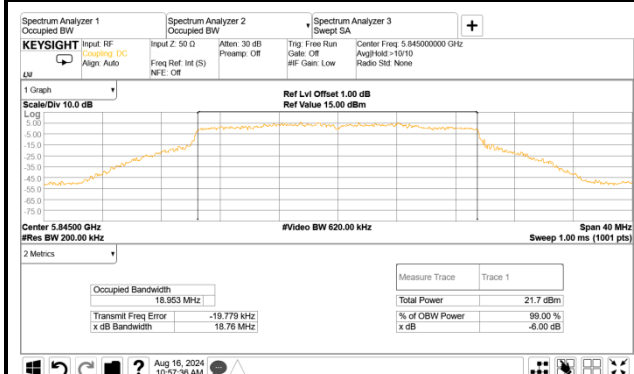


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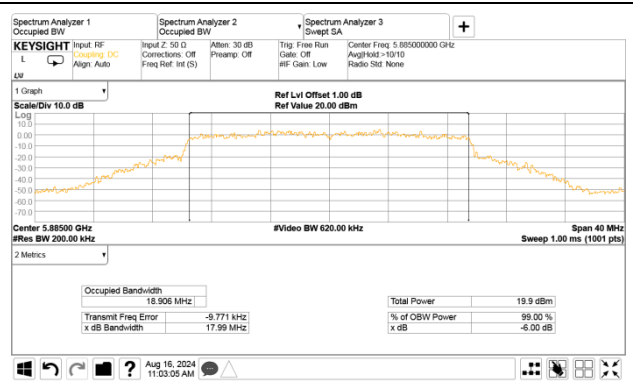
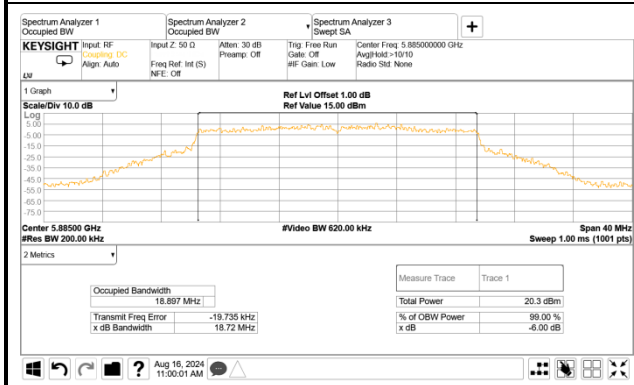
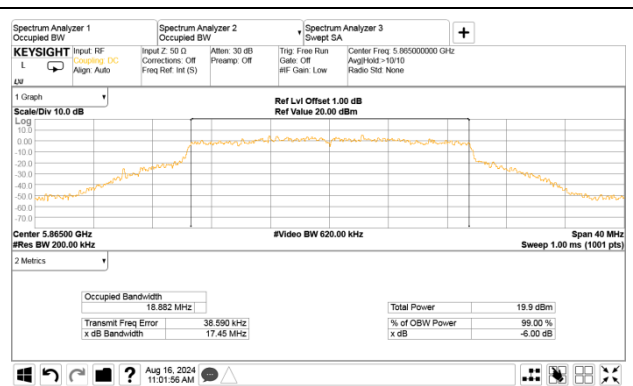
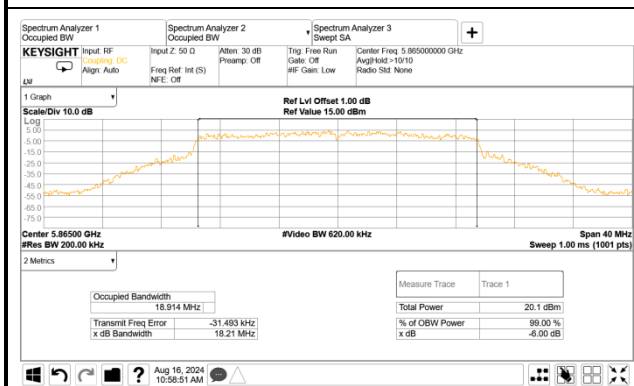
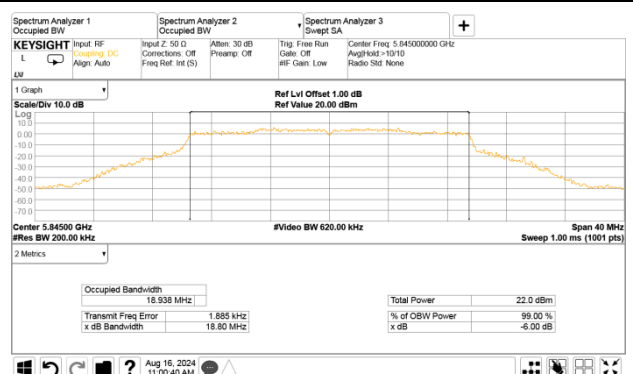
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802.11ax-HE20

AUX



Main

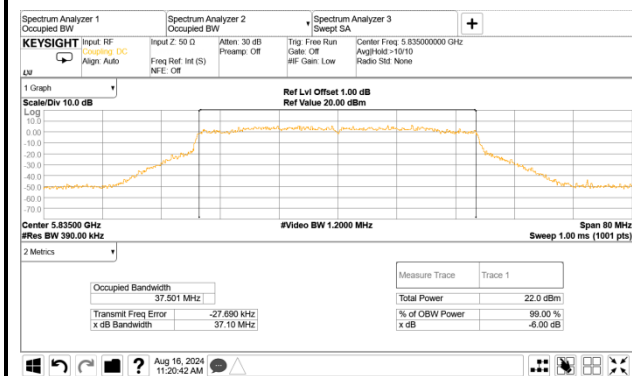


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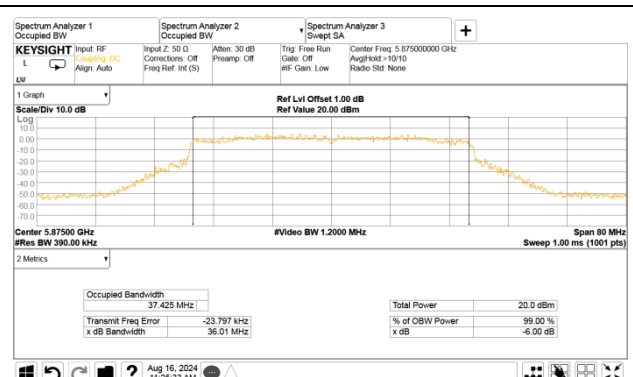
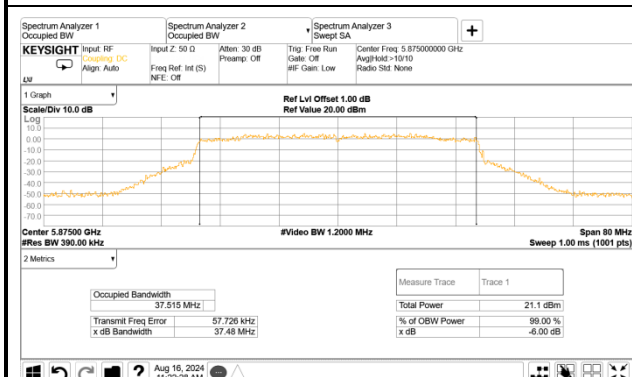
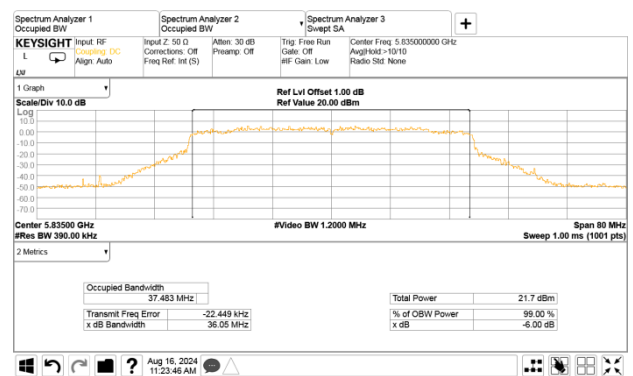
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802.11ax-HE40

