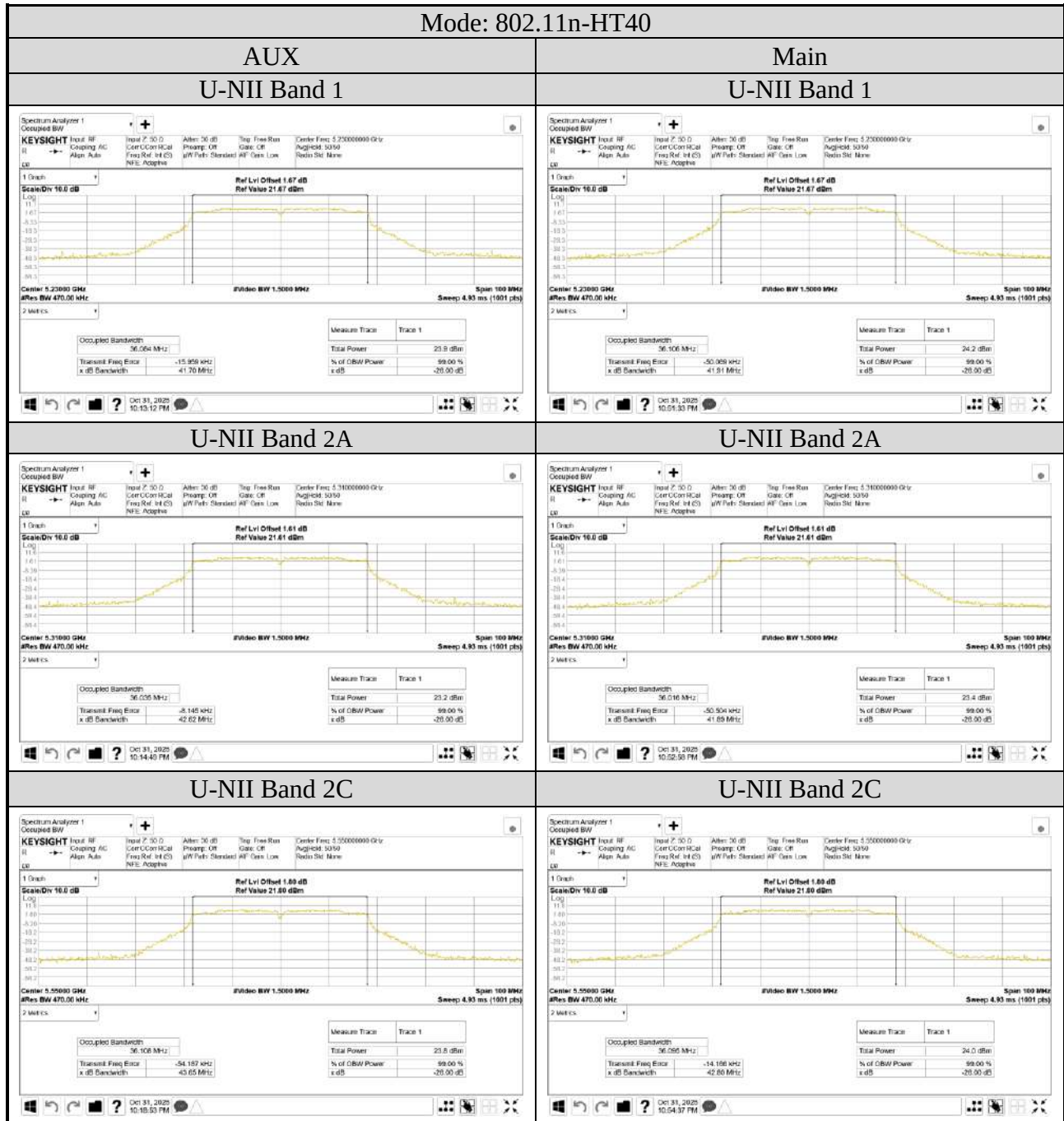


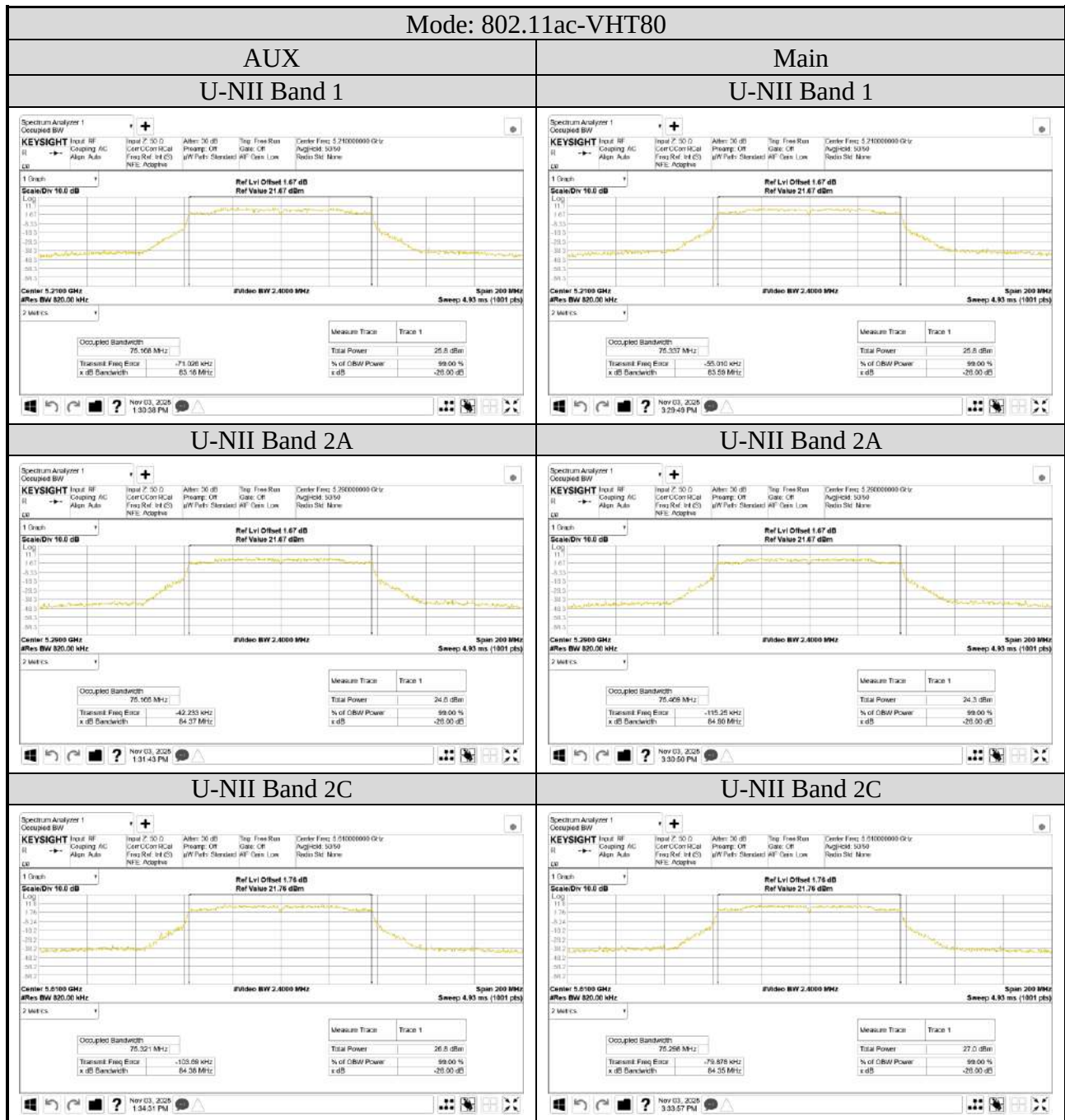
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New Taipei City244, Taiwan

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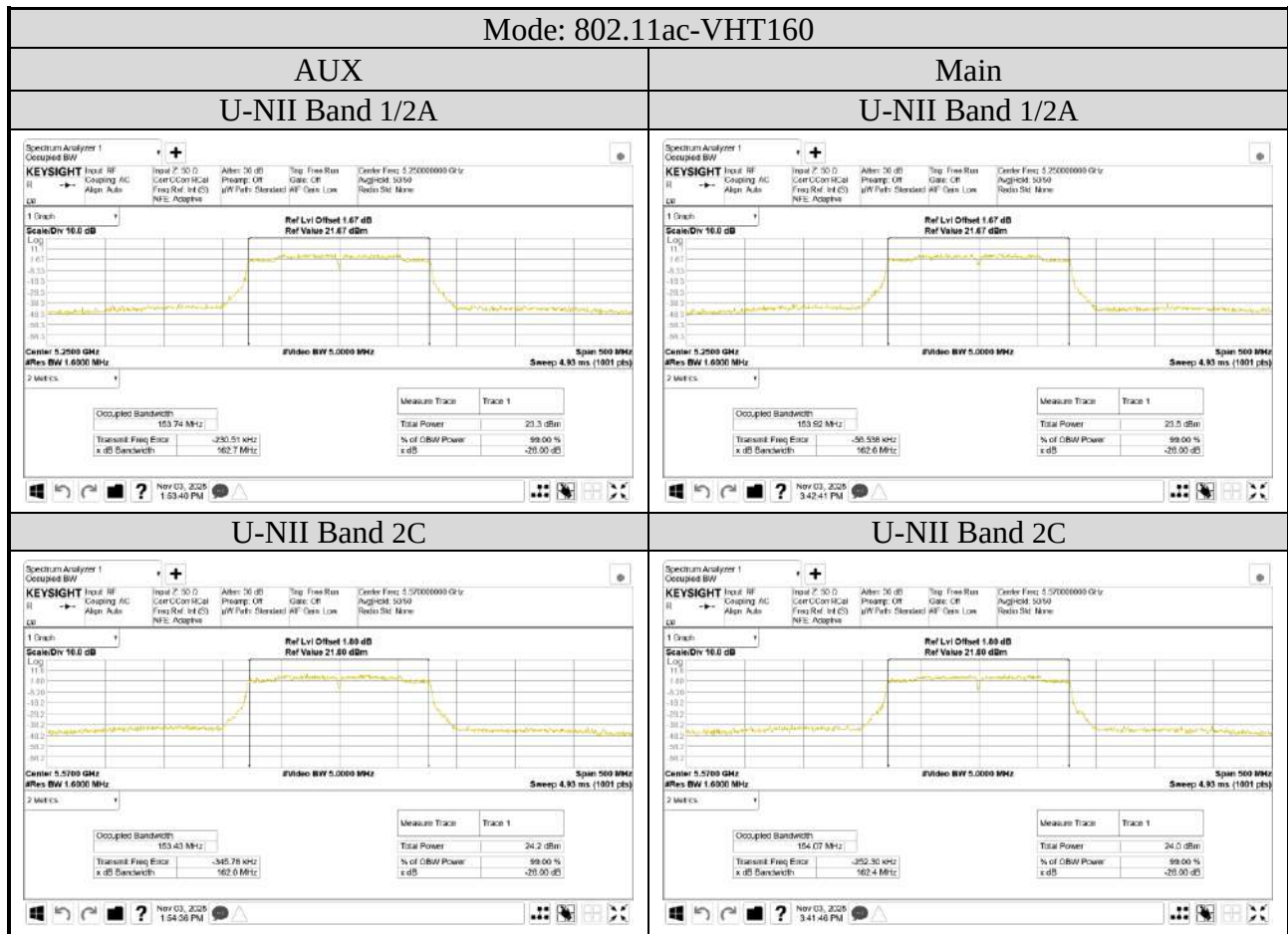
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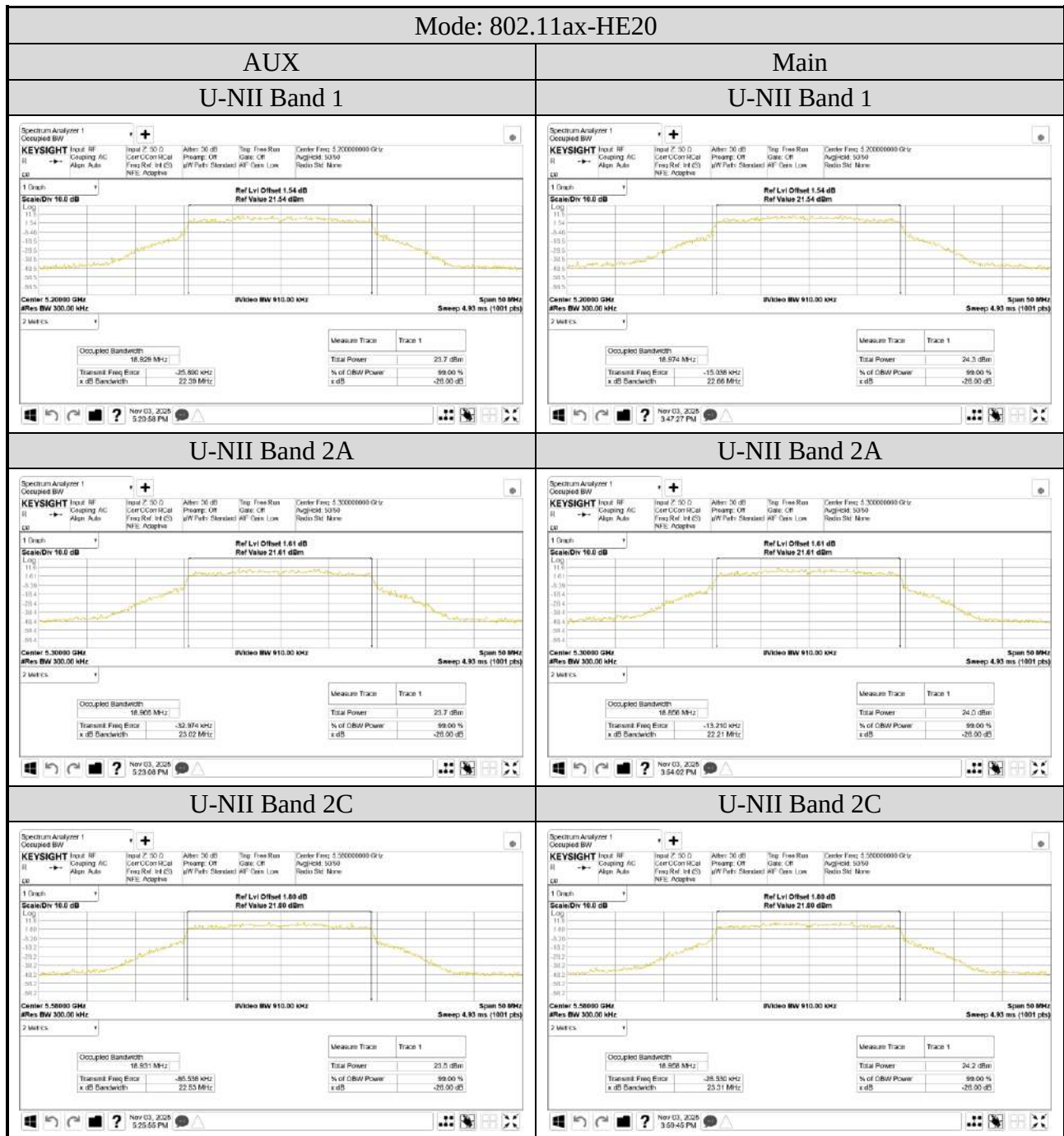
