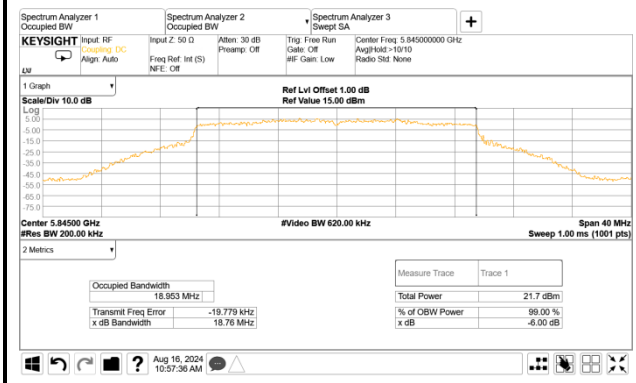
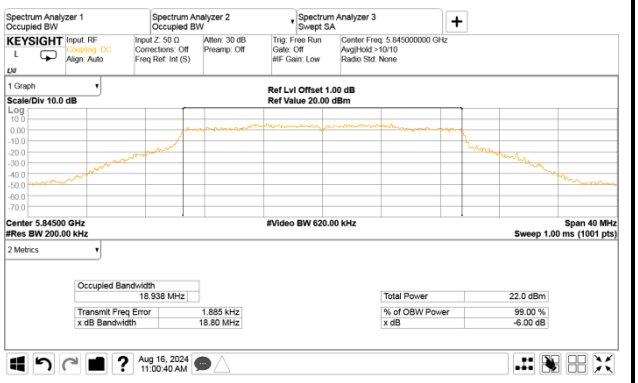
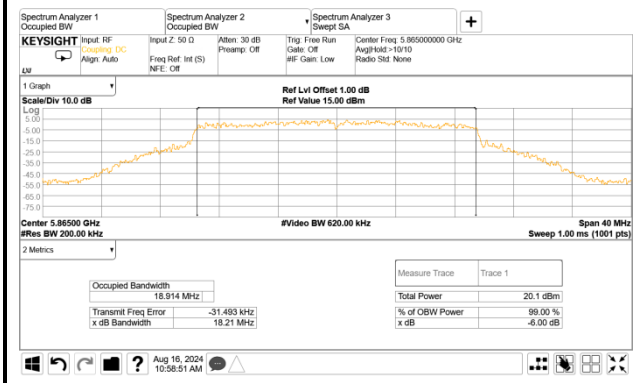
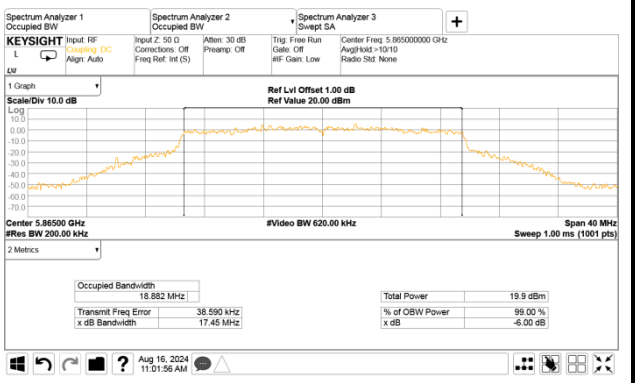
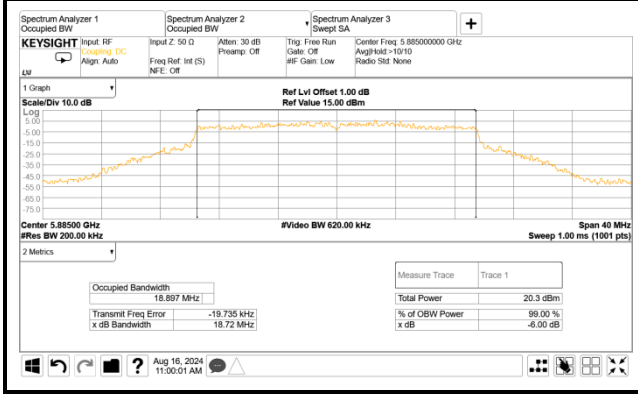
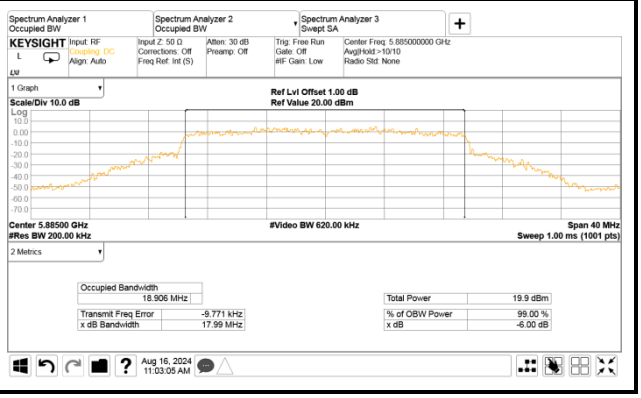
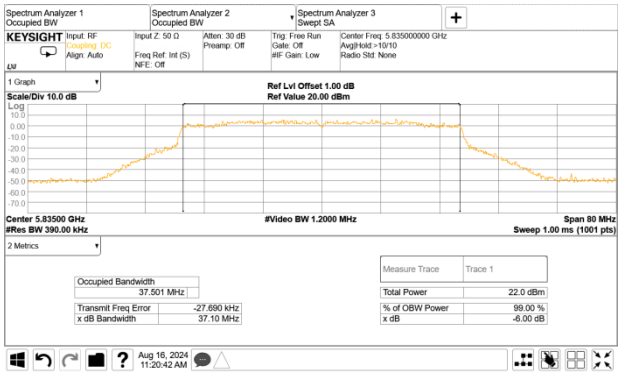
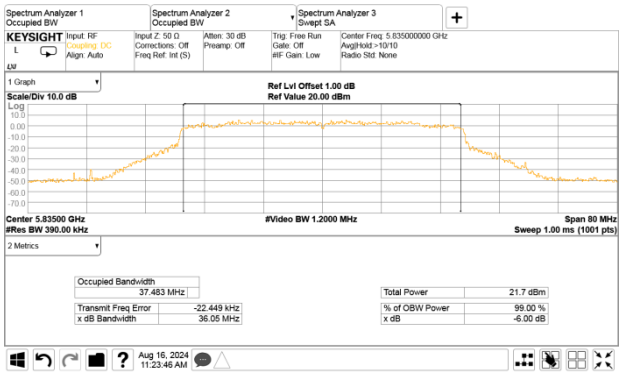
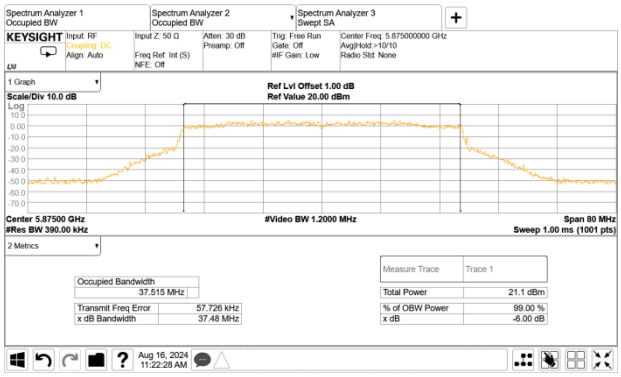
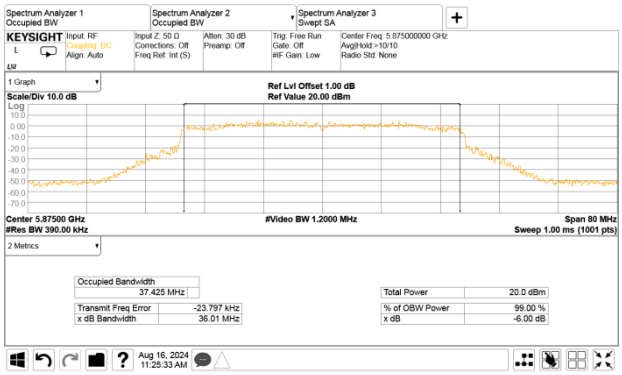
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