AUX

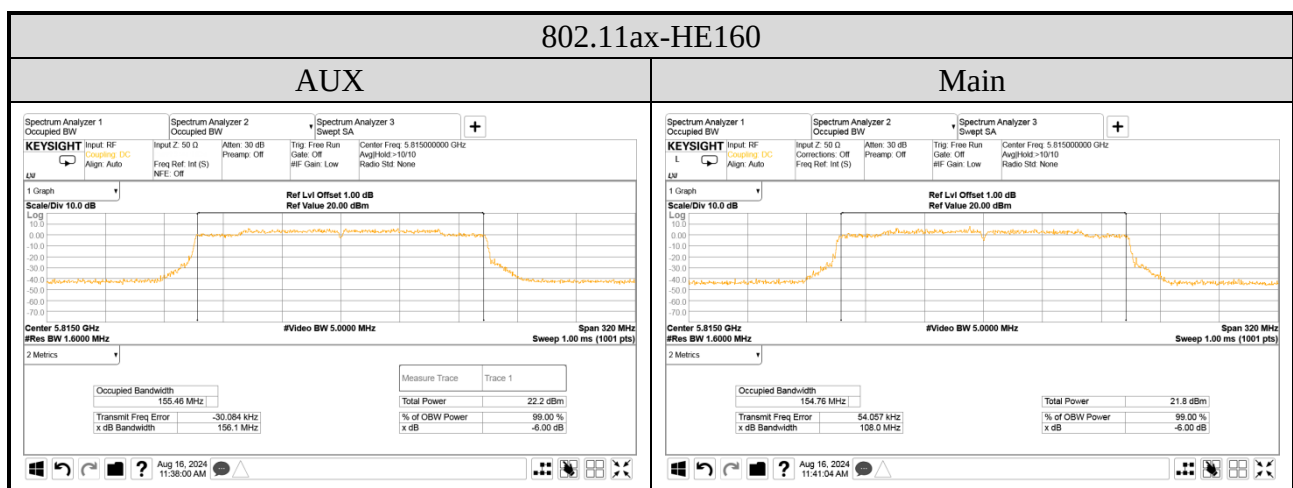
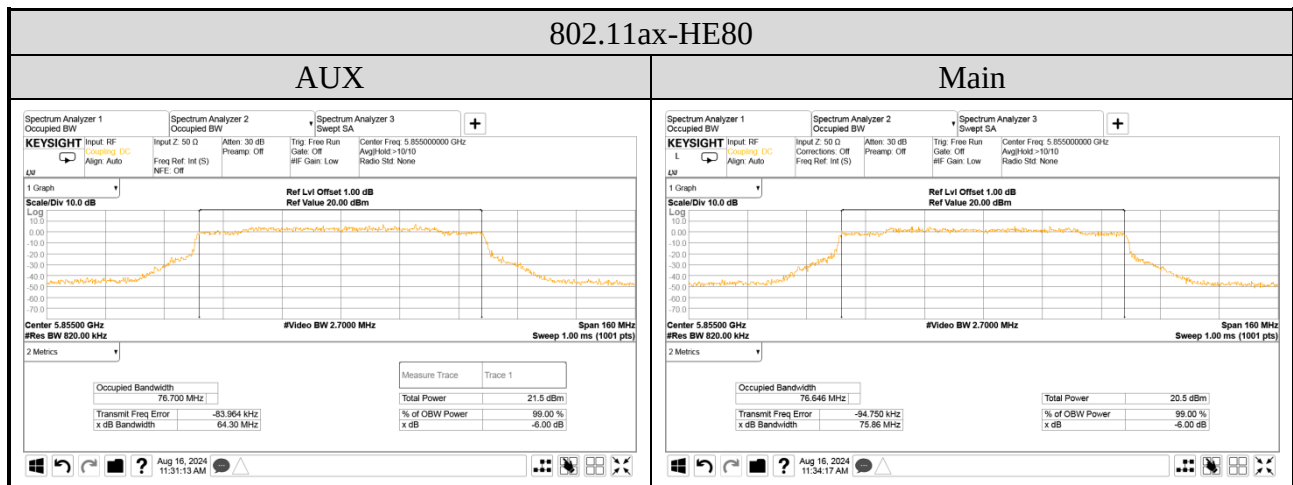