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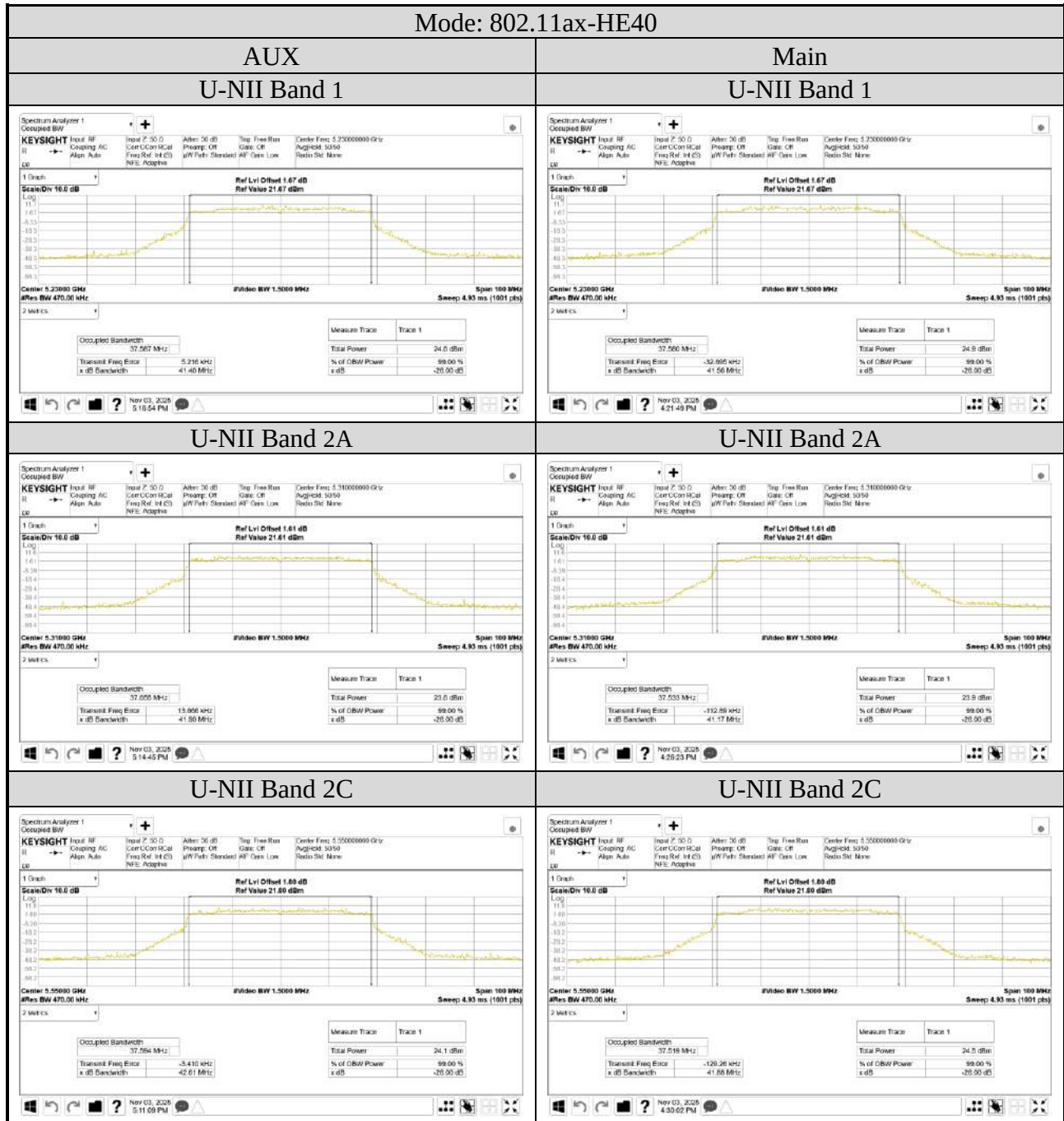
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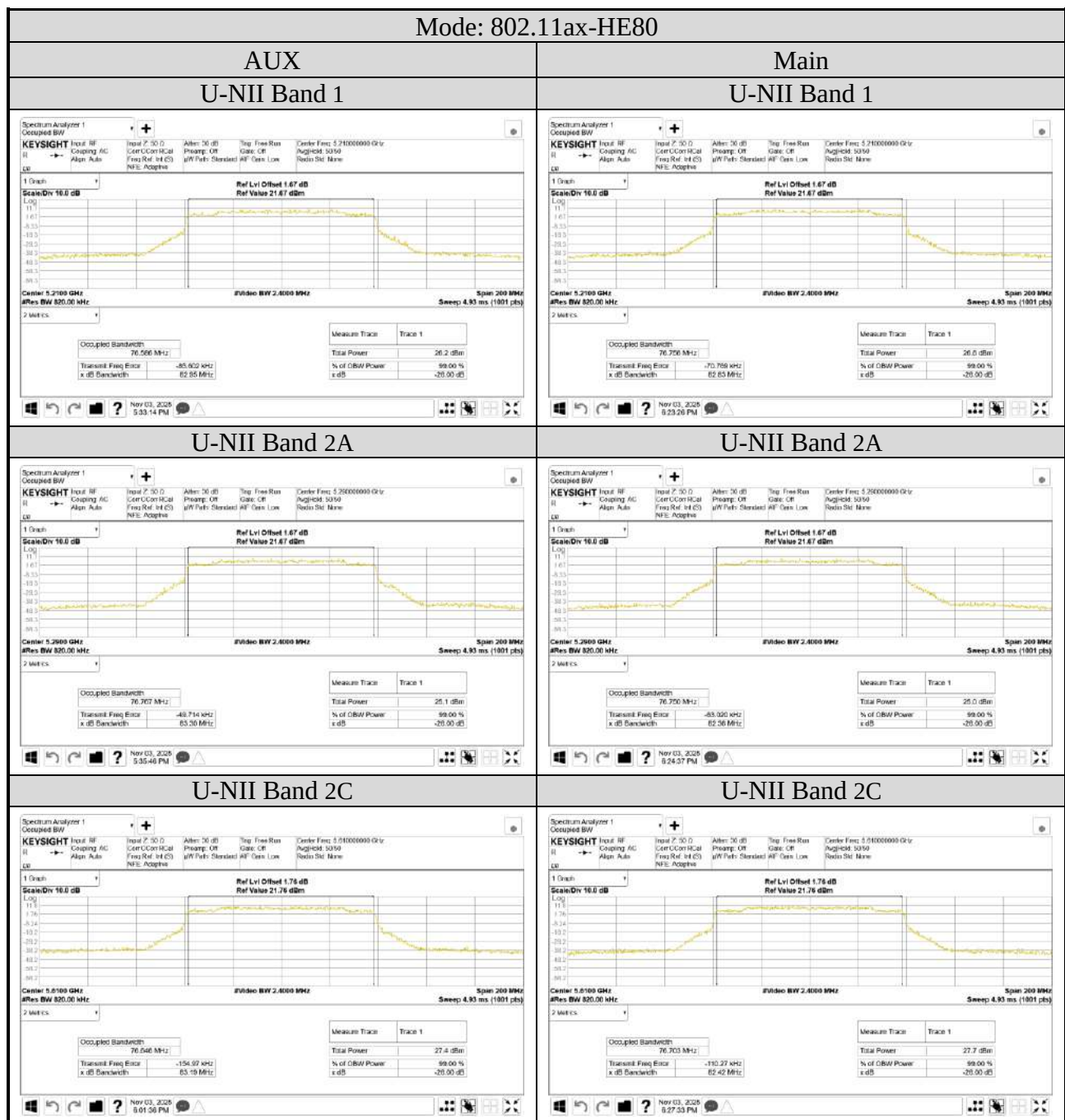
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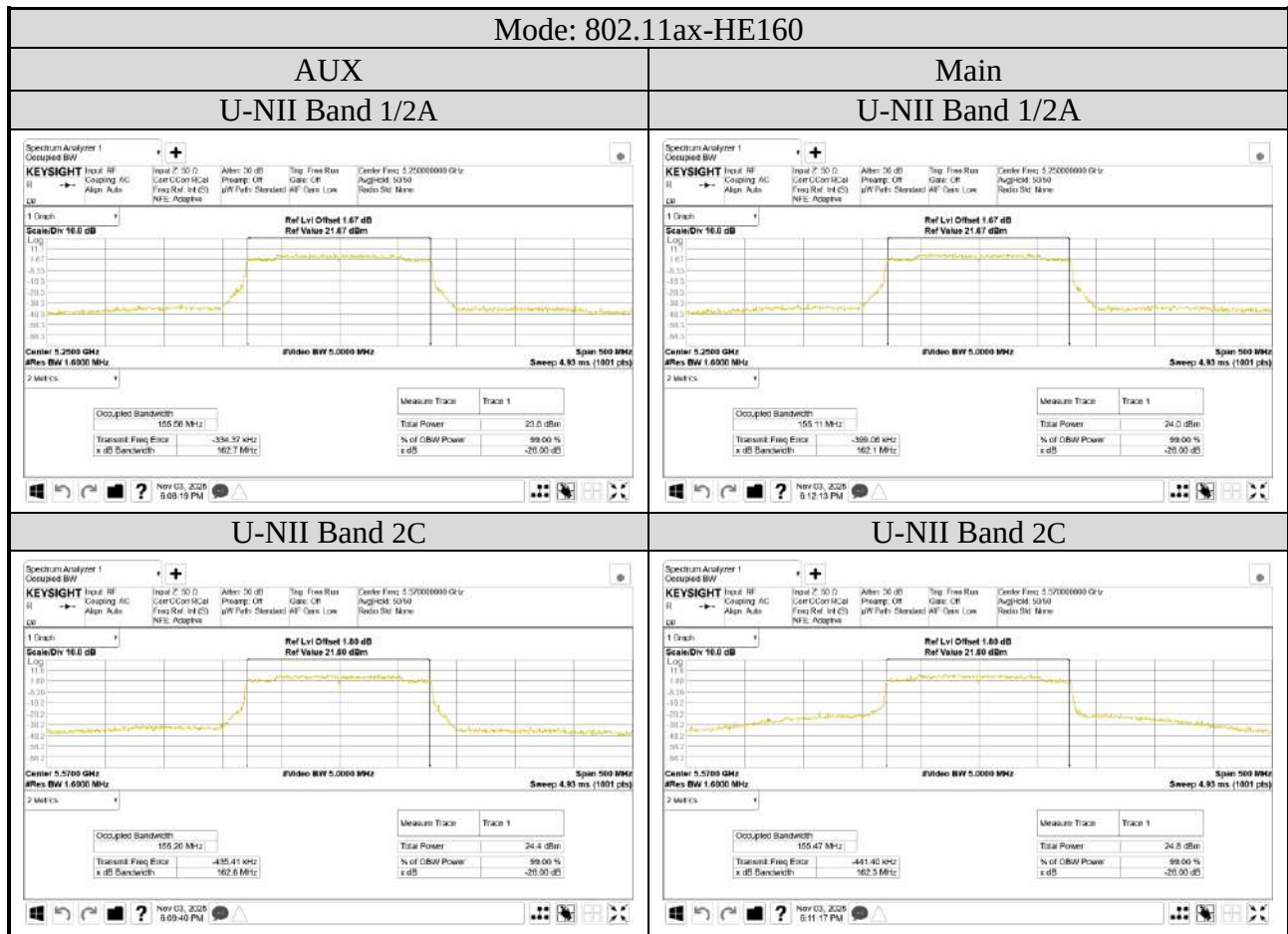