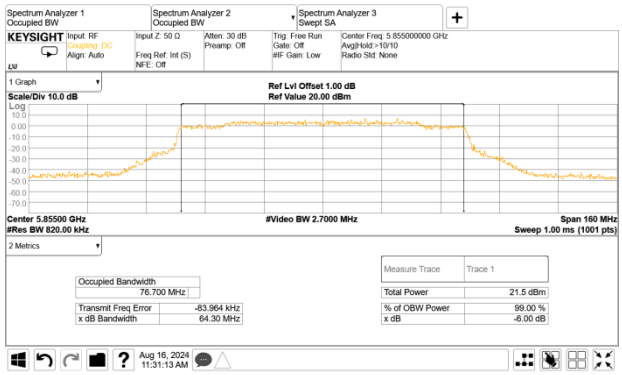
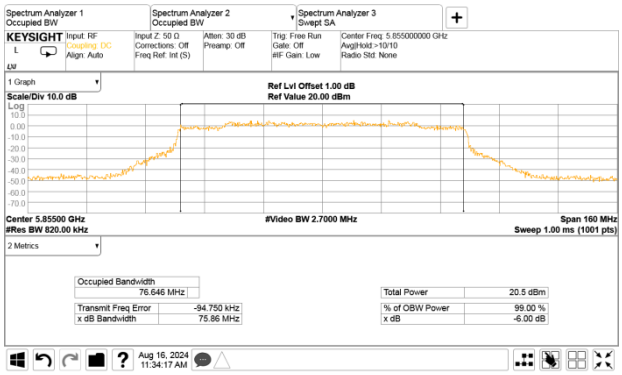
Tel: +886 2 26099301
Fax: +886 2 26099303

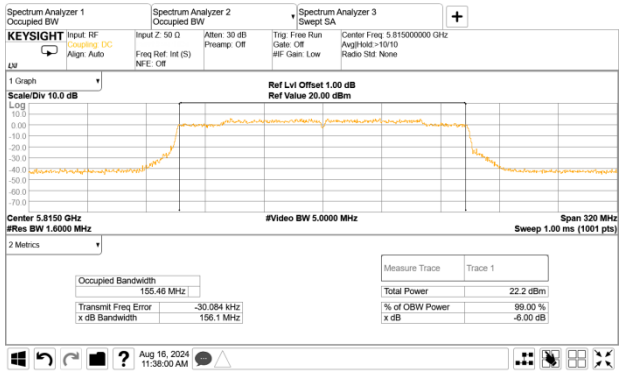
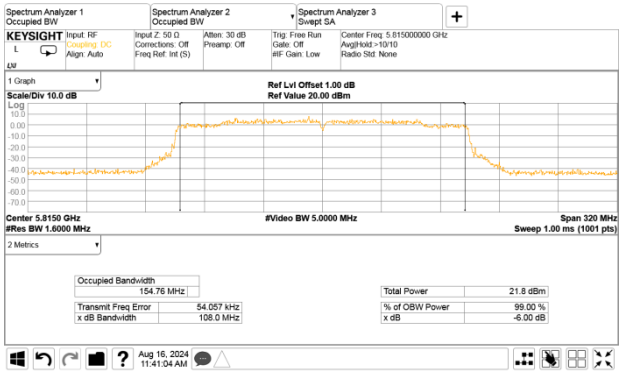
802.11ax-HE20	
AUX	Main
	
	
	

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

802.11ax-HE40	
AUX	Main
	
	

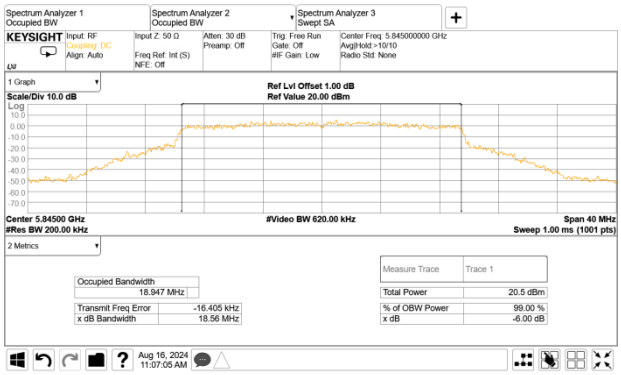
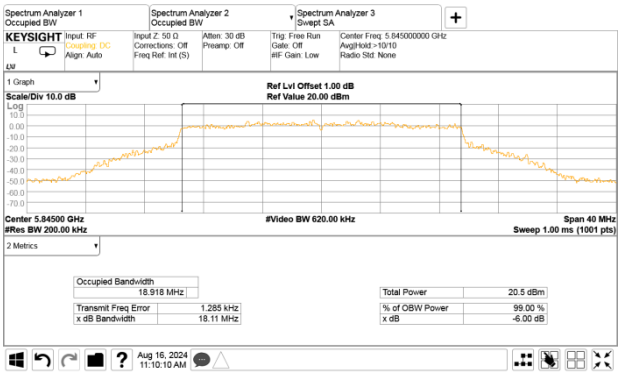
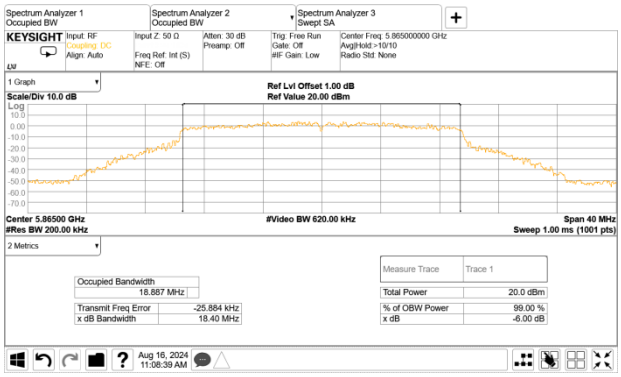
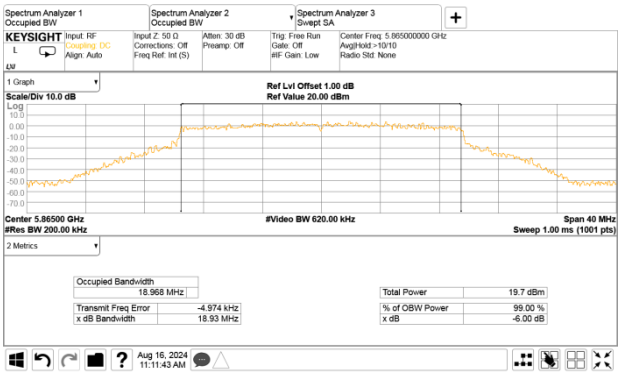
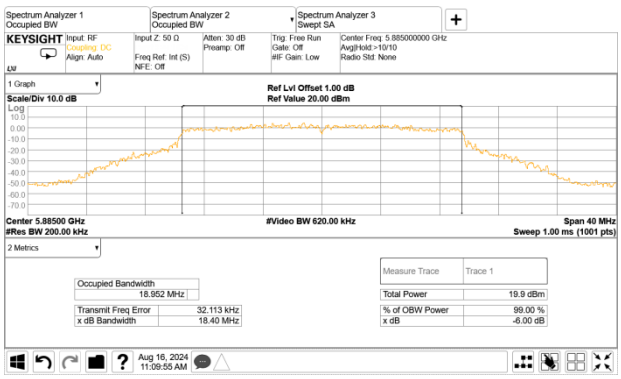
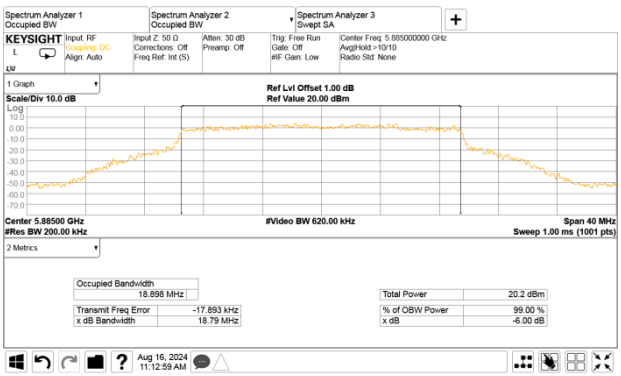
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

802.11ax-HE80	
AUX	Main
	

802.11ax-HE160	
AUX	Main
	

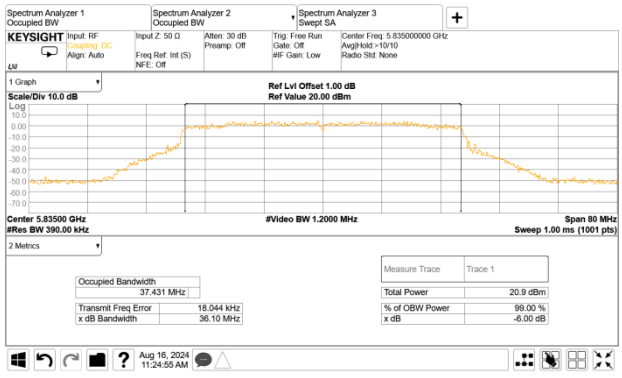
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