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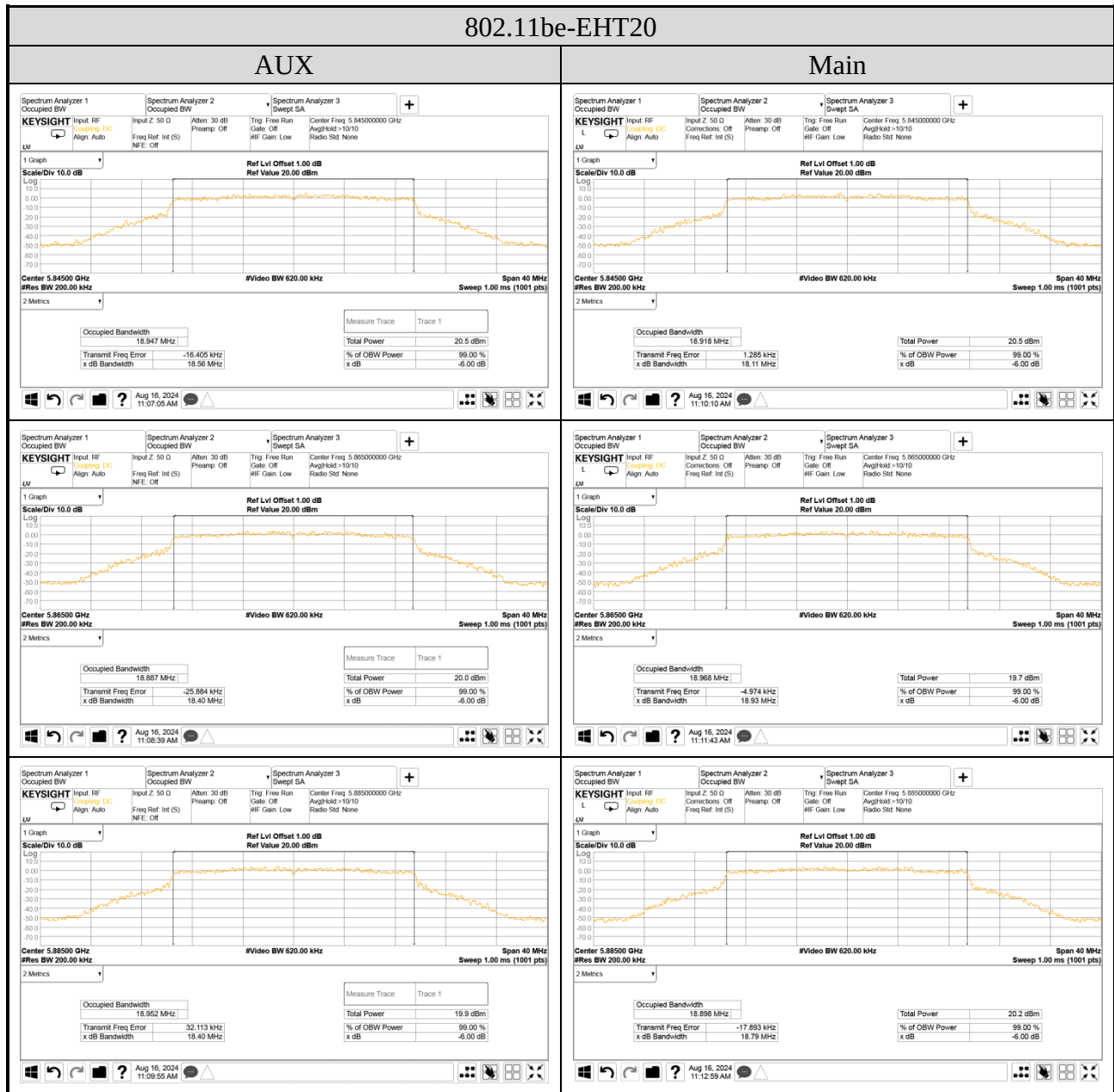
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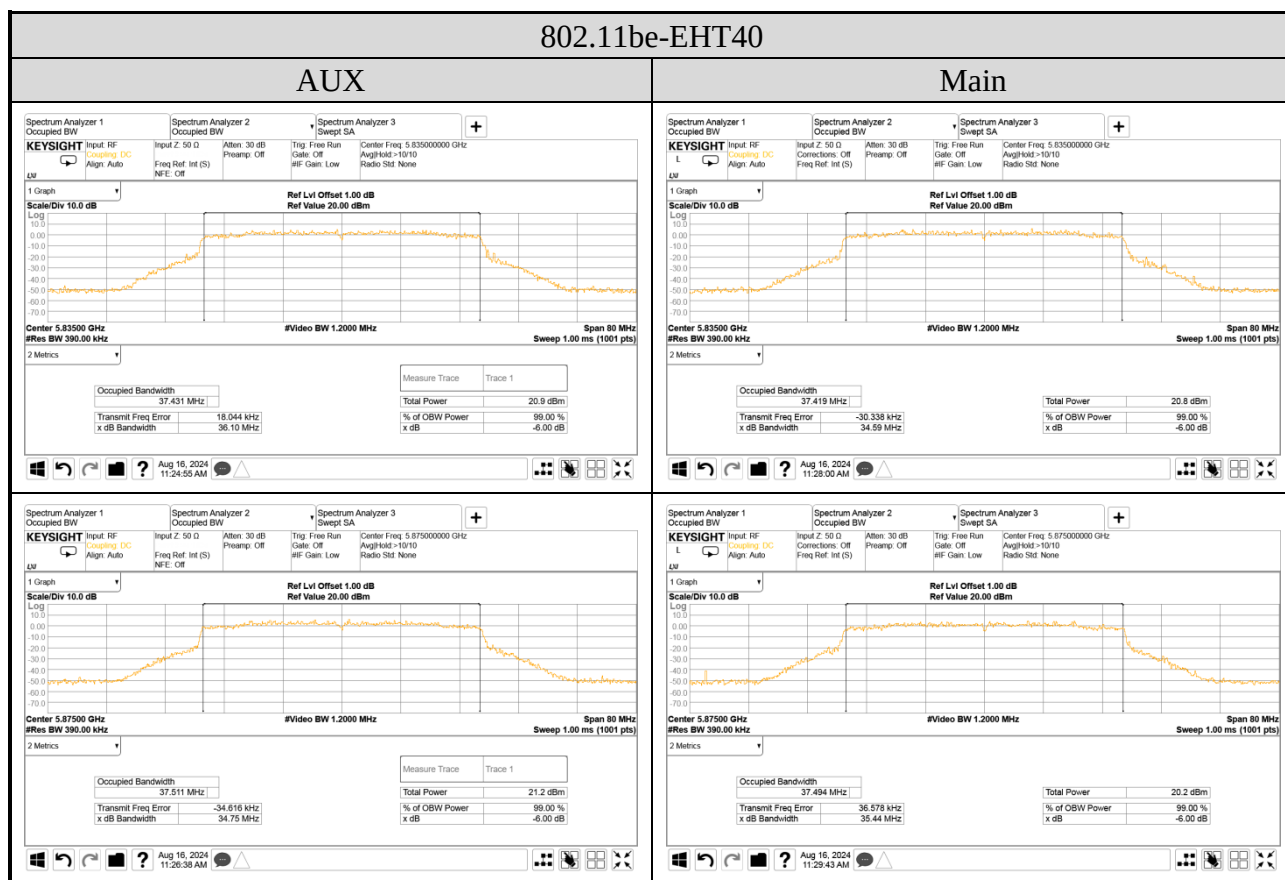
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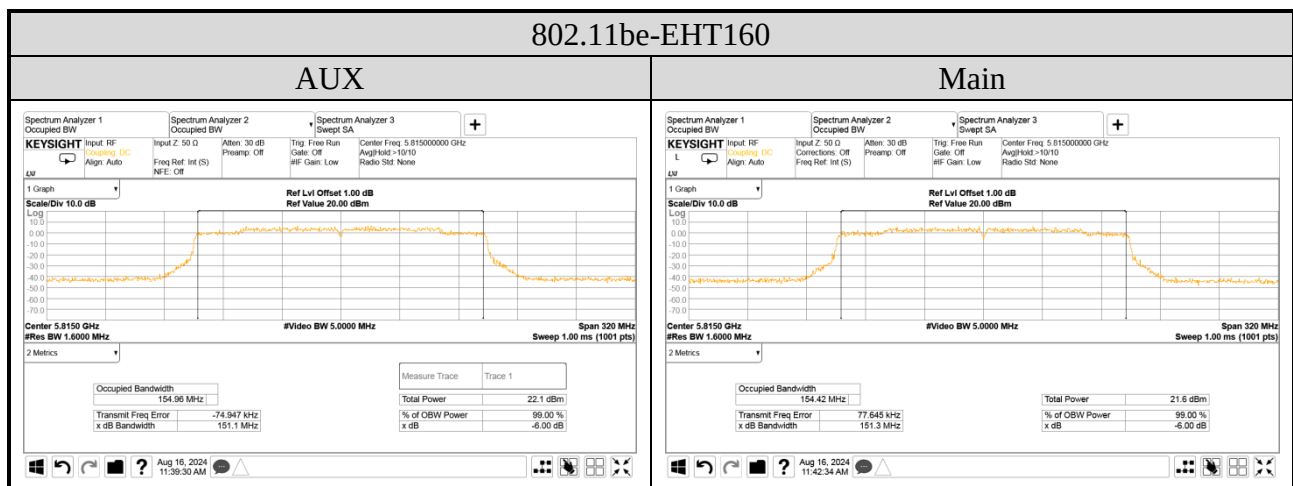
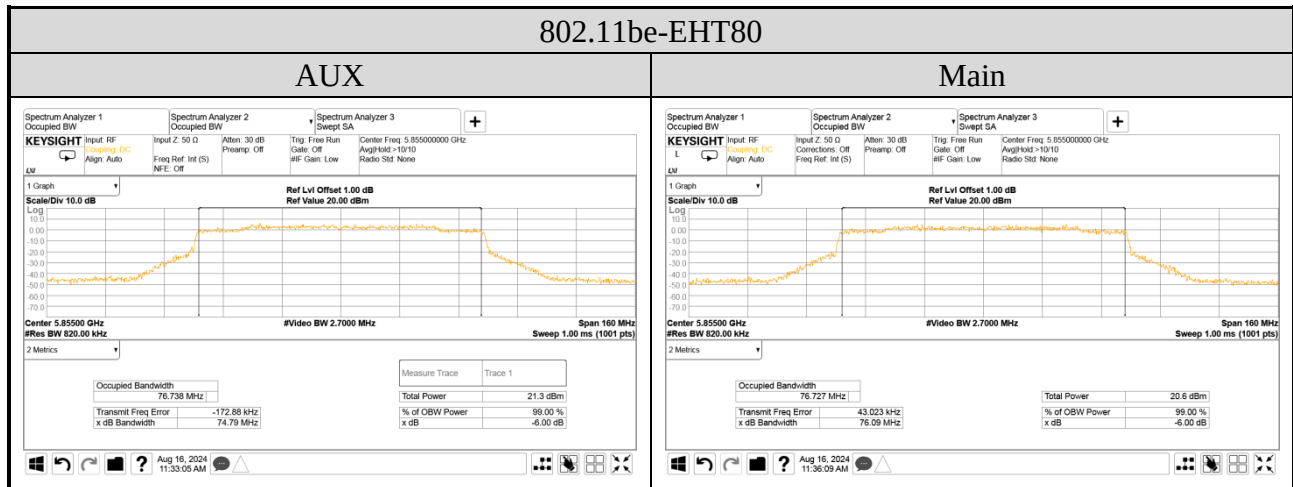
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A.4 POWER SPECTRAL DENSITY