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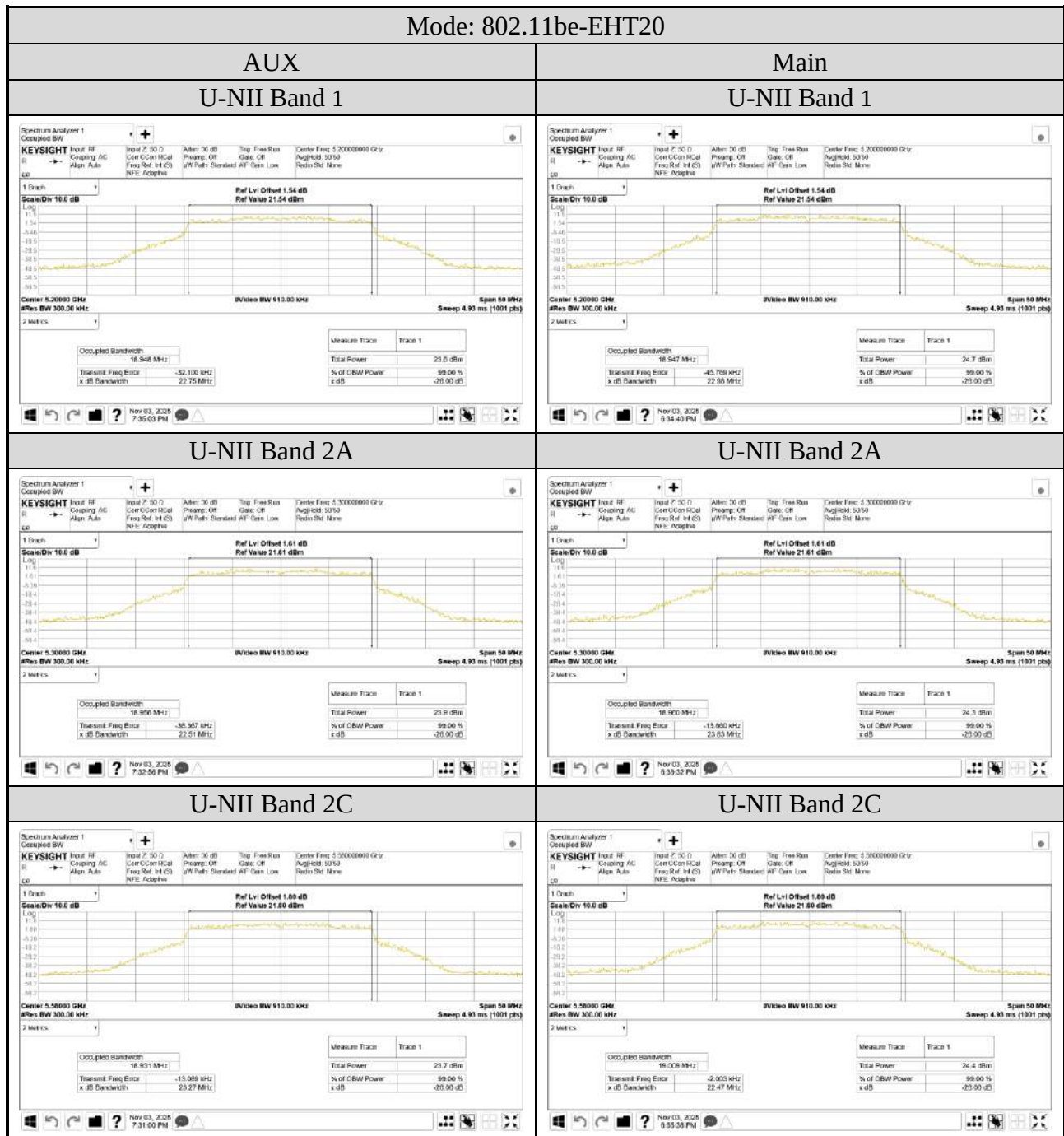
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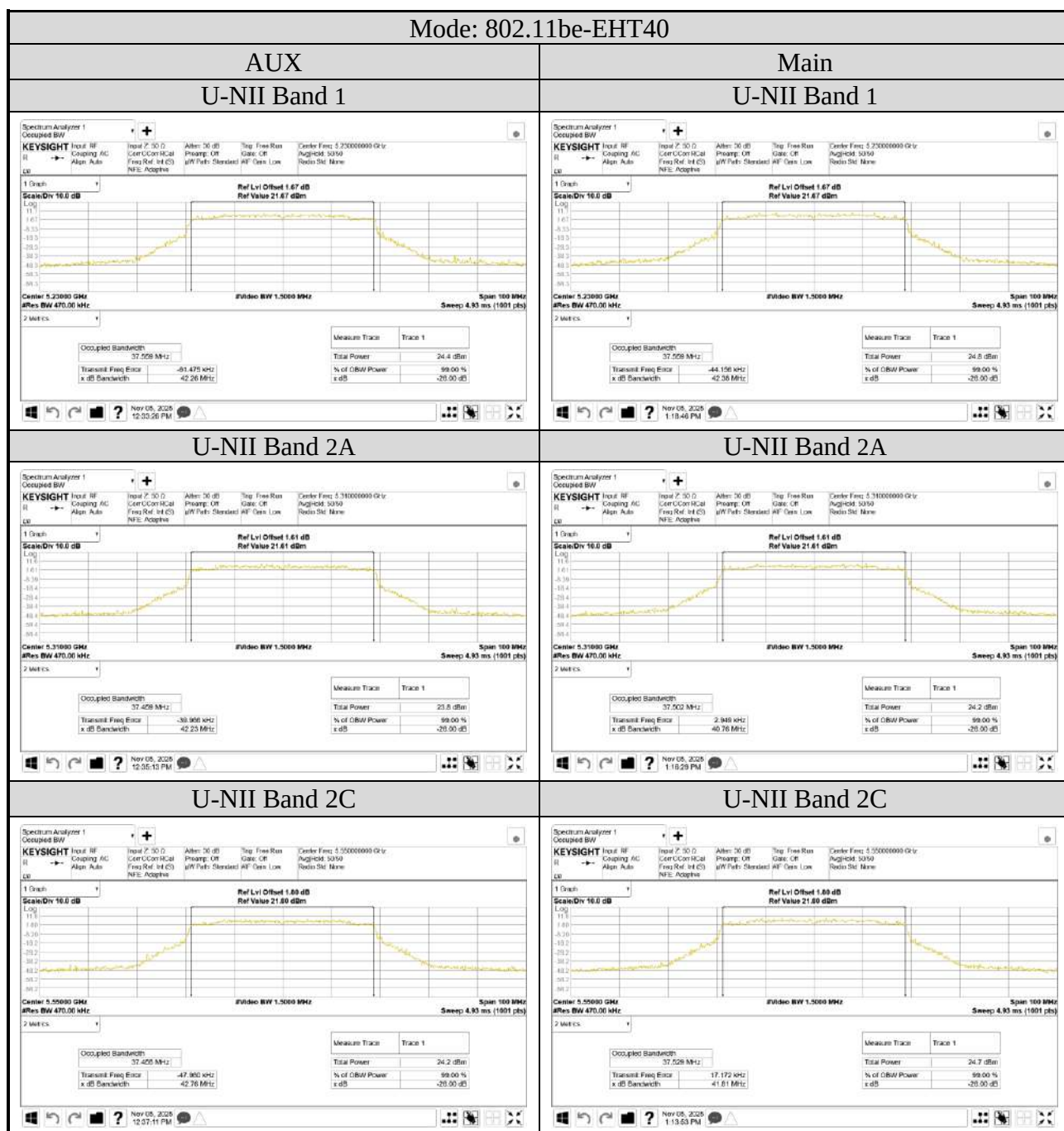
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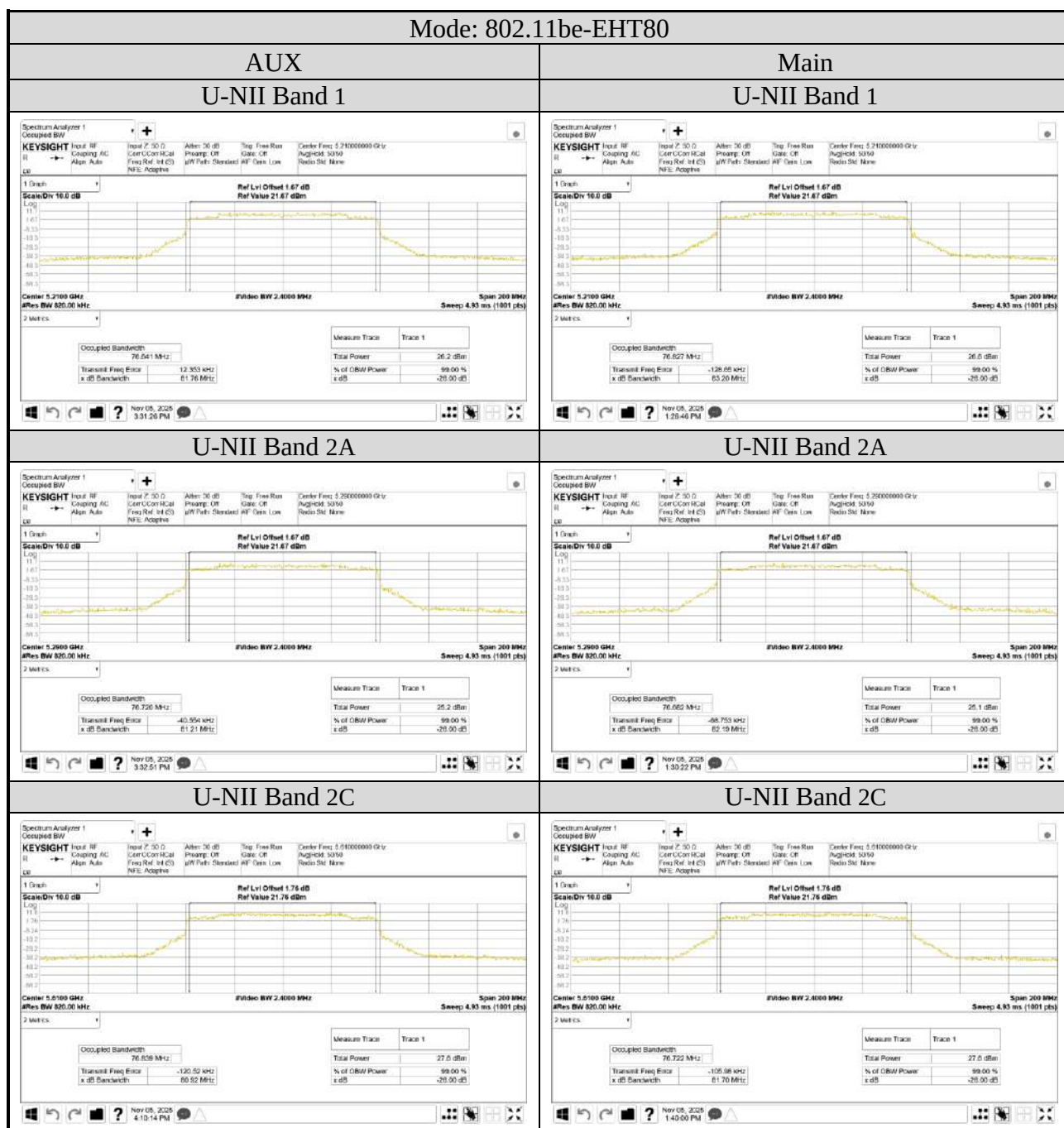


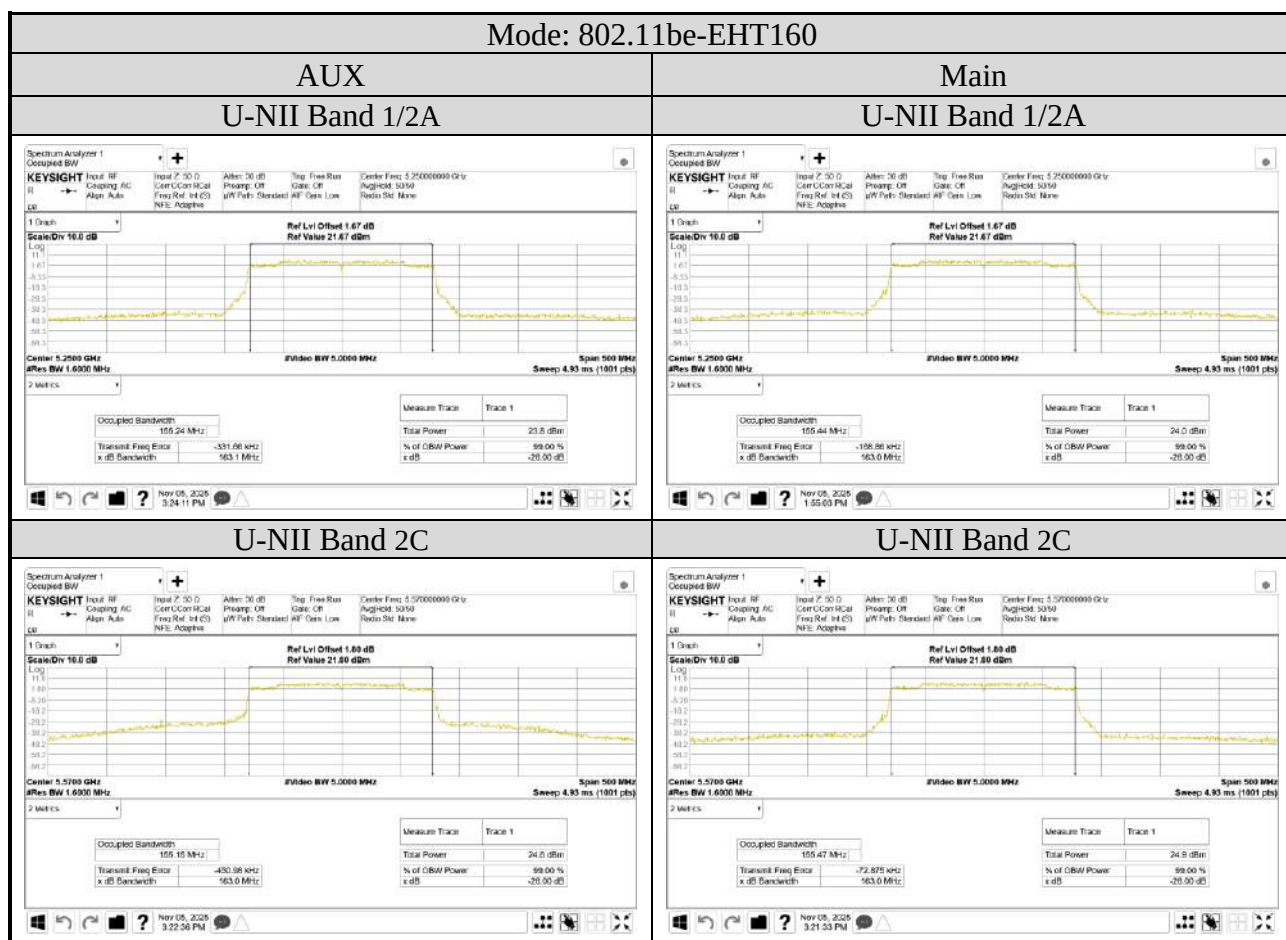