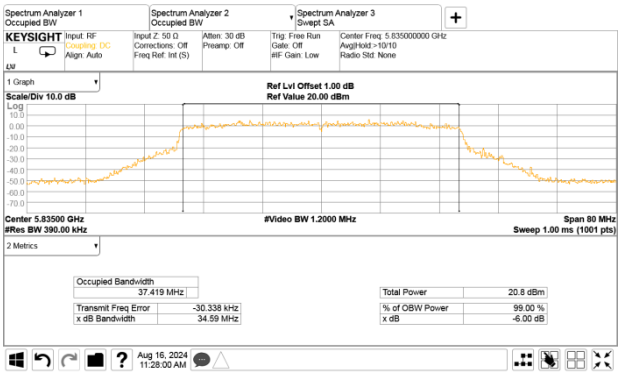
Tel: +886 2 26099301
Fax: +886 2 26099303

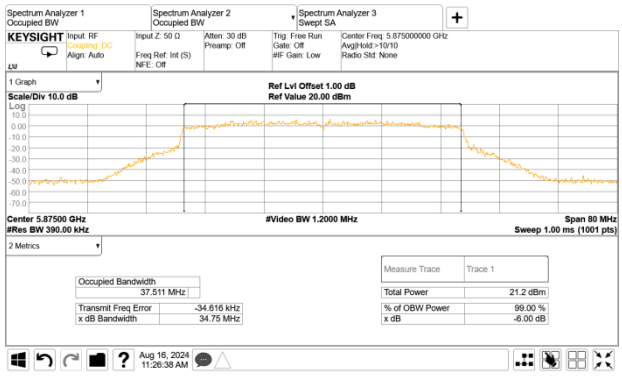
802.11be-EHT20	
AUX	Main
	
	
	

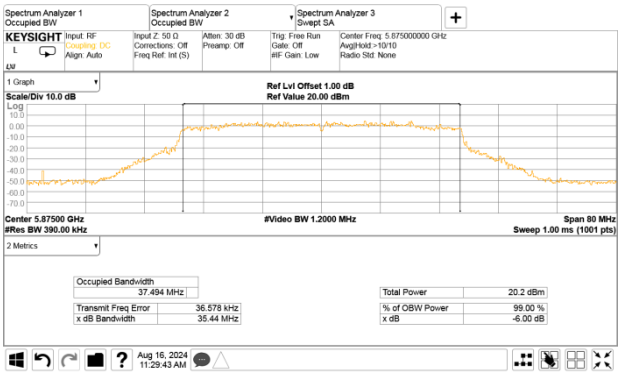
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

802.11be-EHT40	
AUX	Main



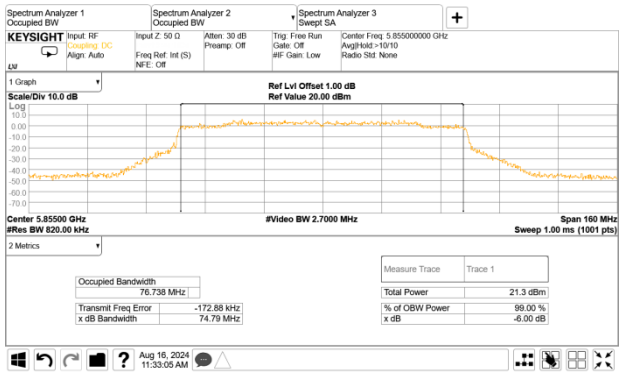
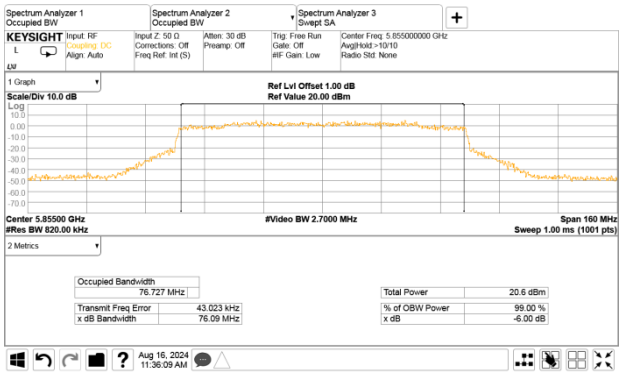


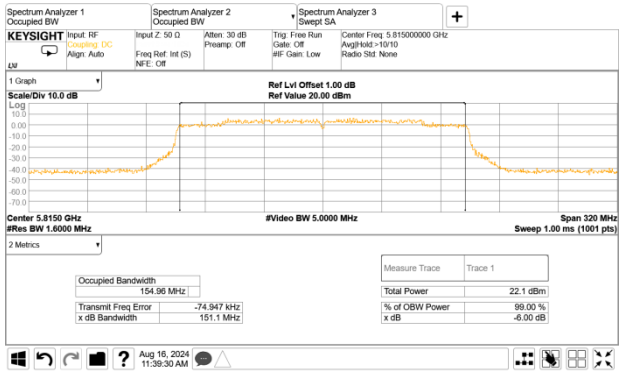
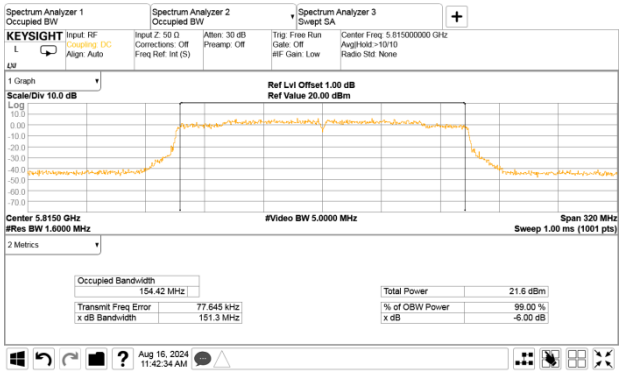




Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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

802.11be-EHT80	
AUX	Main
	

802.11be-EHT160	
AUX	Main
	

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

A.4 POWER SPECTRAL DENSITY

Test Date	2024/08/22 ~ 23	Temp./Hum.	24 ~ 25℃/48 ~ 55%
Cable Loss	1.00dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.4.1 Power Spectral Density Result

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Antenna Gain (dBi)		Max. Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main		AUX	Main		
802.11a	4	5845	3.341	3.364	0.101	2.1	0.1	5.542	14dBm/MHz (E.I.R.P.)
		5865	3.397	3.216		2.1	0.1	5.598	
		5885	3.455	3.468		2.1	0.1	5.656	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 4	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
802.11n-HT20	4	5845	3.301	3.034	N/A	1.21	7.390	14dBm/MHz (E.I.R.P.)
		5865	3.082	2.984		1.21	7.254	
		5885	3.301	3.085		1.21	7.415	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) (EIRP) = Max of each PSD (dBm/1MHz) (AUX or Main) + Antenna Gain (dBi) + Duty Cycle Factor(dB) when duty cycle is less than 98%.
3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.
4. 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 = 10 log[$(10^{0.1/10} + 10^{2.1/10})/2$]= 1.21dBi
   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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11n-HT40	4	5835	-1.323	-0.275	N/A	1.21	3.453	14dBm/MHz (E.I.R.P.)
		5875	-1.991	-0.316		1.21	3.147	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11ac-VHT80	4	5855	-4.793	-2.624	N/A	1.21	0.646	14dBm/MHz (E.I.R.P.)

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11ac-VHT160	4	5815	-6.859	-5.721	N/A	1.21	-2.033	14dBm/MHz (E.I.R.P.)

Note :1. All results have been included cable loss.

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.
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 = 10 log[($10^{0.1/10}$ +$10^{2.1/10}$)/2]= 1.21dBi
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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11ax-HE20	4	5845	2.787	2.846	N/A	1.21	7.037	14dBm/MHz (E.I.R.P.)
		5865	2.790	2.801		1.21	7.016	
		5885	3.063	3.087		1.21	7.295	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11ax-HE40	4	5835	-1.588	-0.273	N/A	1.21	3.339	14dBm/MHz (E.I.R.P.)
		5875	-1.995	-0.598		1.21	2.980	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11ax-HE80	4	5855	-4.841	-2.586	N/A	1.21	0.652	14dBm/MHz (E.I.R.P.)

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11ax-HE160	4	5815	-7.106	-5.846	0.092	1.21	-2.118	14dBm/MHz (E.I.R.P.)