Test Date	2024/08/22 ~ 23	Temp./Hum.	24 ~ 25°C /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

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{2.1/10})/2] = 1.21\text{dBi}$$

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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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

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{2.1/10})/2] = 1.21\text{dBi}$$

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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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

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{2.1/10})/2] = 1.21\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

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

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

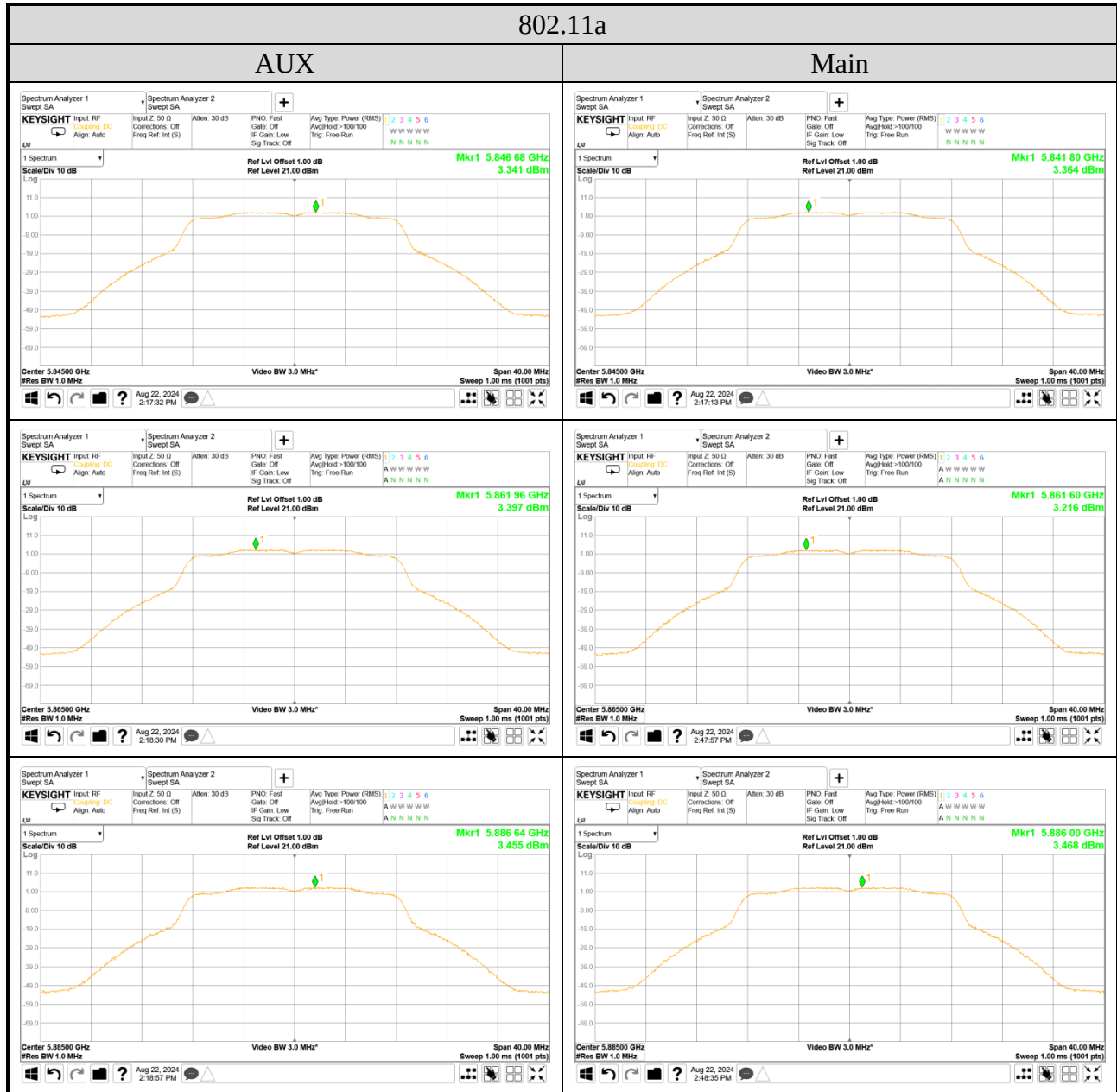
$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{2.1/10})/2] = 1.21 \text{ dBi}$$

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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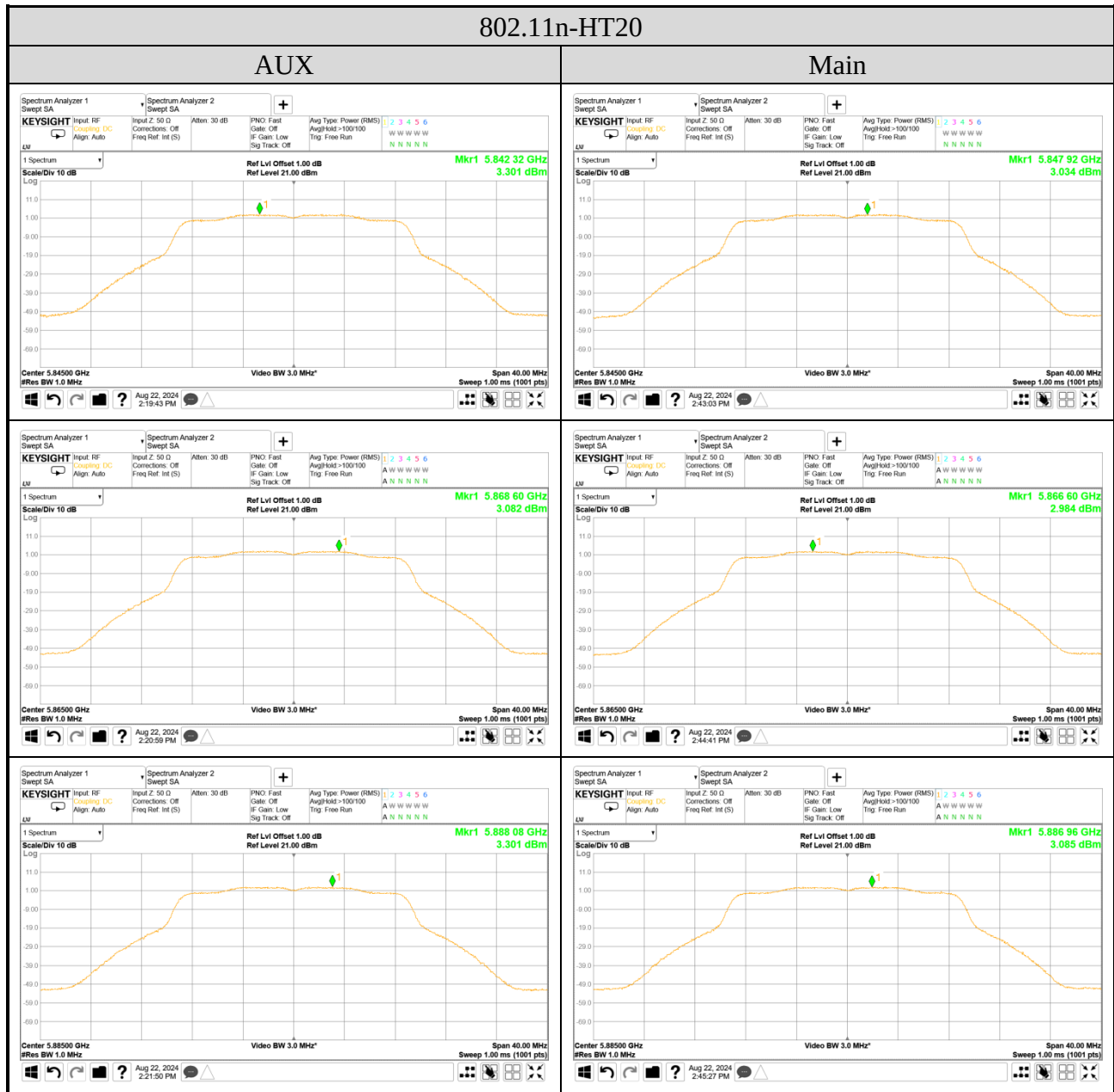
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A.4.2 Measurement Plots