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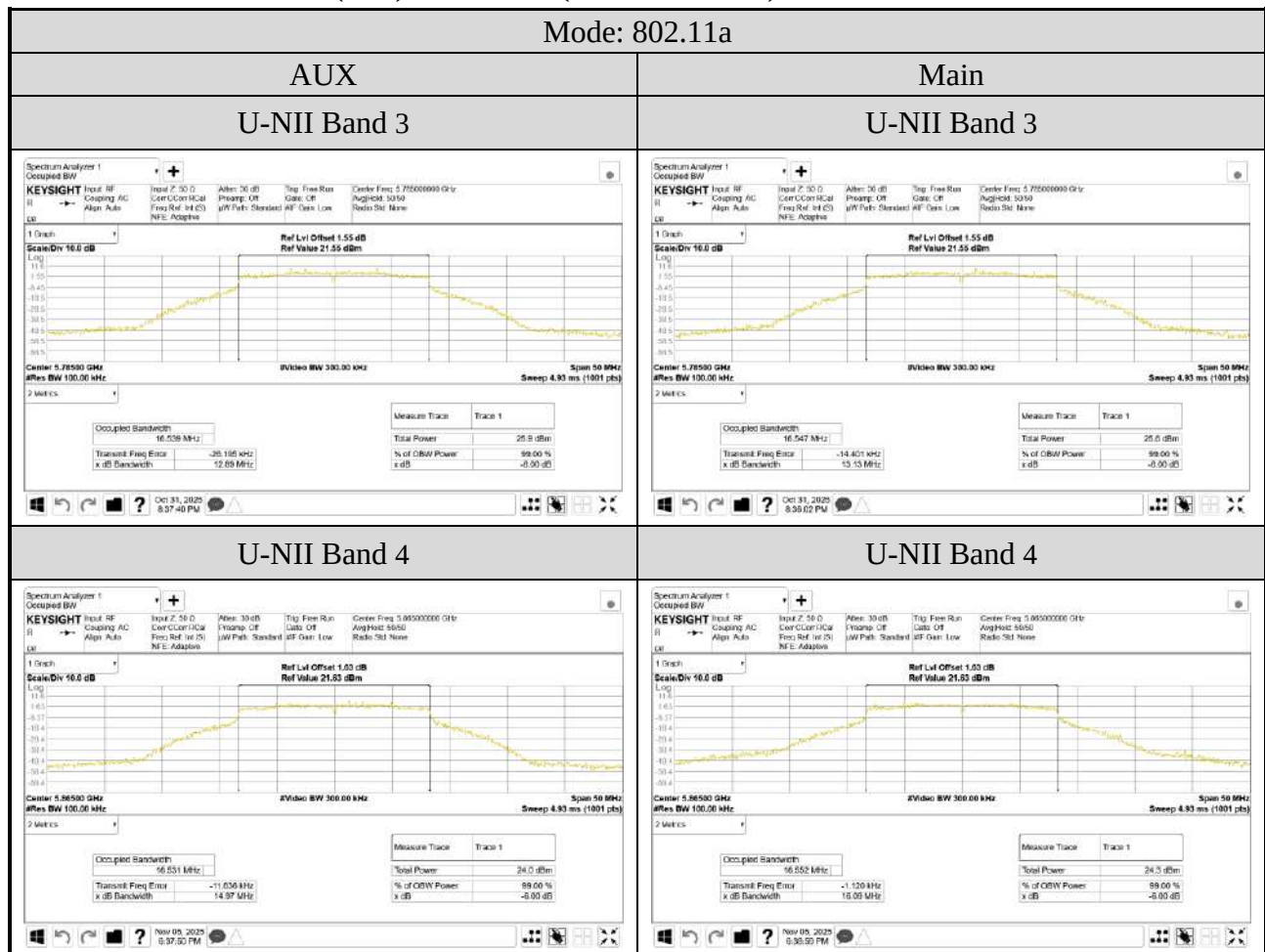






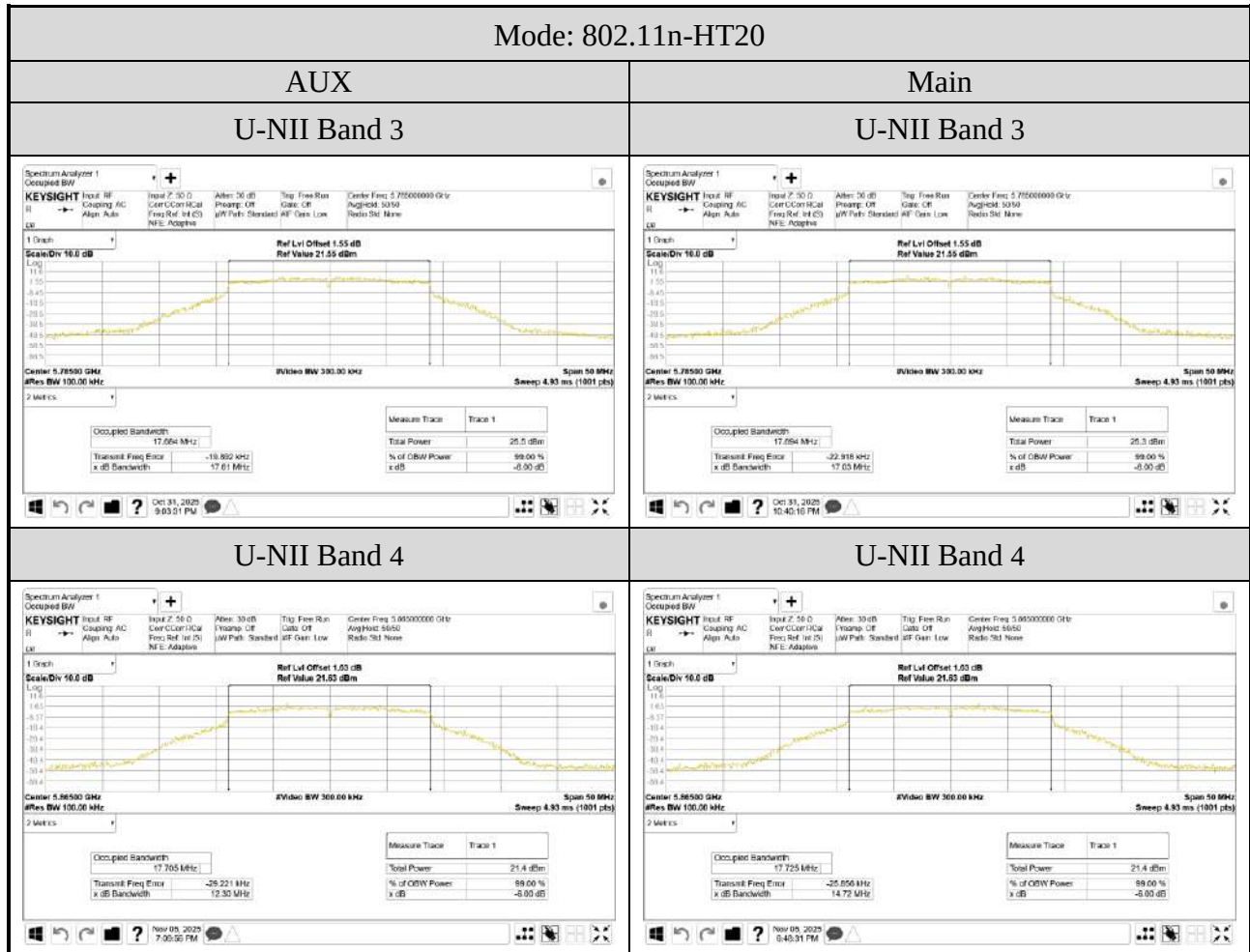


- For Emission (6dB) Bandwidth (U-NII Band 3/4)



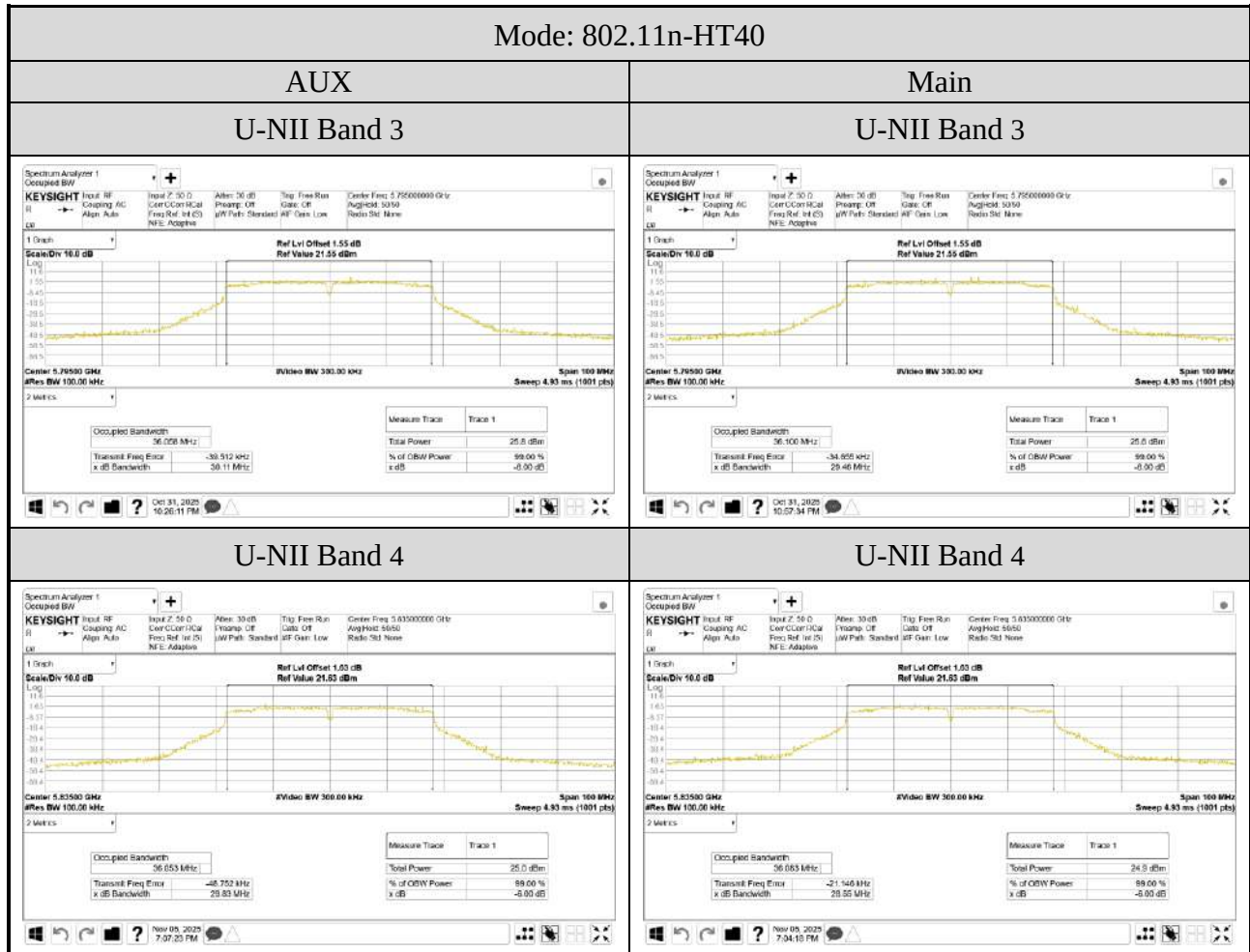
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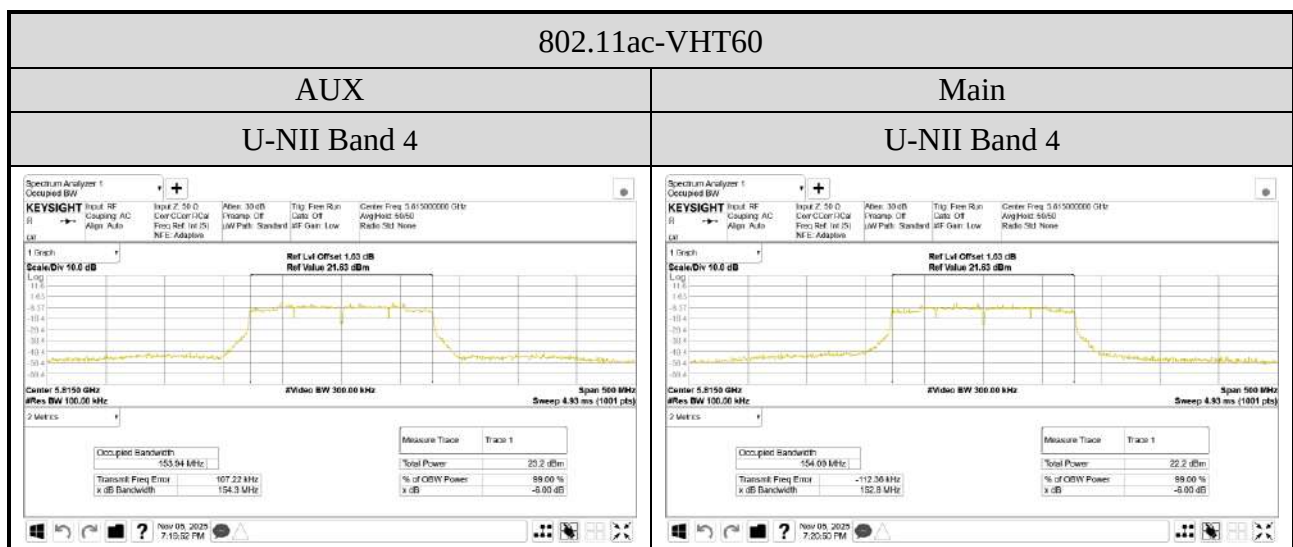