Note :1. All results have been included cable loss.

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.
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 = 10 log[($10^{0.1/10} + 10^{2.1/10}$)/2]= 1.21dBi
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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11be-HHT20	4	5845	2.910	2.780	N/A	1.21	7.066	14dBm/MHz (E.I.R.P.)
		5865	2.847	2.957		1.21	7.123	
		5885	2.835	2.954		1.21	7.115	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11be-HHT40	4	5835	-1.519	-0.609	N/A	1.21	3.180	14dBm/MHz (E.I.R.P.)
		5875	-1.957	-0.452		1.21	3.081	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11be-HHT80	4	5855	-4.936	-2.586	N/A	1.21	0.616	14dBm/MHz (E.I.R.P.)

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
802.11be-HHT160	4	5815	-6.883	-5.872	0.092	1.21	-2.128	14dBm/MHz (E.I.R.P.)

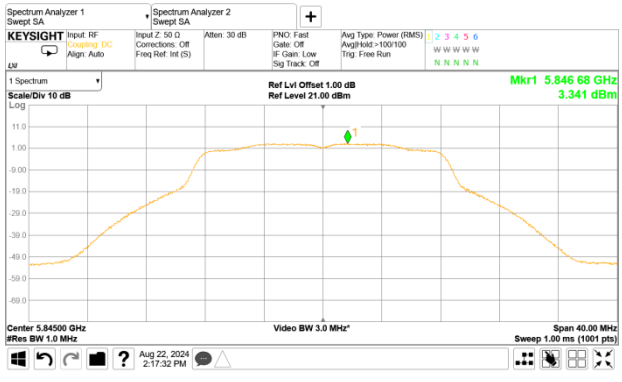
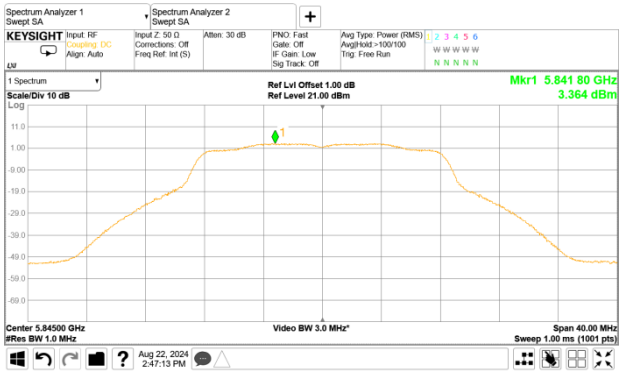
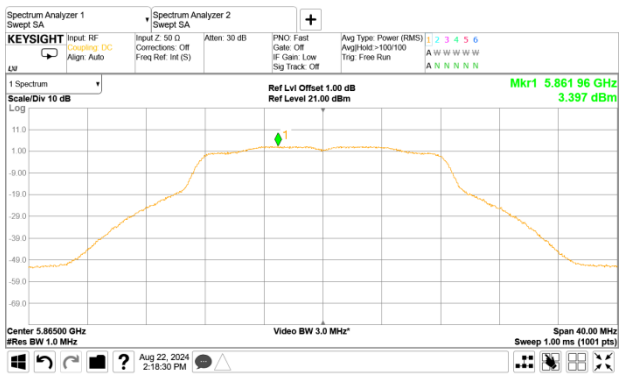
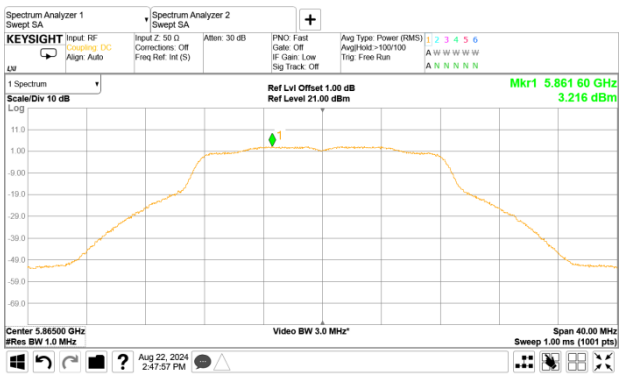
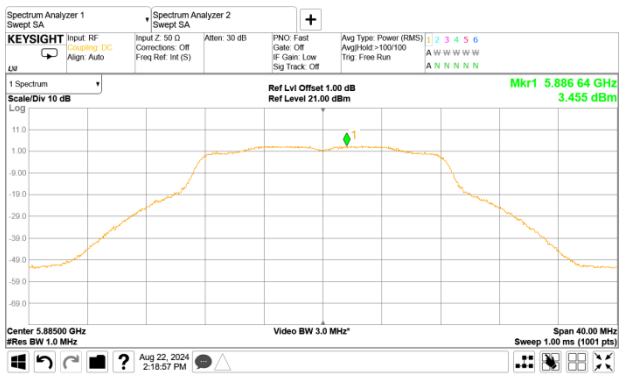
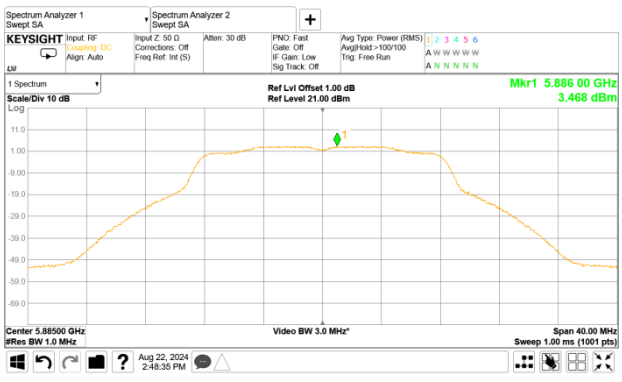
Note :1. All results have been included cable loss.

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.
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 = 10 log[($10^{0.1/10}$ +$10^{2.1/10}$)/2]= 1.21dBi
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

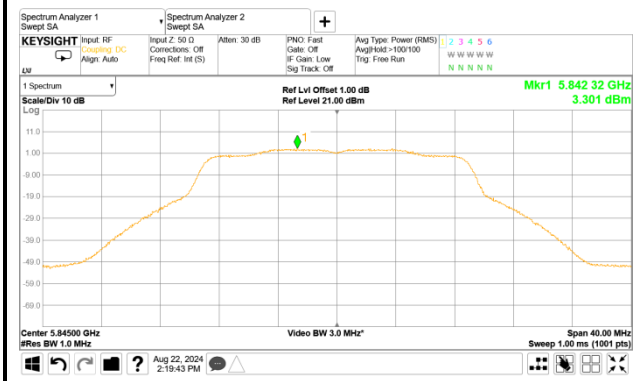
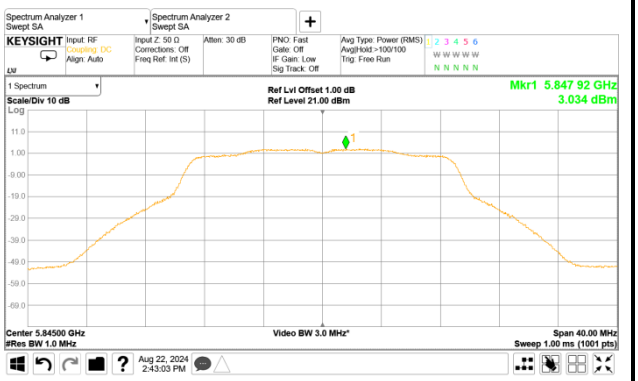
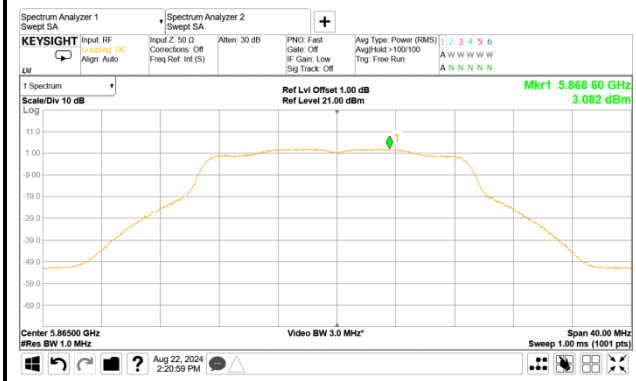
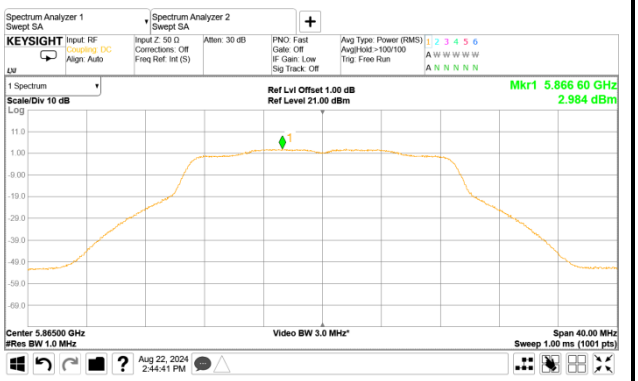
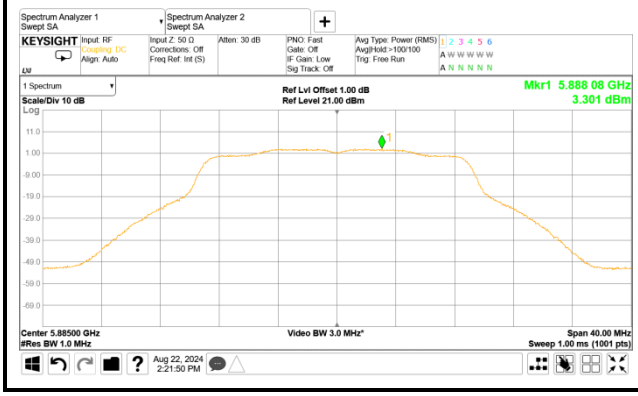
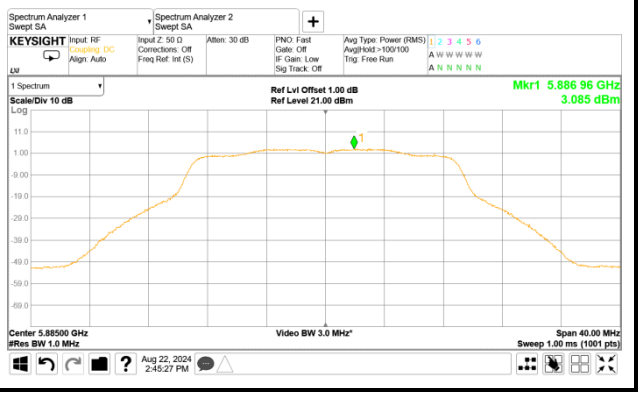
Tel: +886 2 26099301
Fax: +886 2 26099303