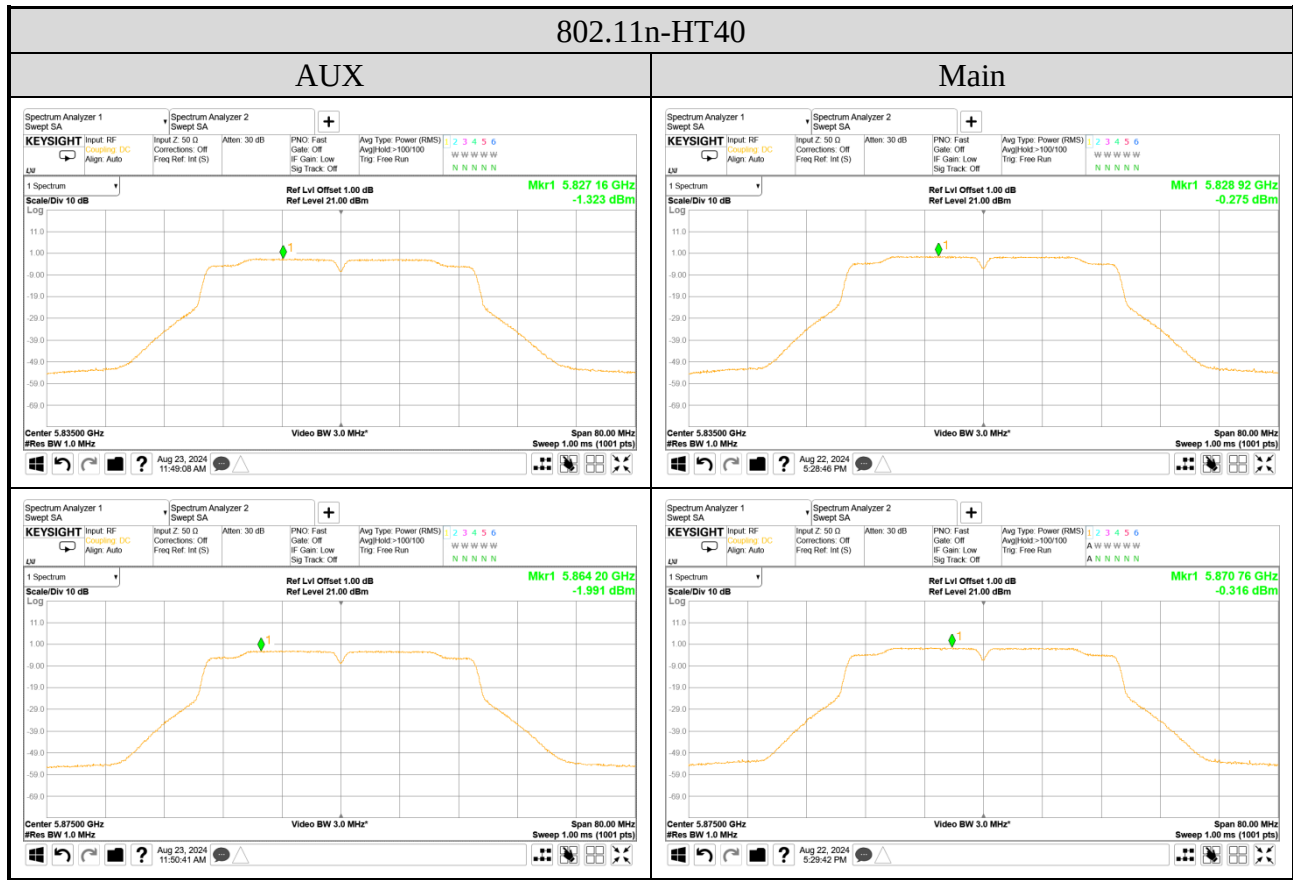
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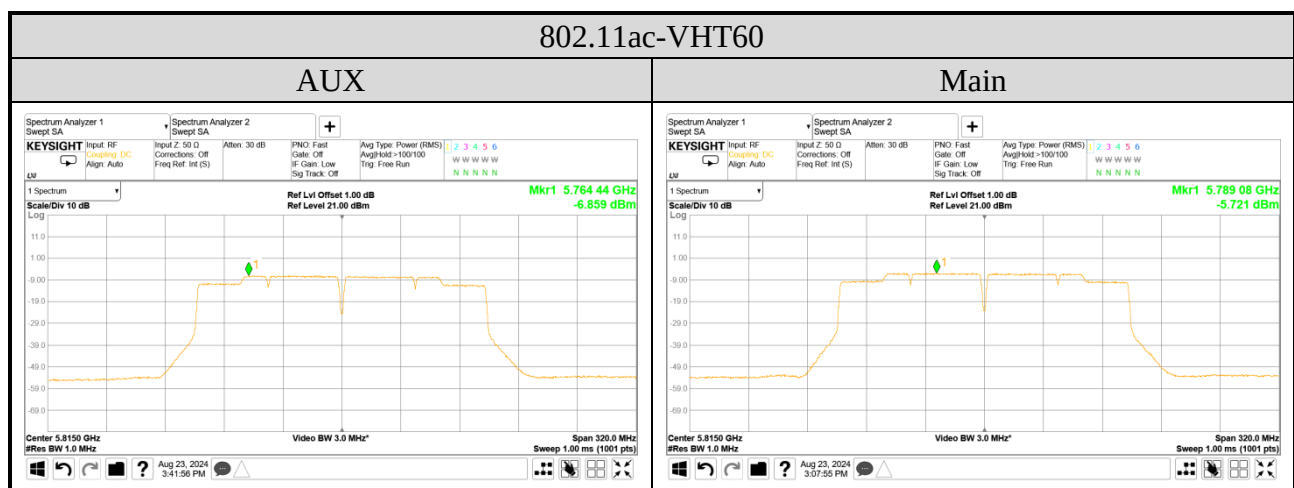
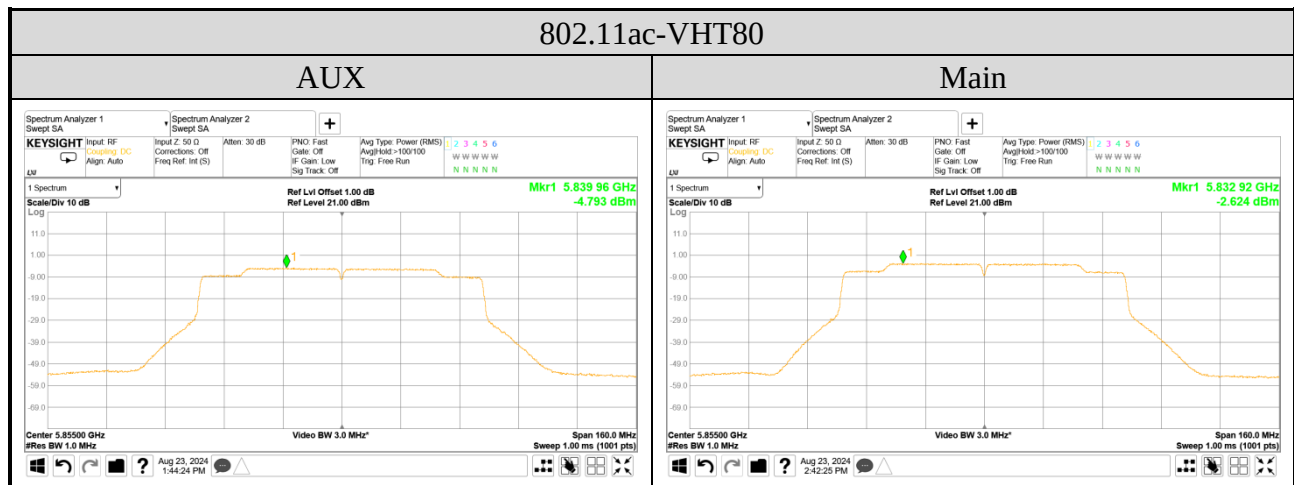
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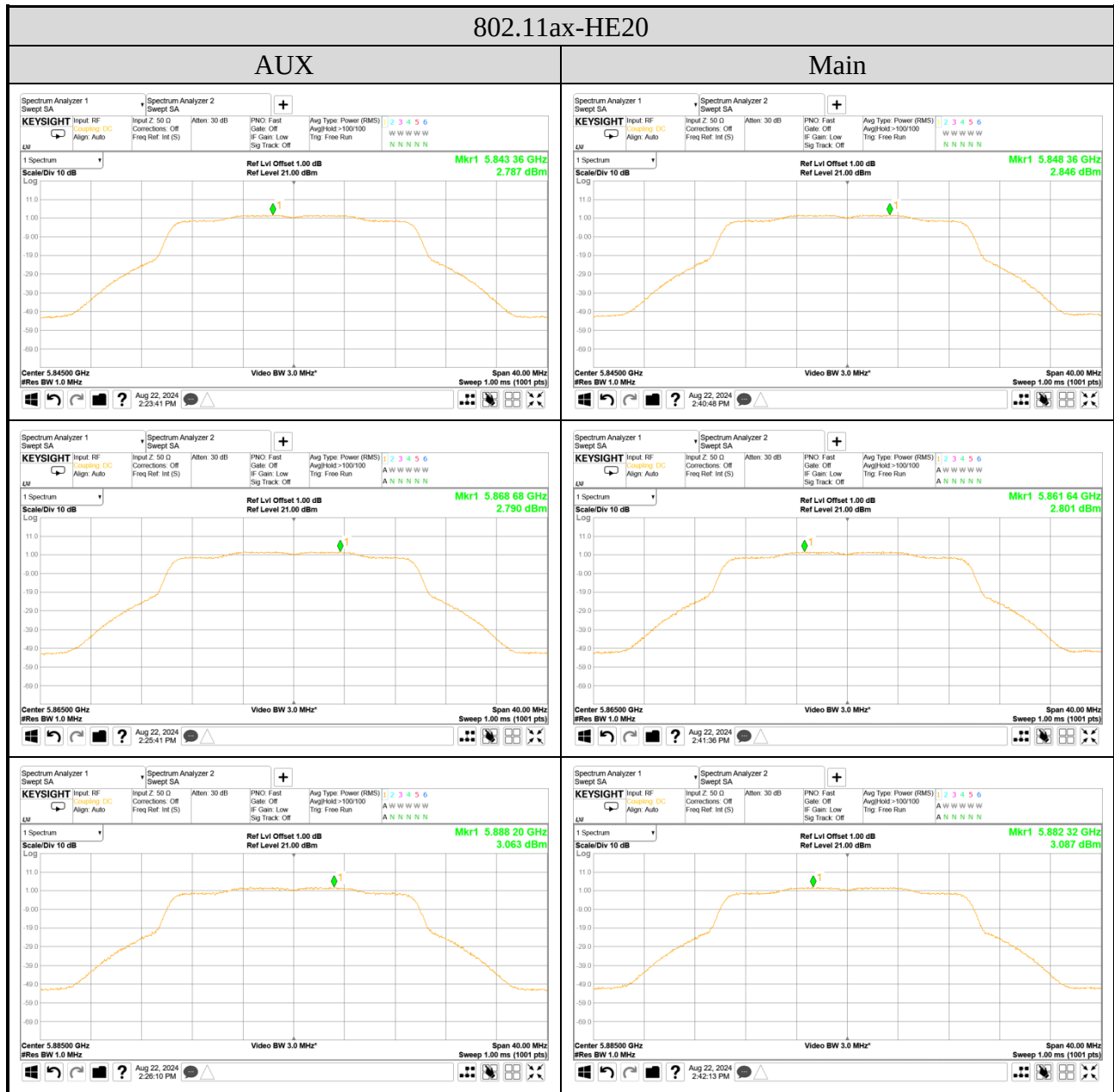
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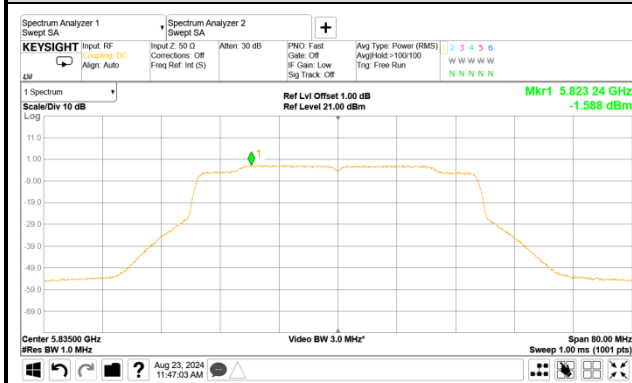