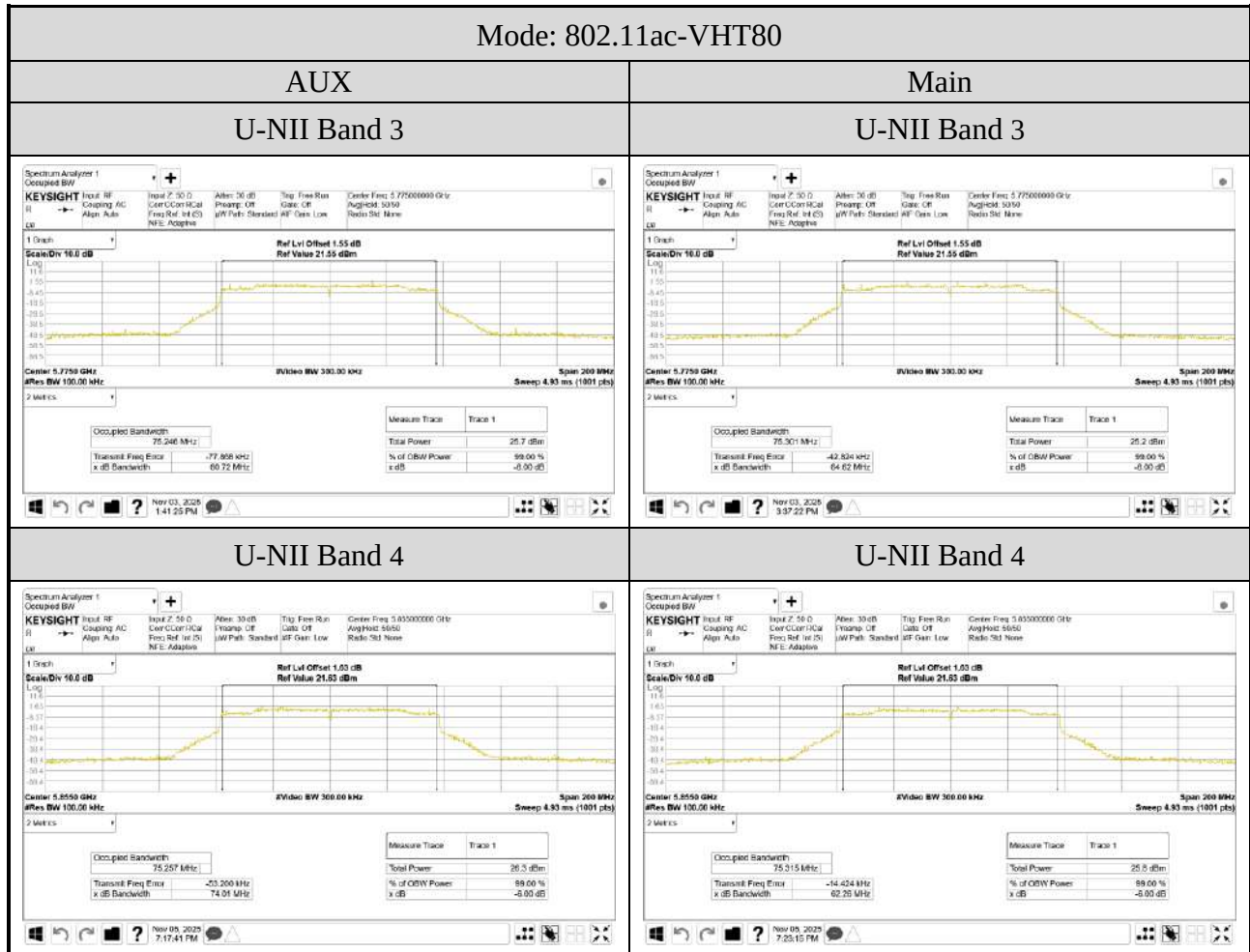
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New Taipei City 244, Taiwan

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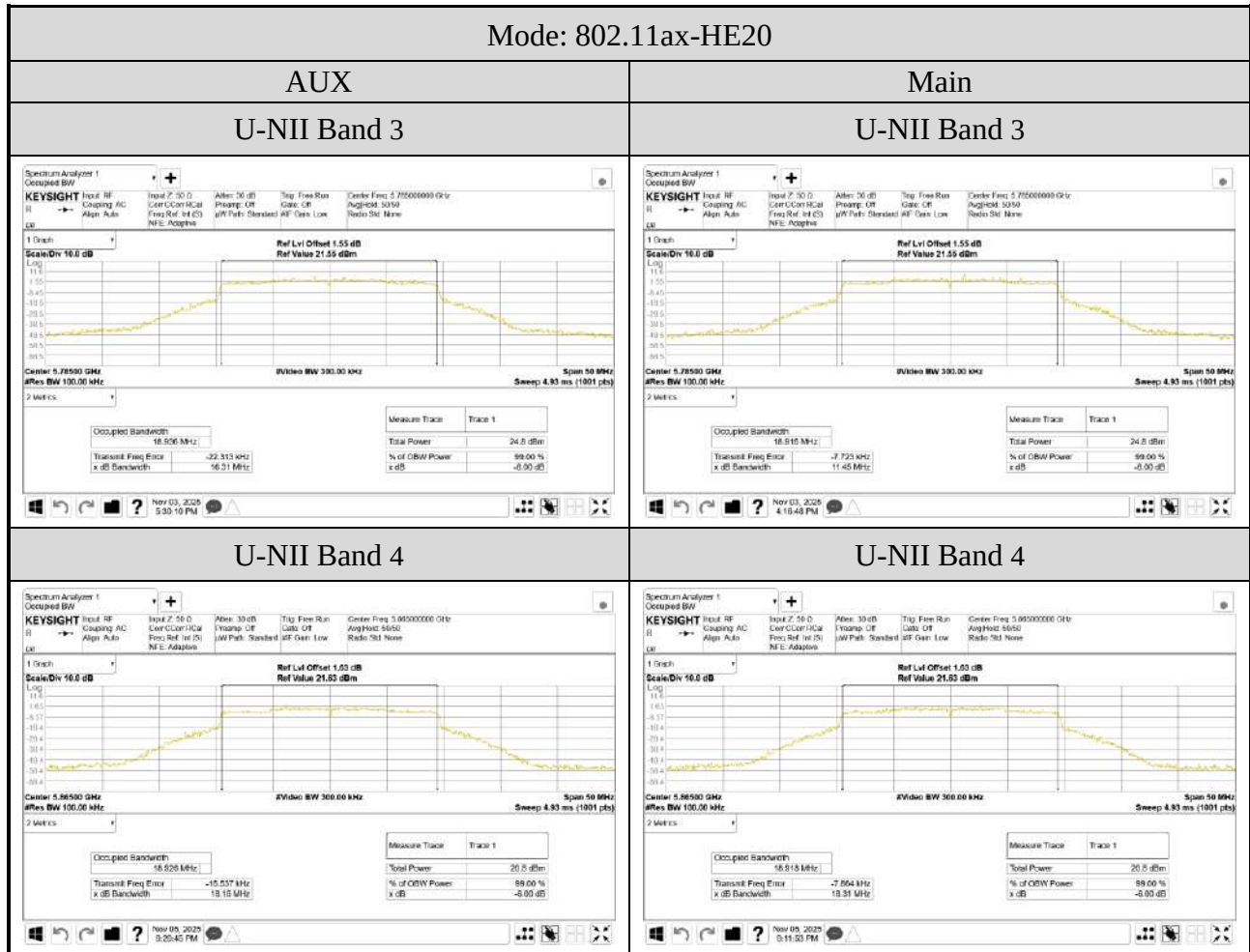
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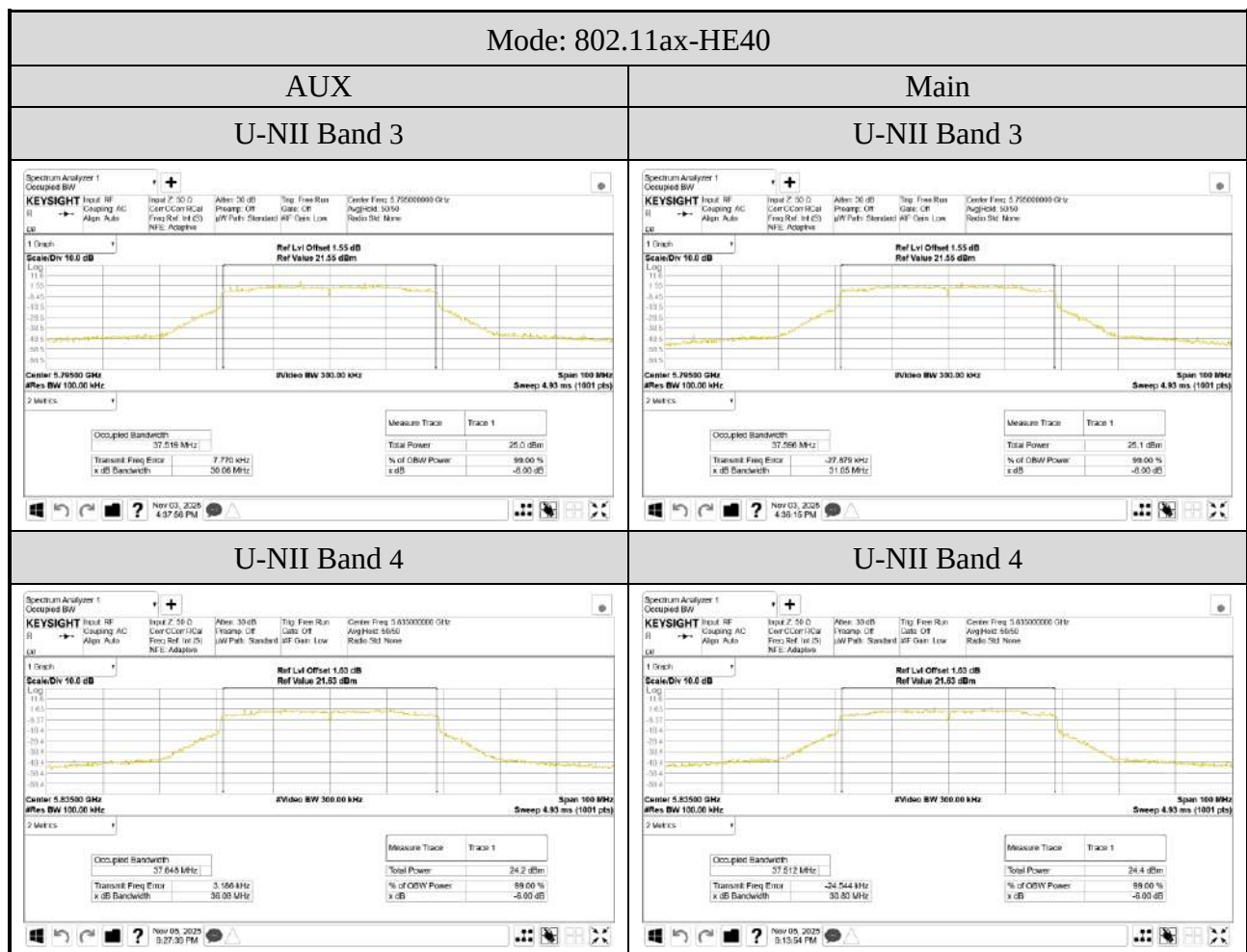