A.4.2 Measurement Plots

802.11a	
AUX	Main
	
	
	

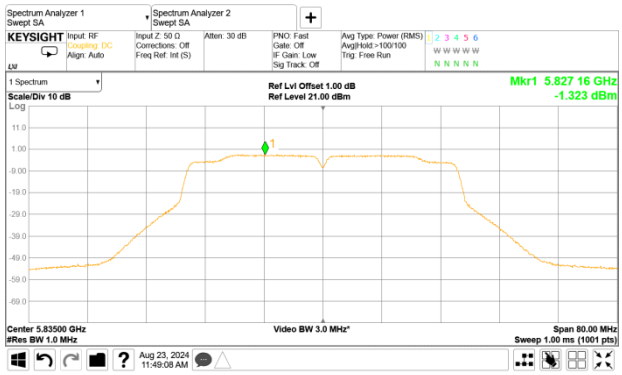
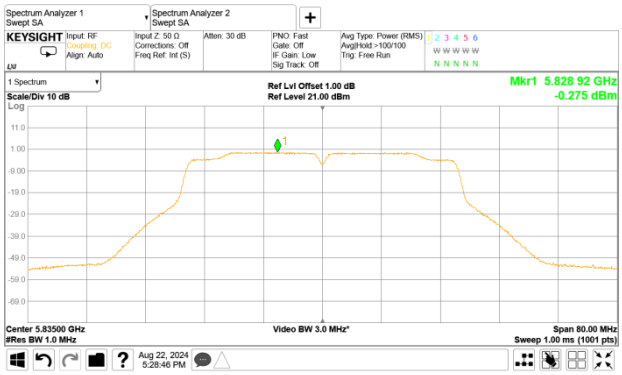
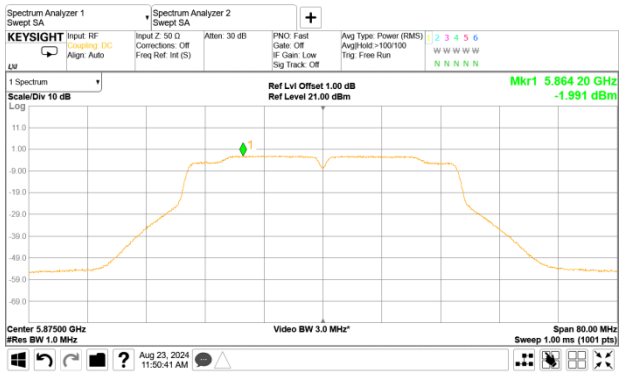
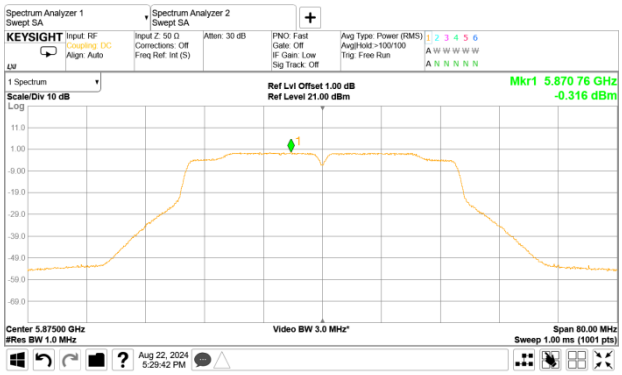
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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

802.11n-HT20	
AUX	Main
	
	
	

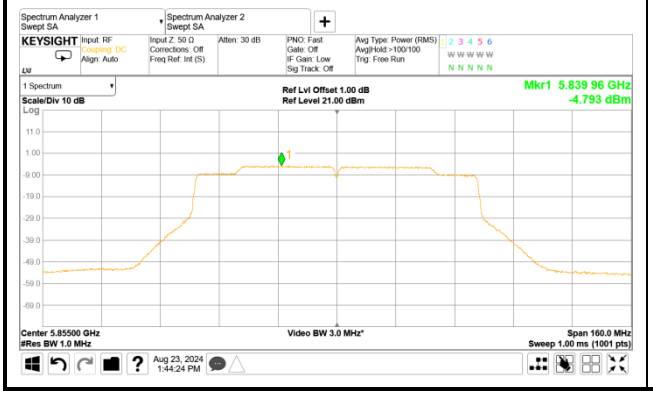
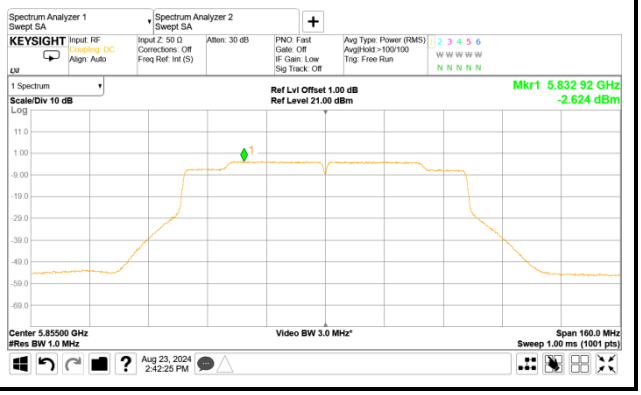
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

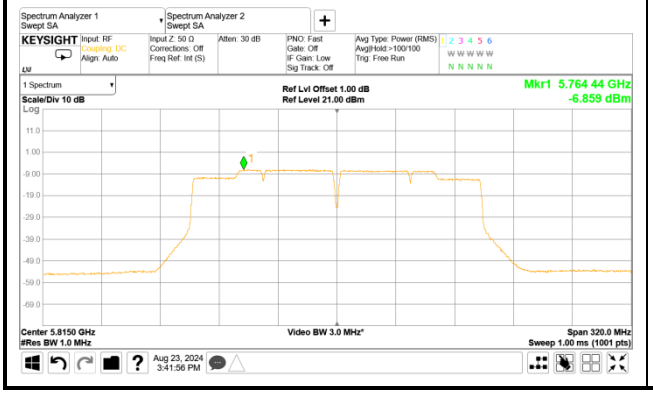
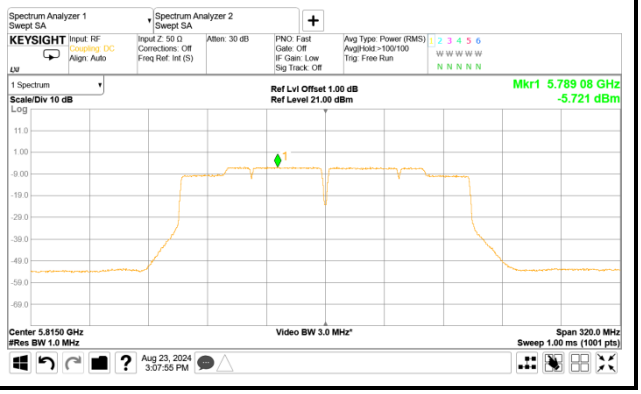
Tel: +886 2 26099301
Fax: +886 2 26099303