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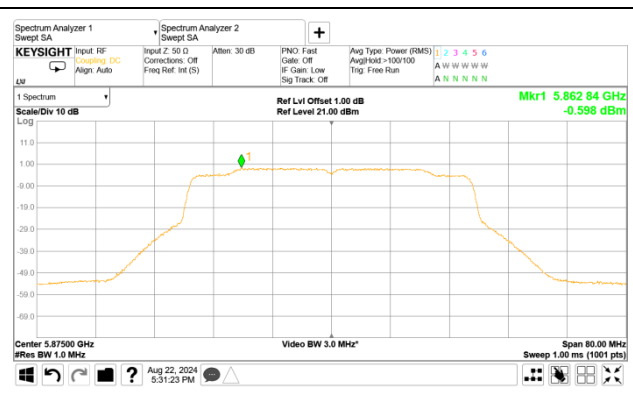
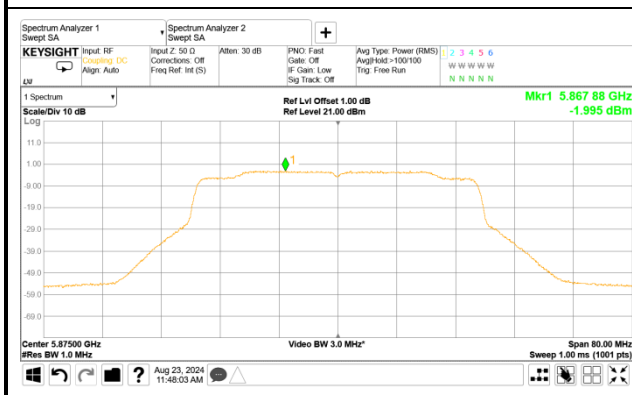
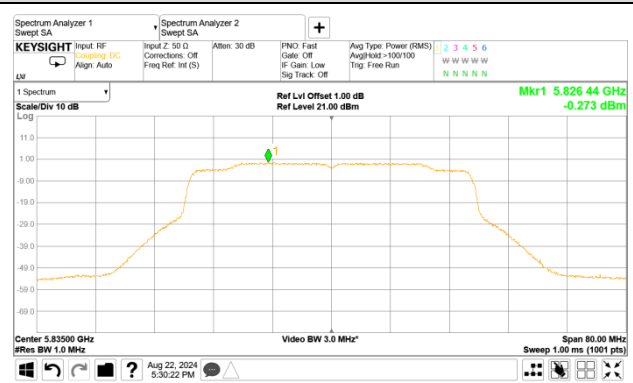
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802.11ax-HE40