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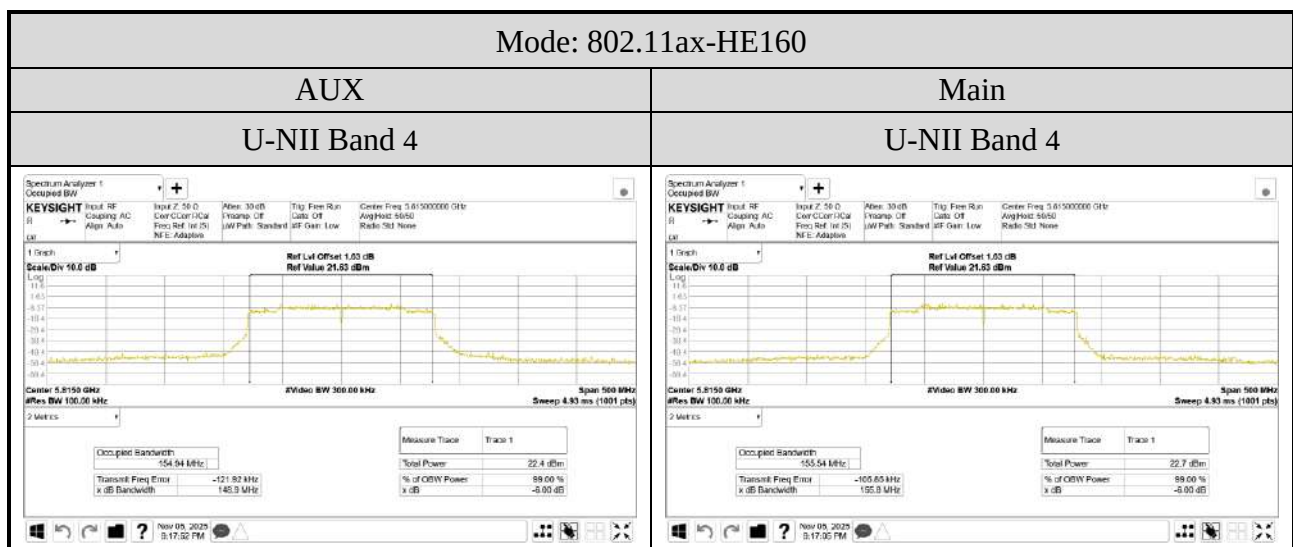
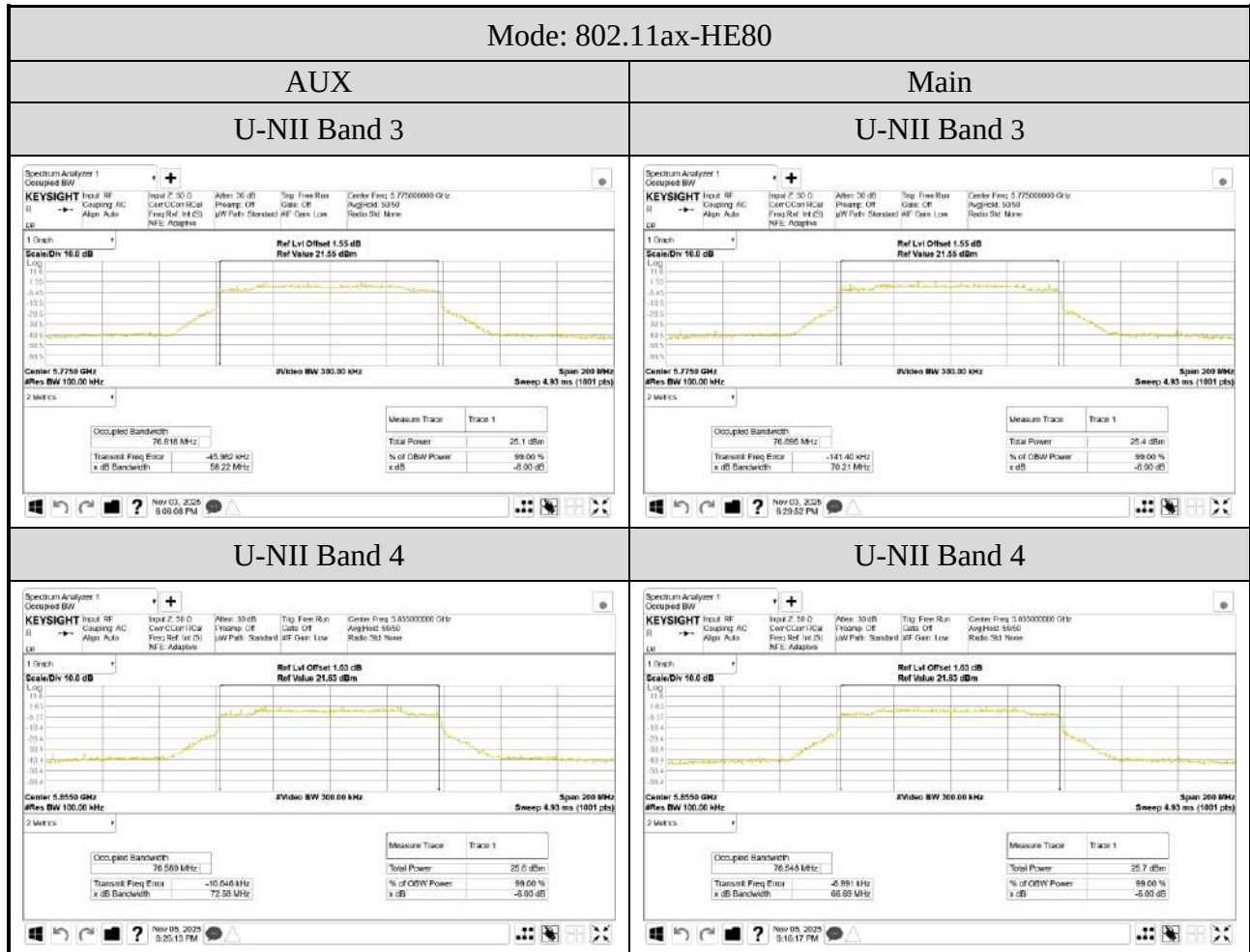
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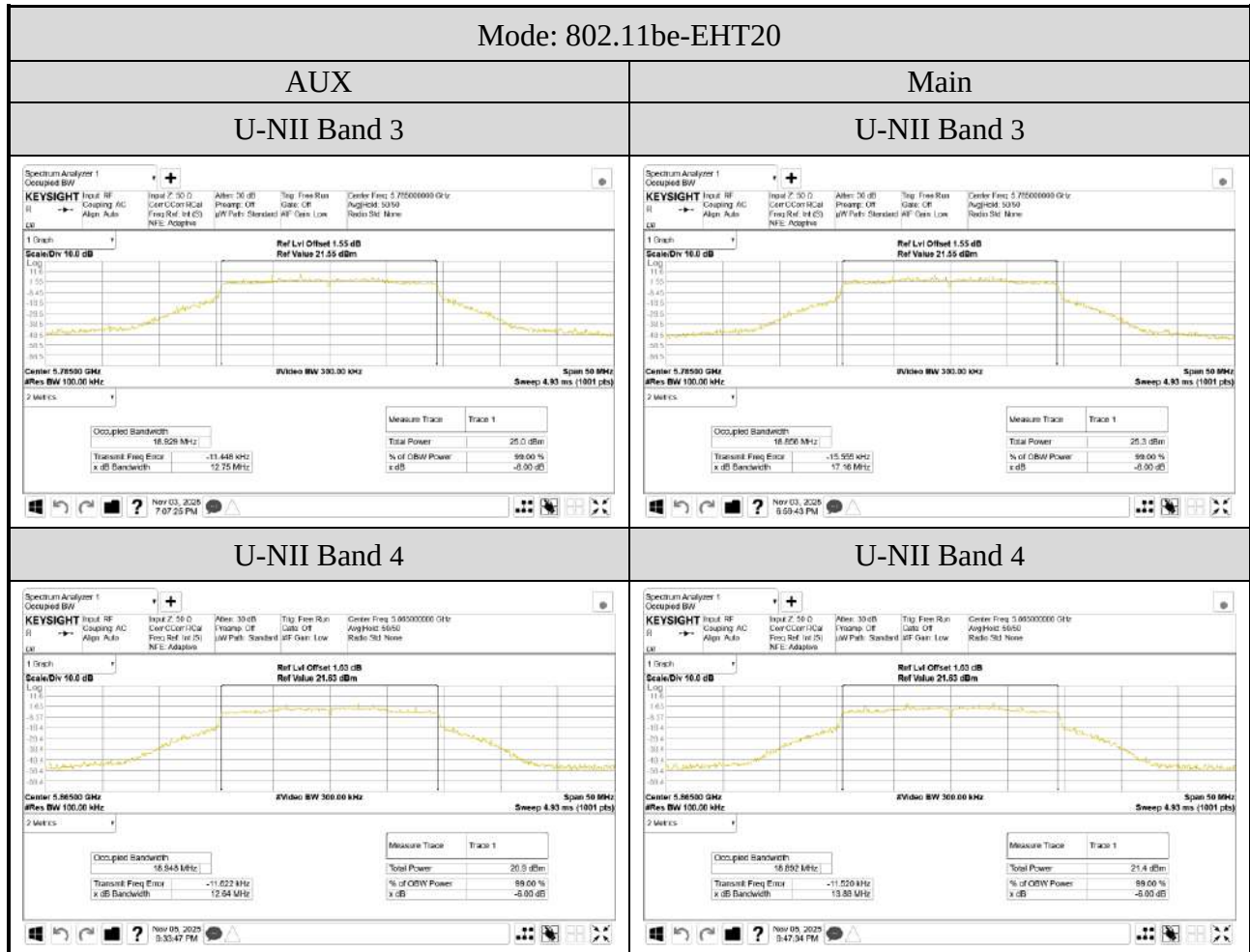
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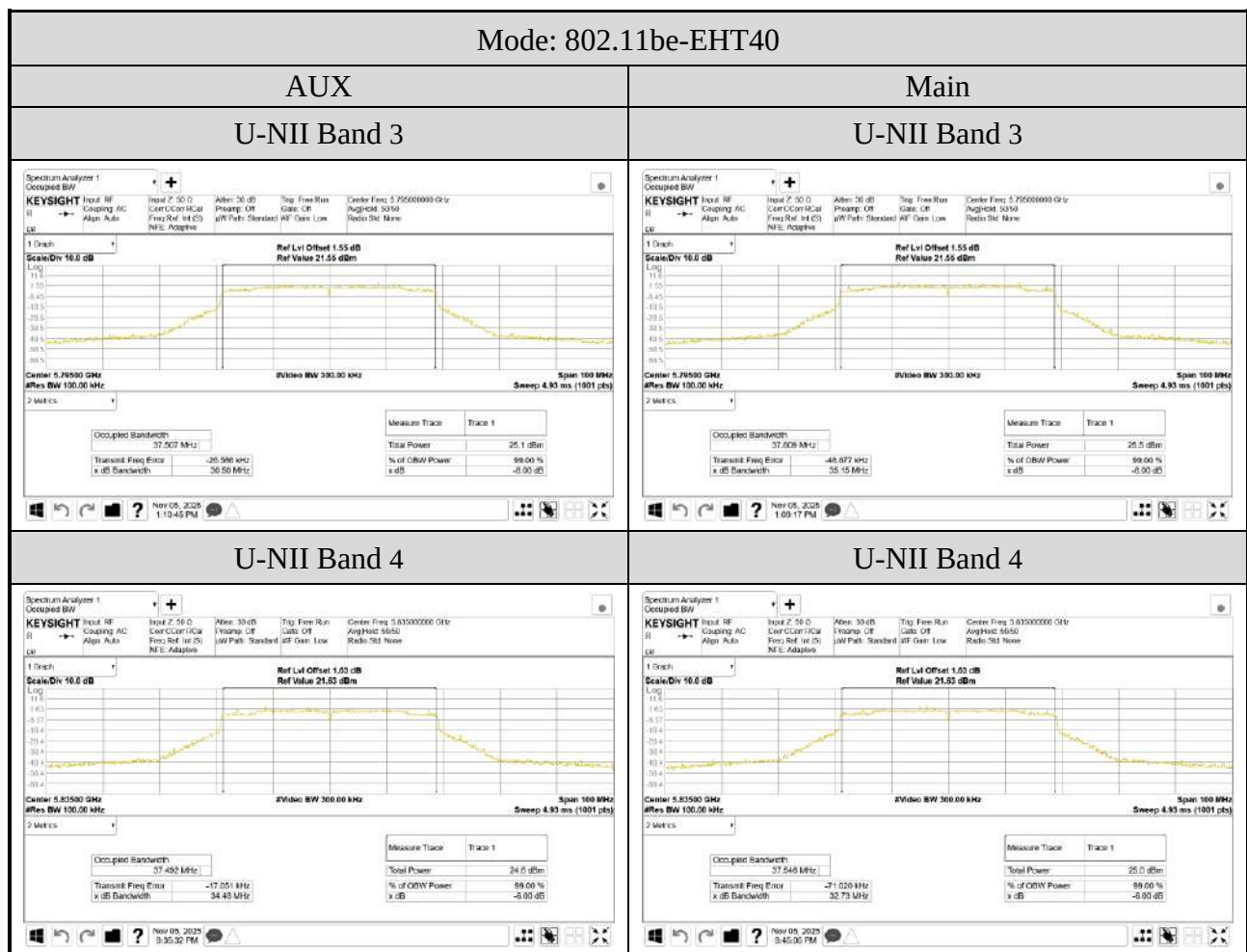