802.11n-HT40	
AUX	Main
	
	

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

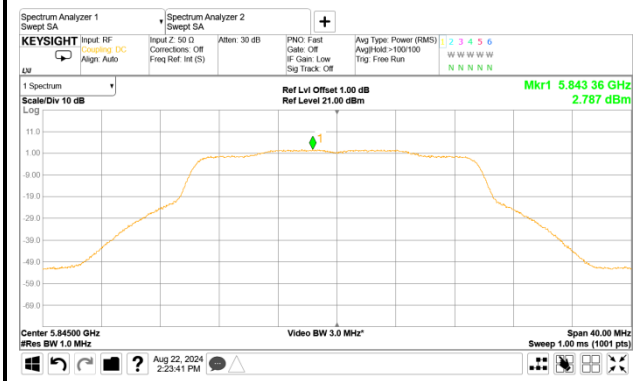
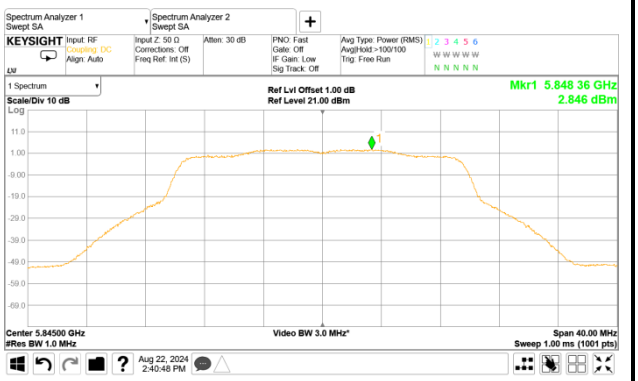
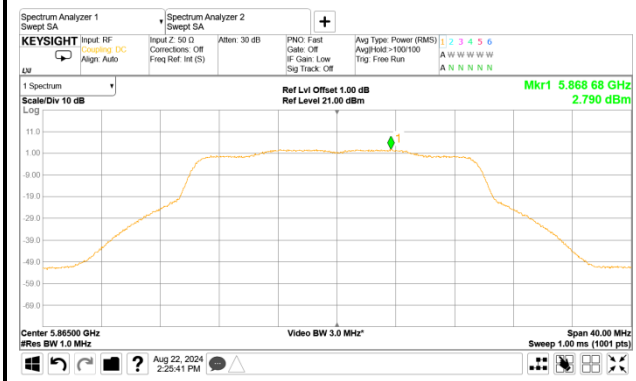
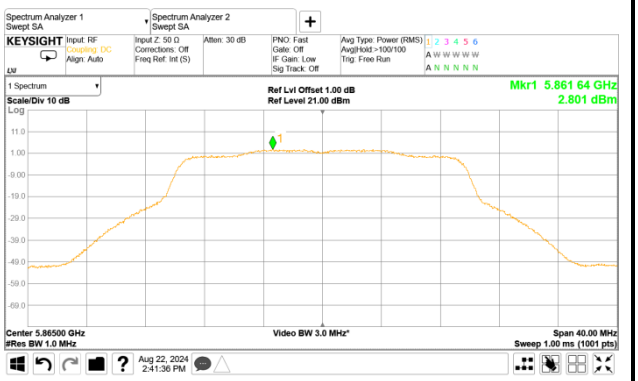
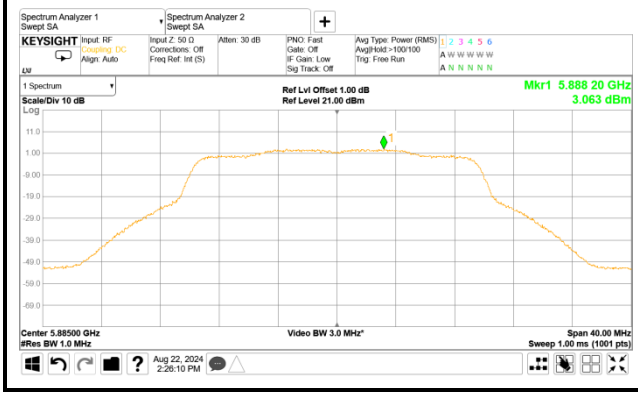
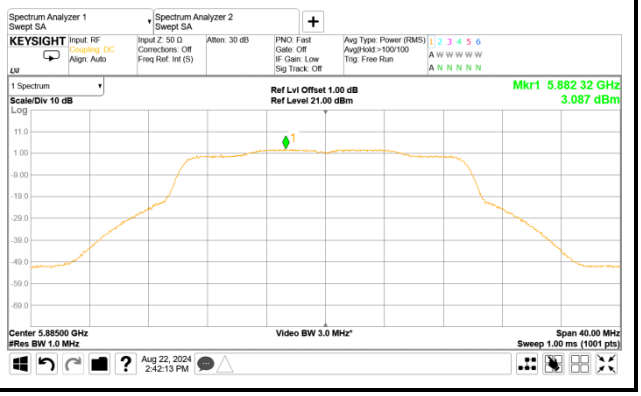
Tel: +886 2 26099301
Fax: +886 2 26099303

802.11ac-VHT80	
AUX	Main
	

802.11ac-VHT60	
AUX	Main
	

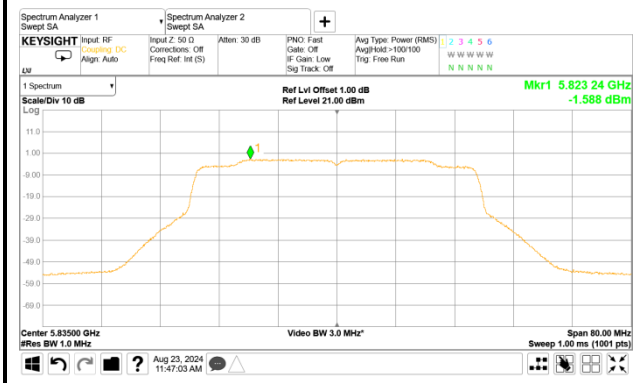
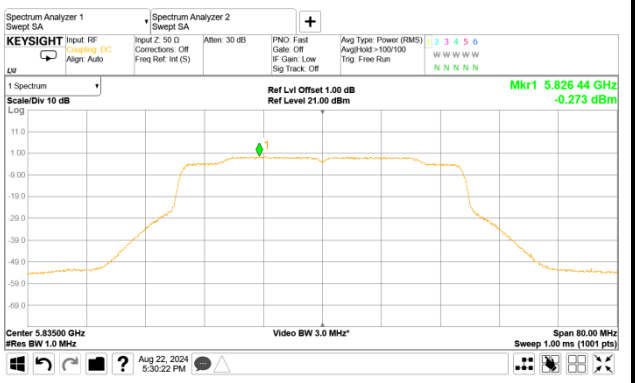
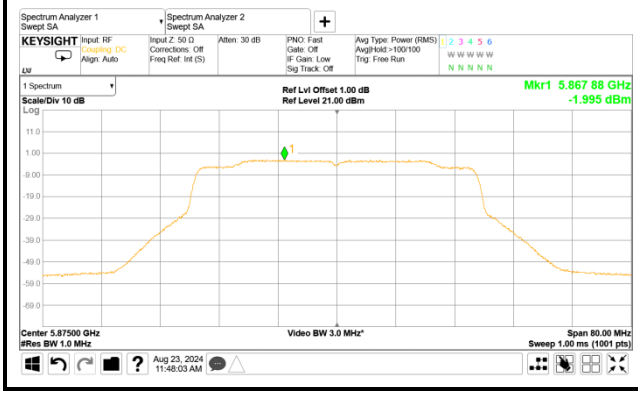
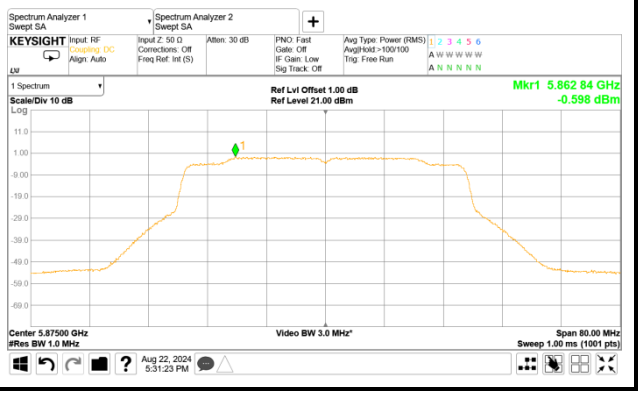
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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

