65	
U-NII Band 6, Centre Frequency: 5965MHz	
AUX	Main
	

Tones: 996T	
802.11ax-HE160, RU Index: 67	
U-NII Band 5, Centre Frequency: 6185MHz	
AUX	Main