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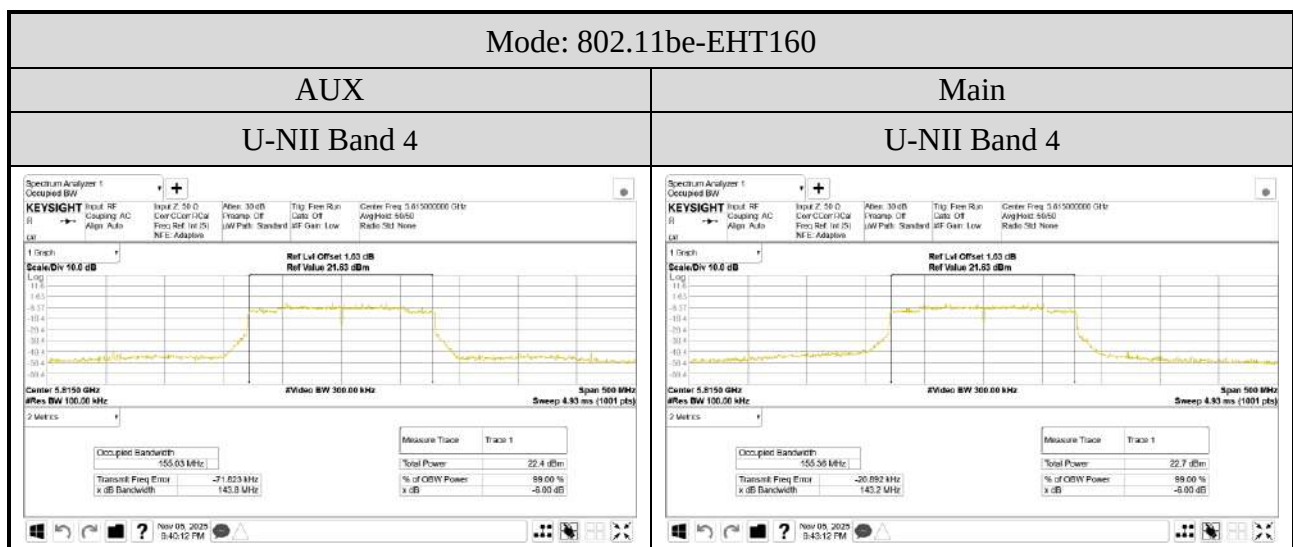
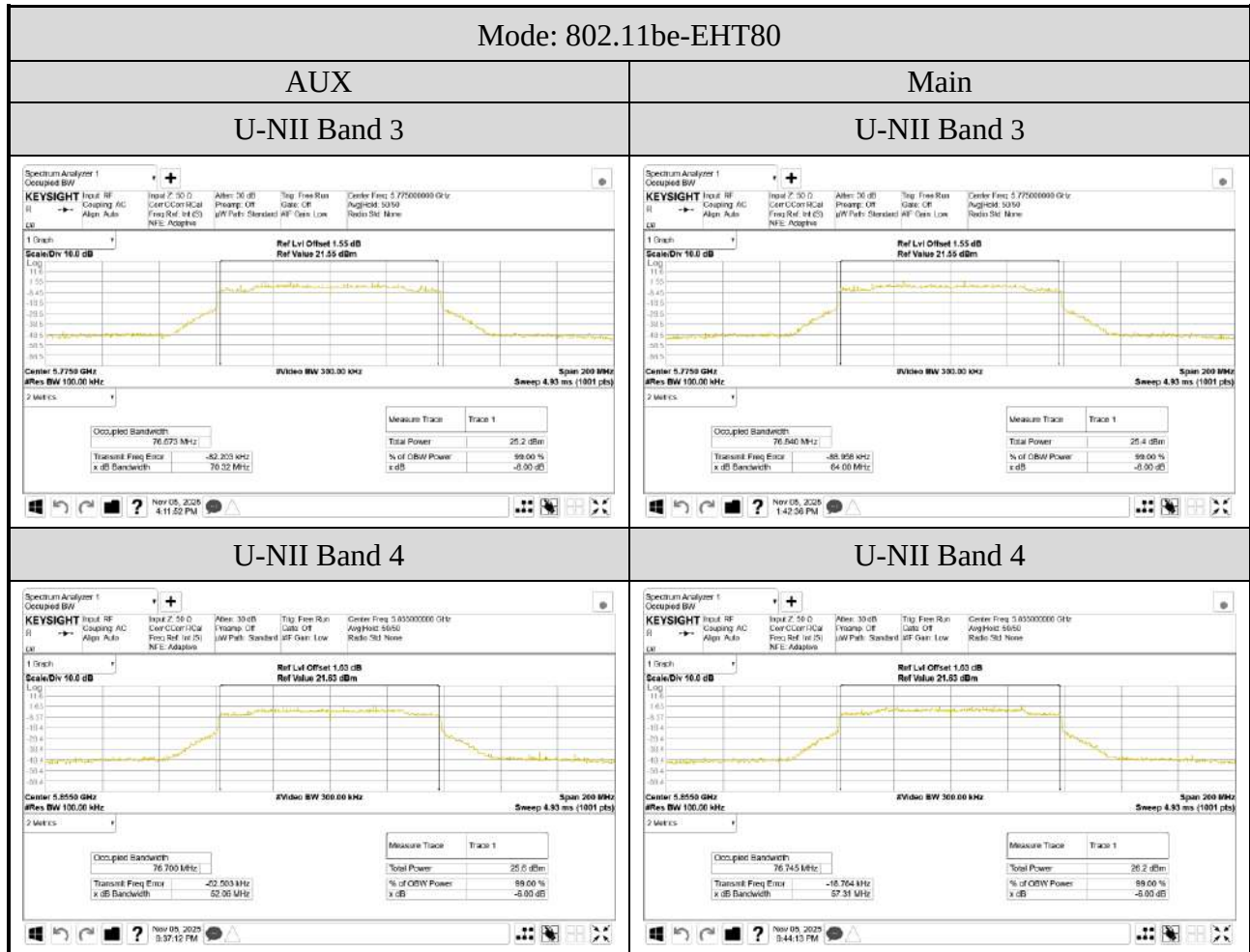
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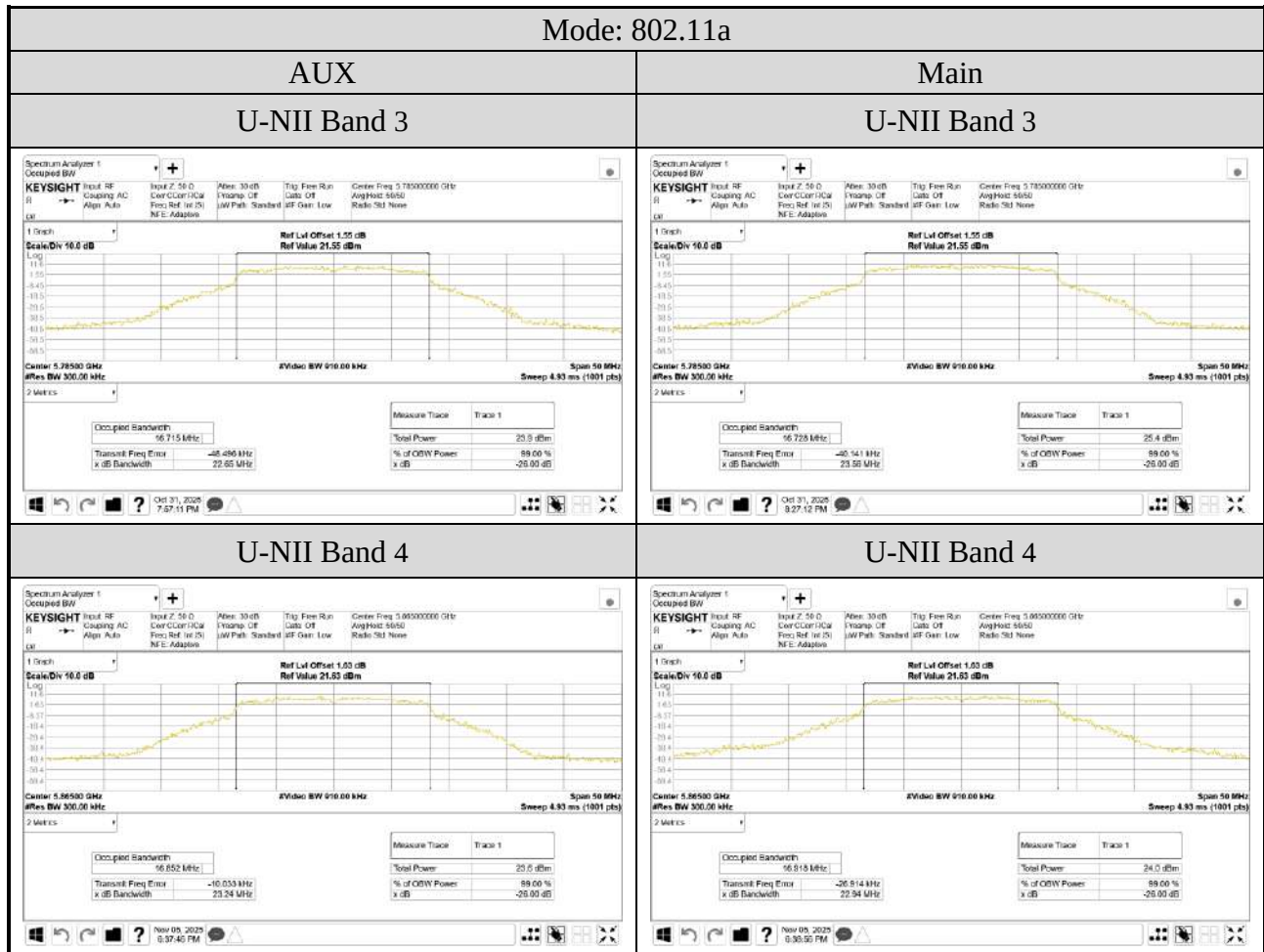
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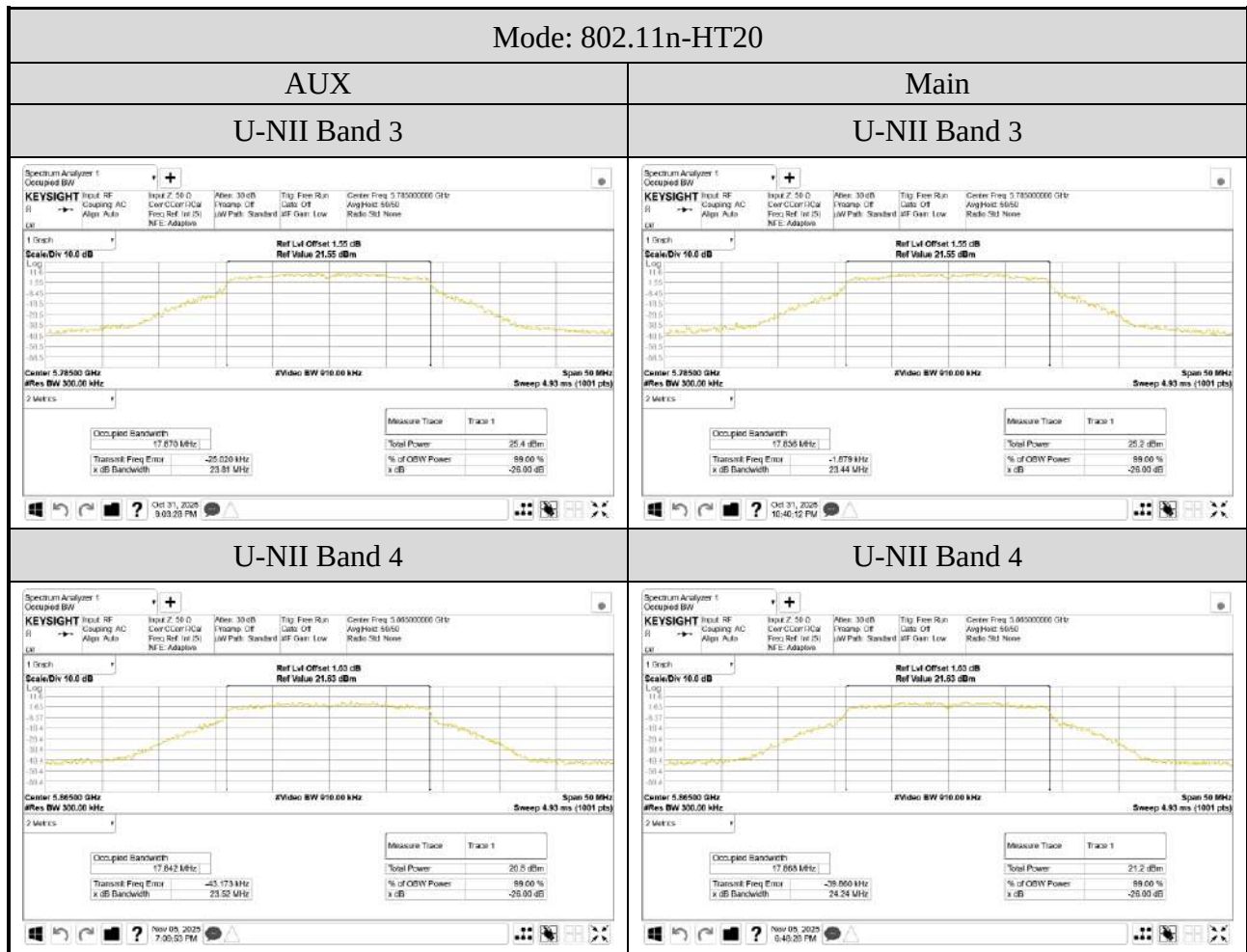