802.11ax-HE20	
AUX	Main
	
	
	

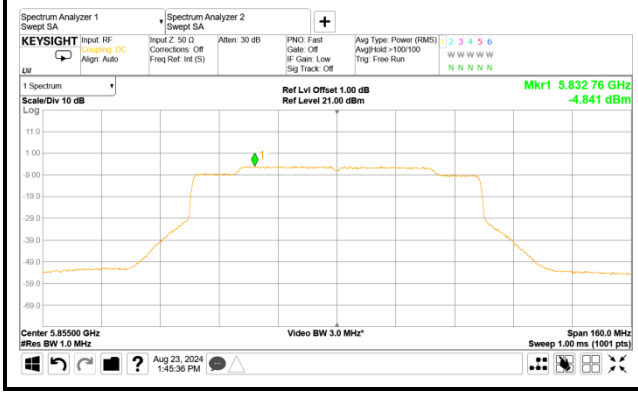
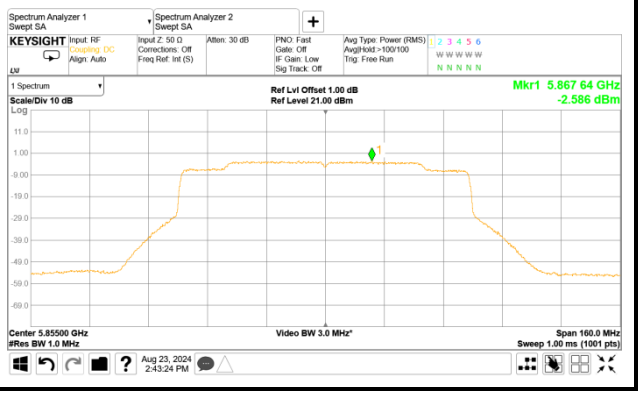
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

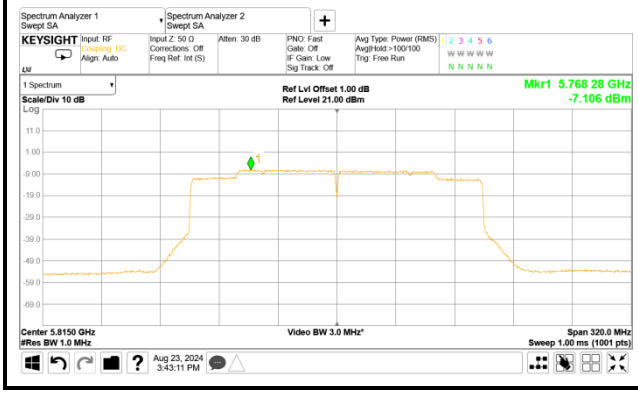
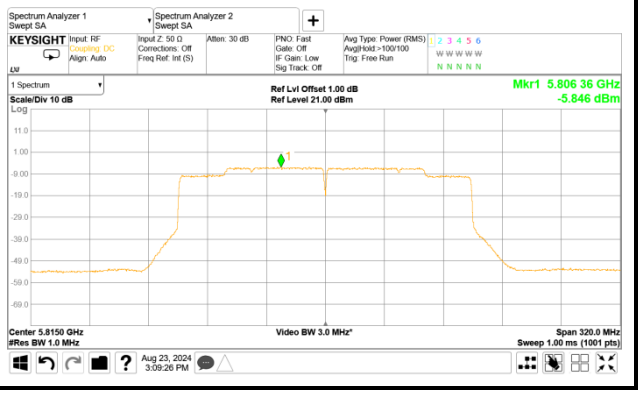
Tel: +886 2 26099301
Fax: +886 2 26099303

802.11ax-HE40	
AUX	Main
	
	

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

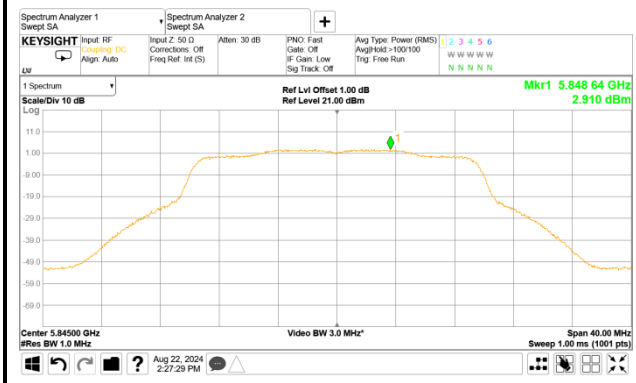
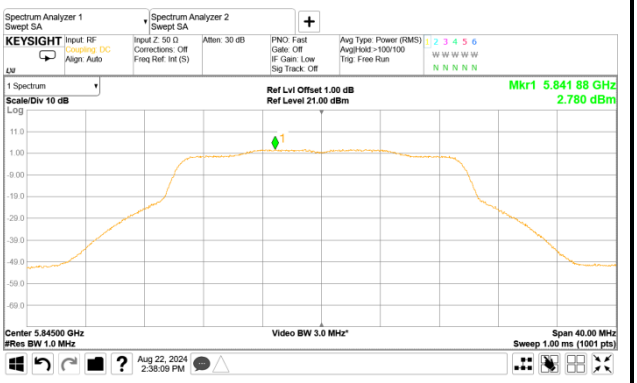
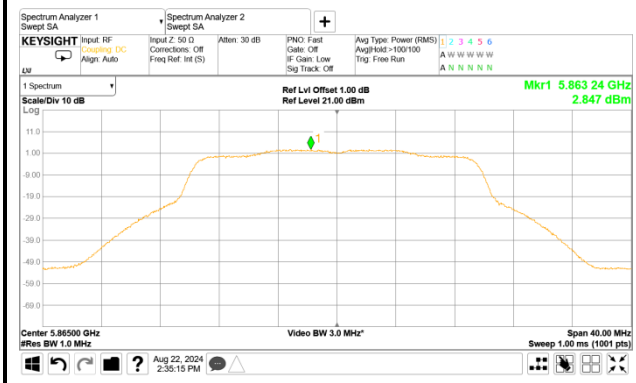
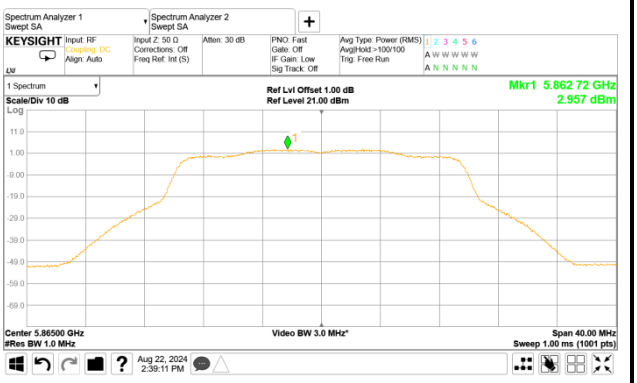
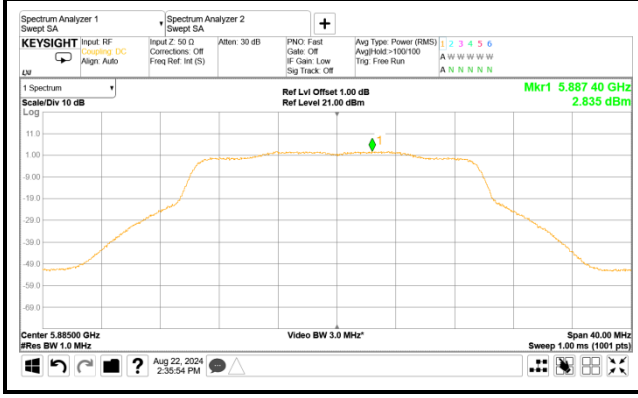
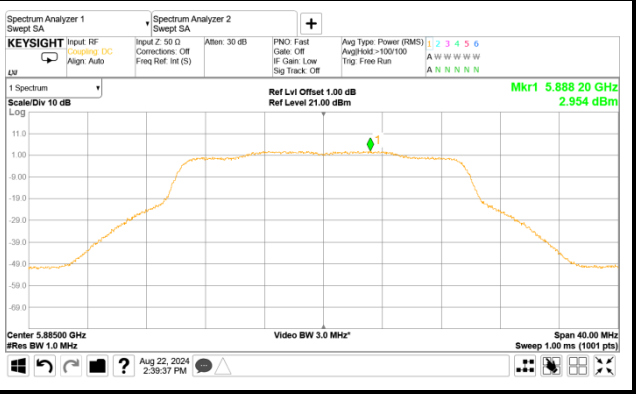
Tel: +886 2 26099301
Fax: +886 2 26099303