AUX



Main

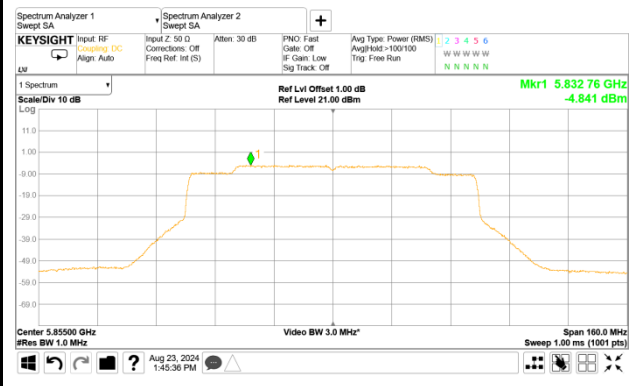


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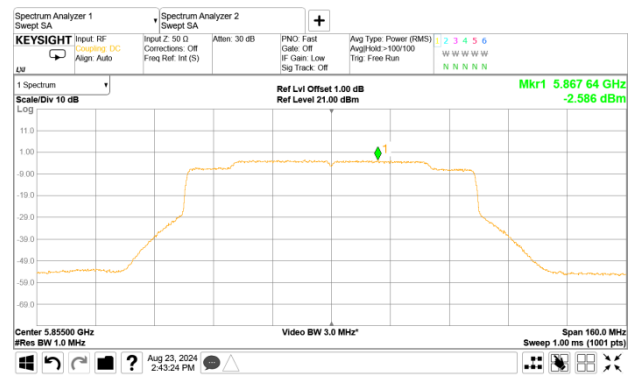
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802.11ax-HE80

AUX

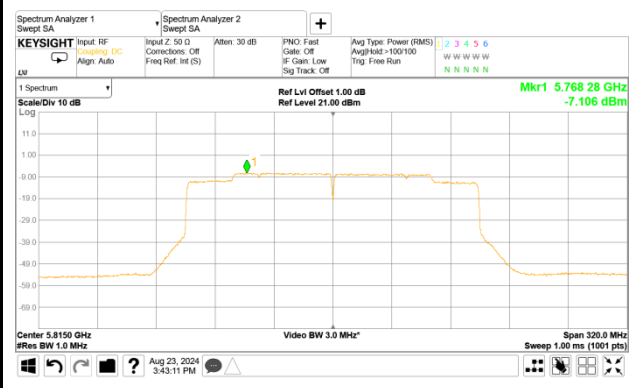


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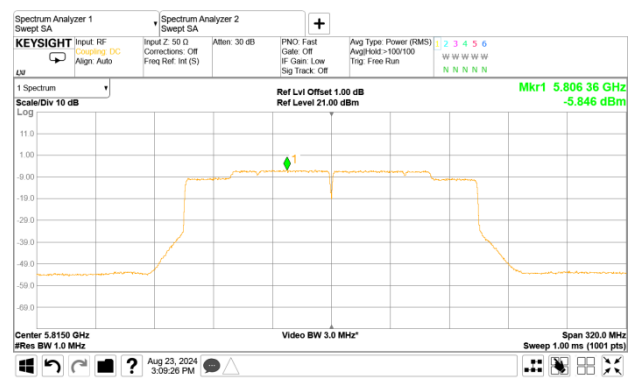