802.11ax-HE80	
AUX	Main
	

802.11ax-HE160	
AUX	Main
	

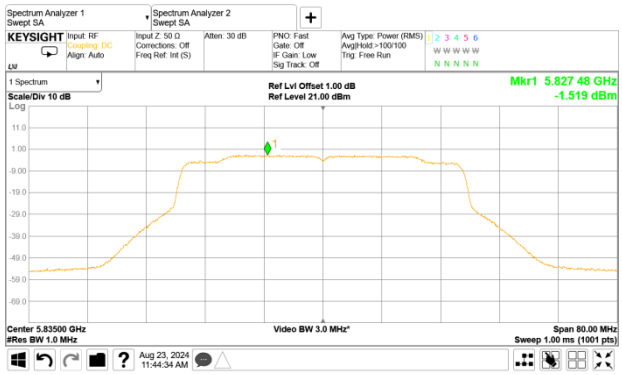
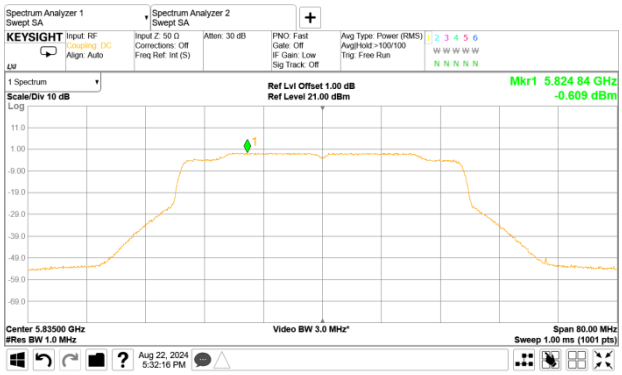
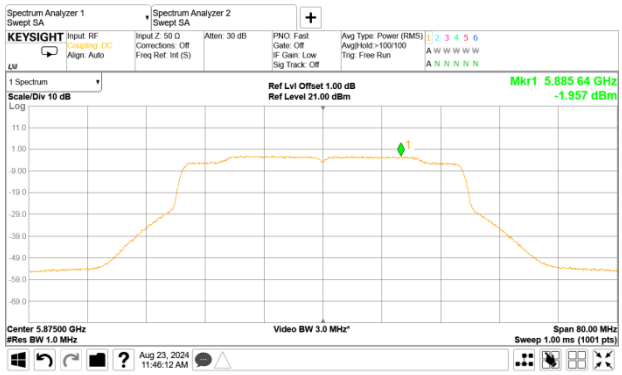
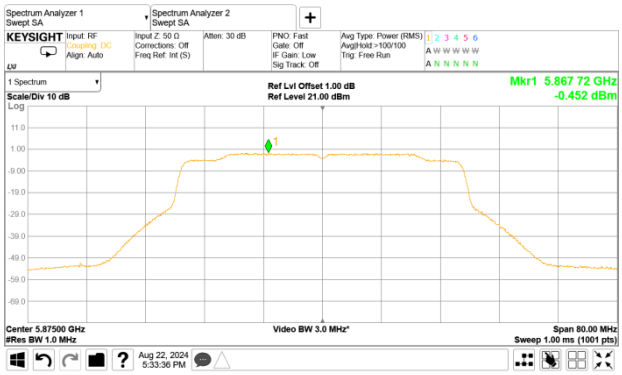
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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

802.11be-EHT20	
AUX	Main
	
	
	

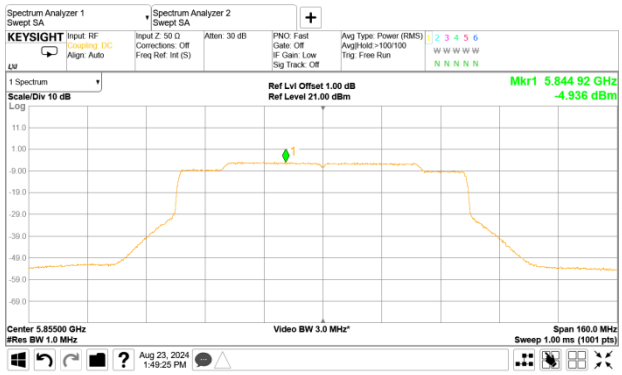
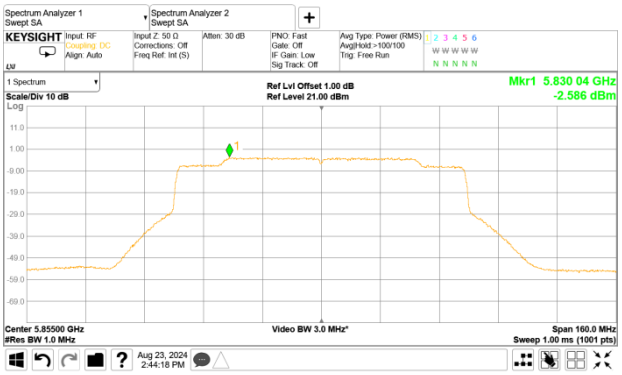
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

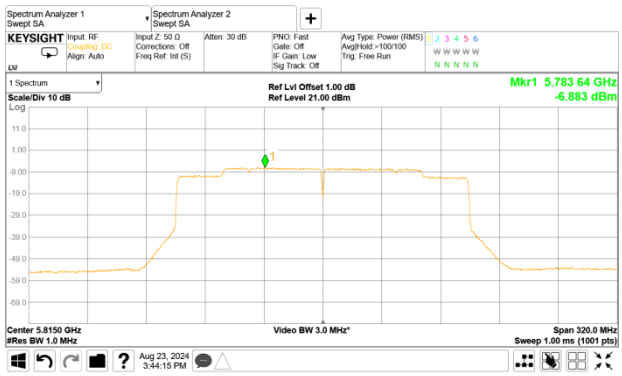
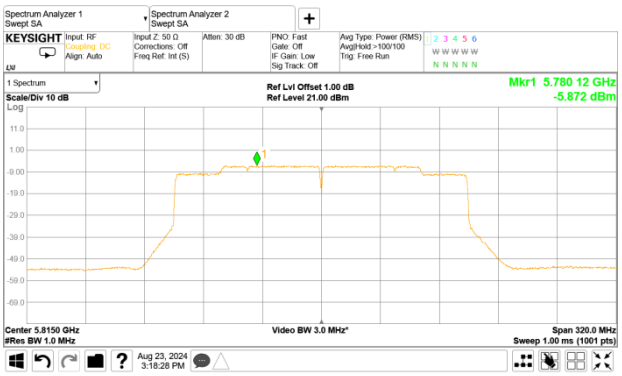
Tel: +886 2 26099301
Fax: +886 2 26099303

802.11be-EHT40	
AUX	Main
	
	

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

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

802.11be-EHT80	
AUX	Main
	

802.11be-EHT160	
AUX	Main
	

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

A.5 FREQUENCY STABILITY

Test Date	2024/08/23	Temp./Hum.	25℃/48%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Harry Huang

A.5.1 Frequency stability Result

Temperature (℃)	Voltage (Vac)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
25	120	5845	5844.997	-0.513
-30	102		5845.014	2.395
	138		5844.984	-2.737
-20	102		5845.005	0.855
	138		5844.99	-1.711
-10	102		5844.984	-2.737
	138		5844.989	-1.882
0	102		5844.997	-0.513
	138		5845.015	2.566
10	102		5845.001	0.171
	138		5845.011	1.882
20	102		5844.989	-1.882
	138		5845.005	0.855
30	102		5844.997	-0.513
	138		5845.014	2.395
40	102		5845.020	3.422
	138		5845.012	2.053
50	102		5844.994	-1.027
	138		5844.984	-2.737