802.11ax-HE160

AUX

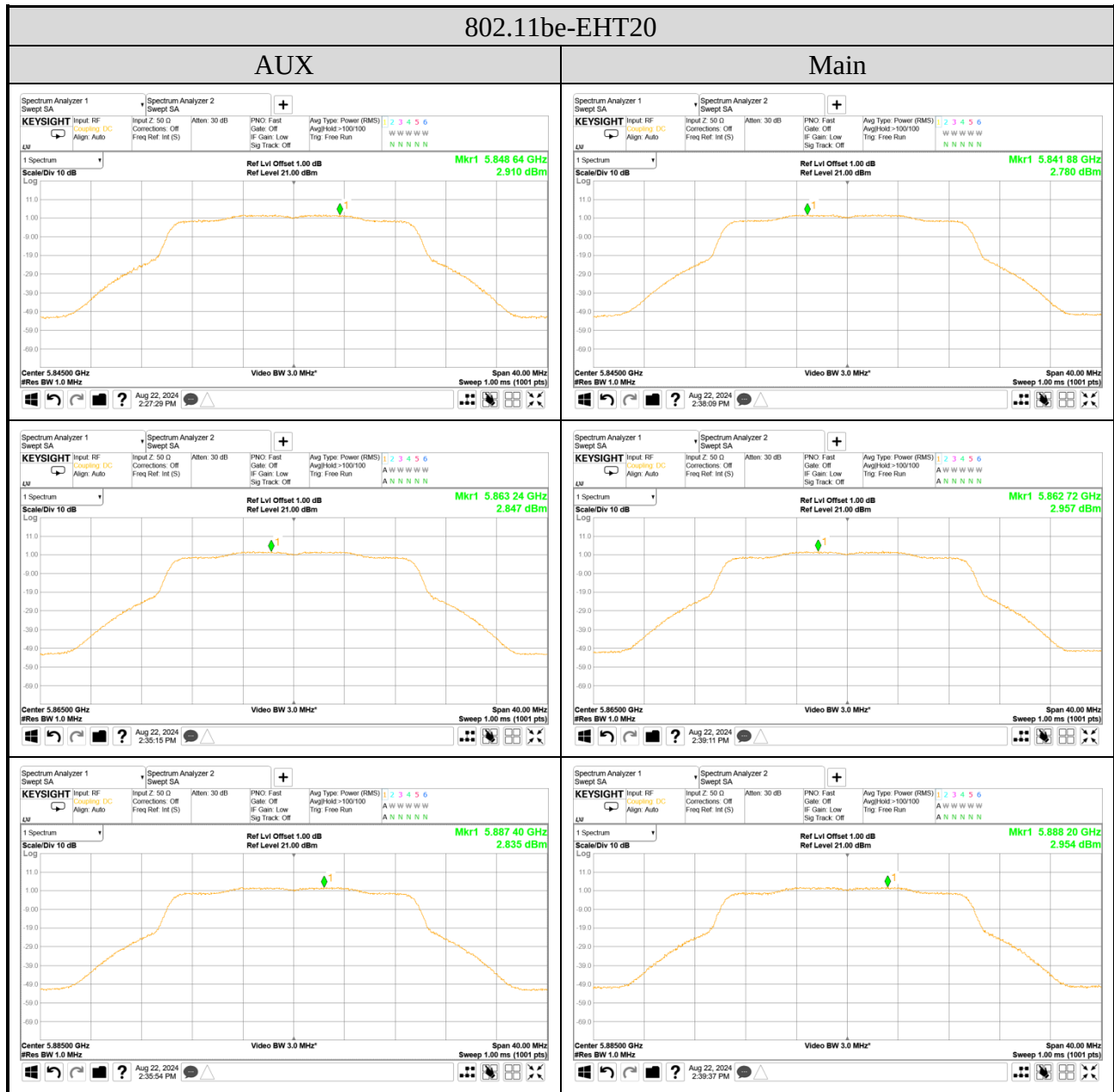


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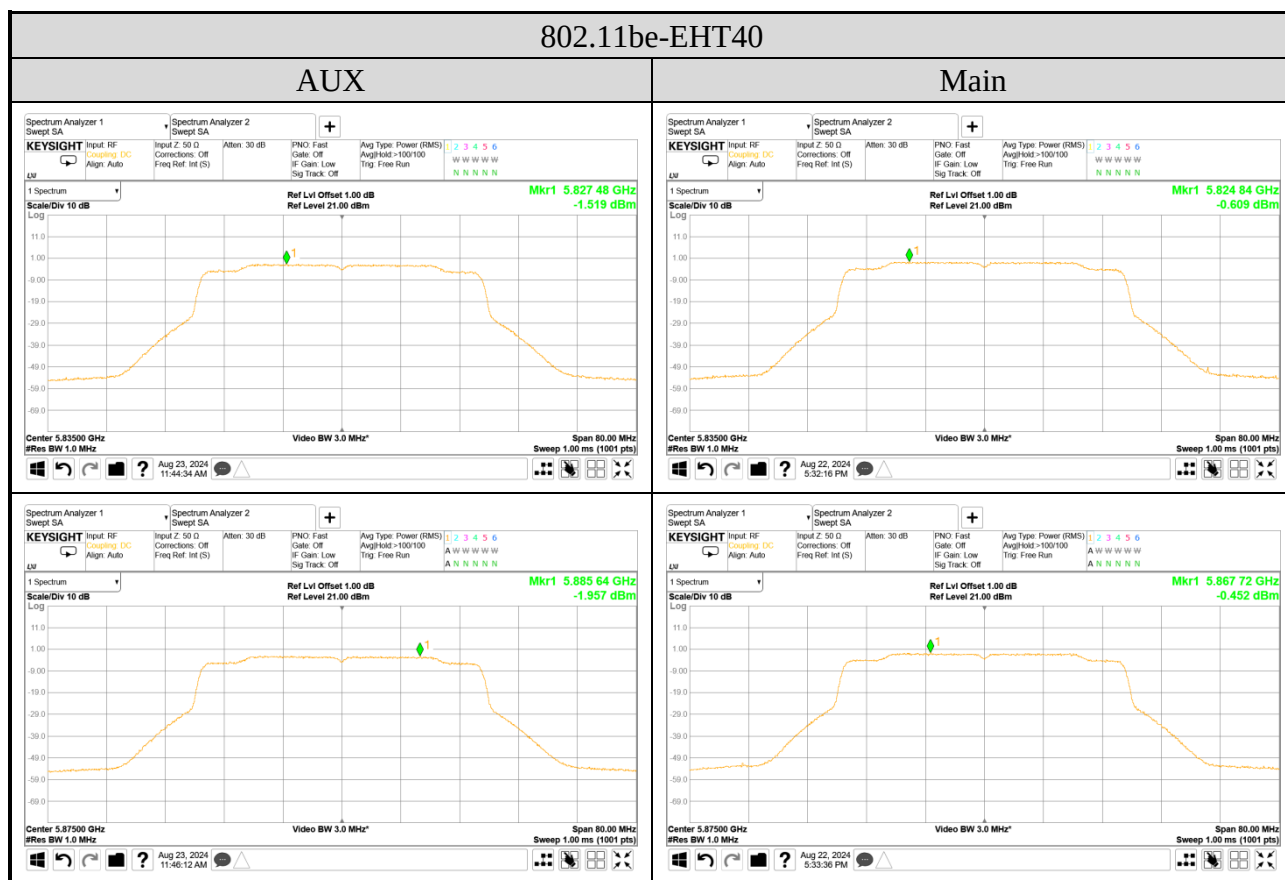
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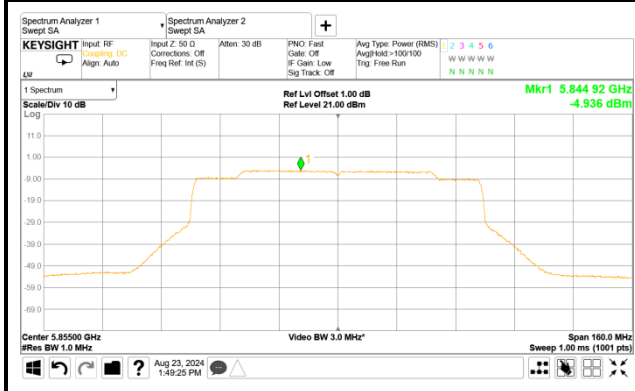


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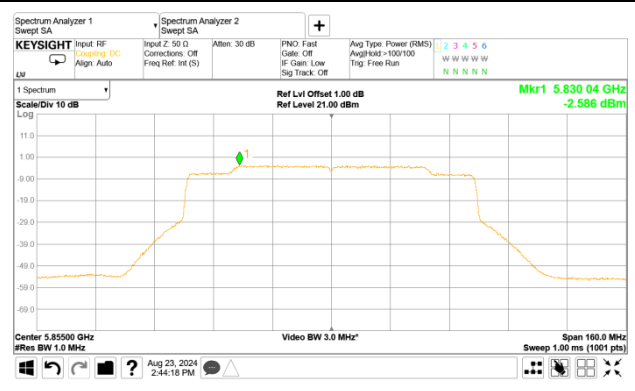
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802.11be-EHT80

AUX

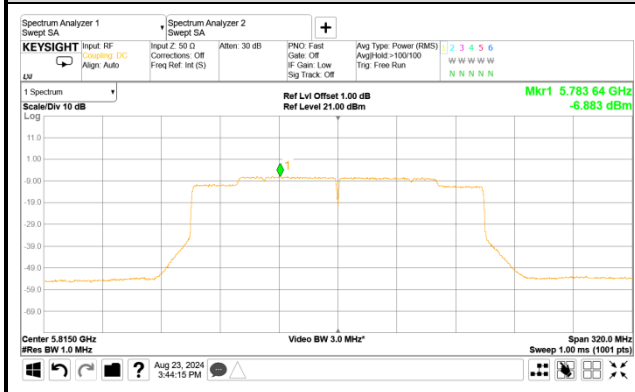


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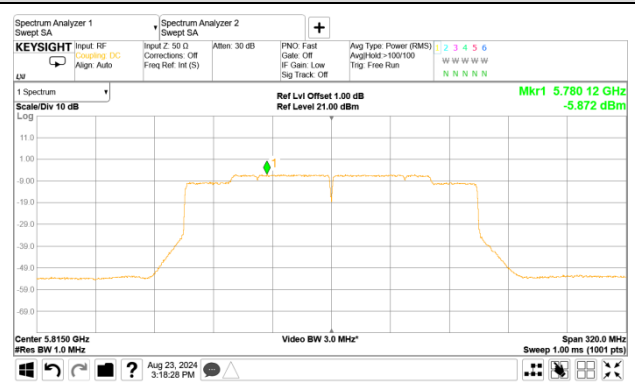


802.11be-EHT160

AUX



Main



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A.5 FREQUENCY STABILITY

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

A.5.1 Frequency stability Result

Temperature (°C)	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