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- For Emission (99%) Bandwidth (U-NII Band 3/4)



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New Taipei City244, Taiwan

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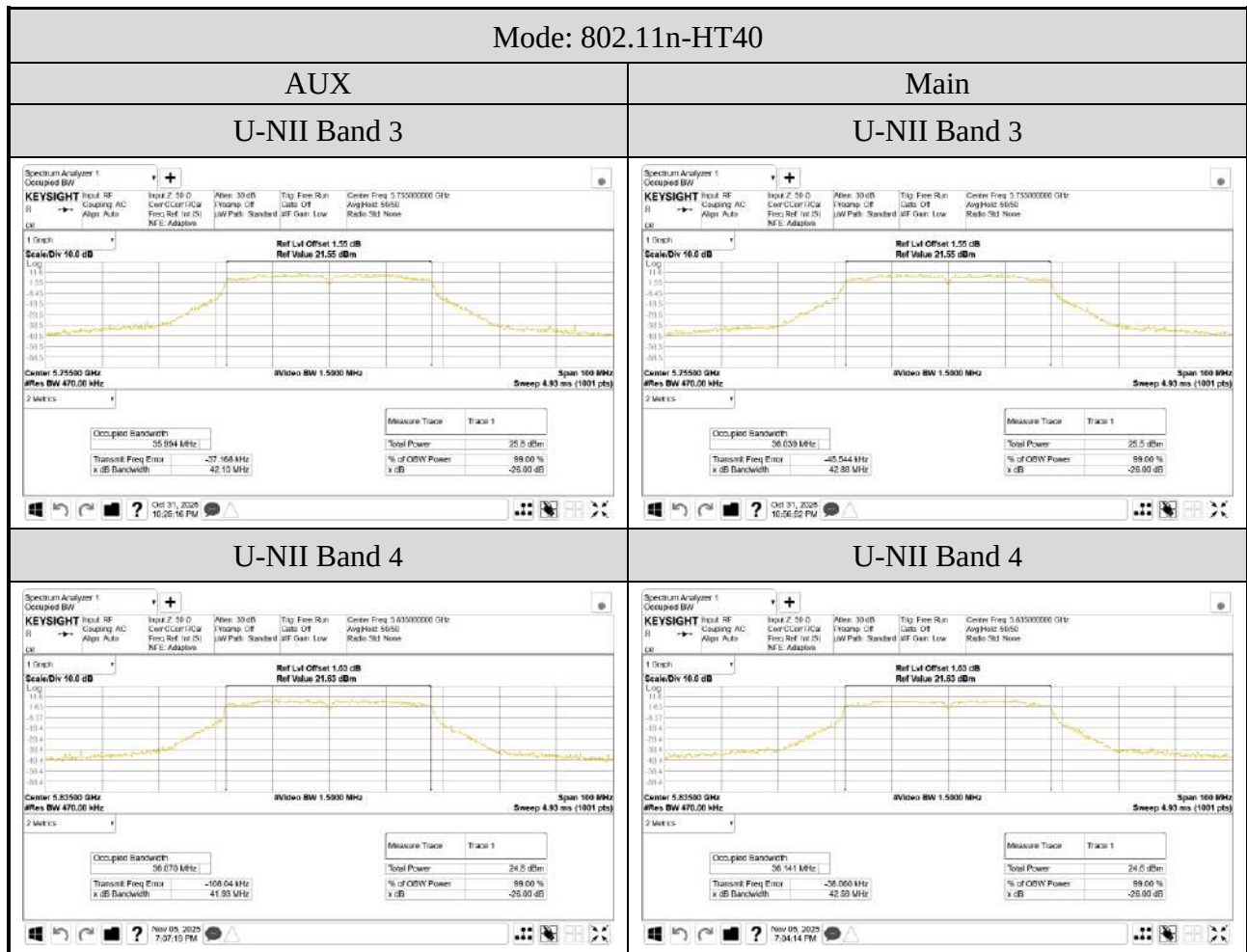
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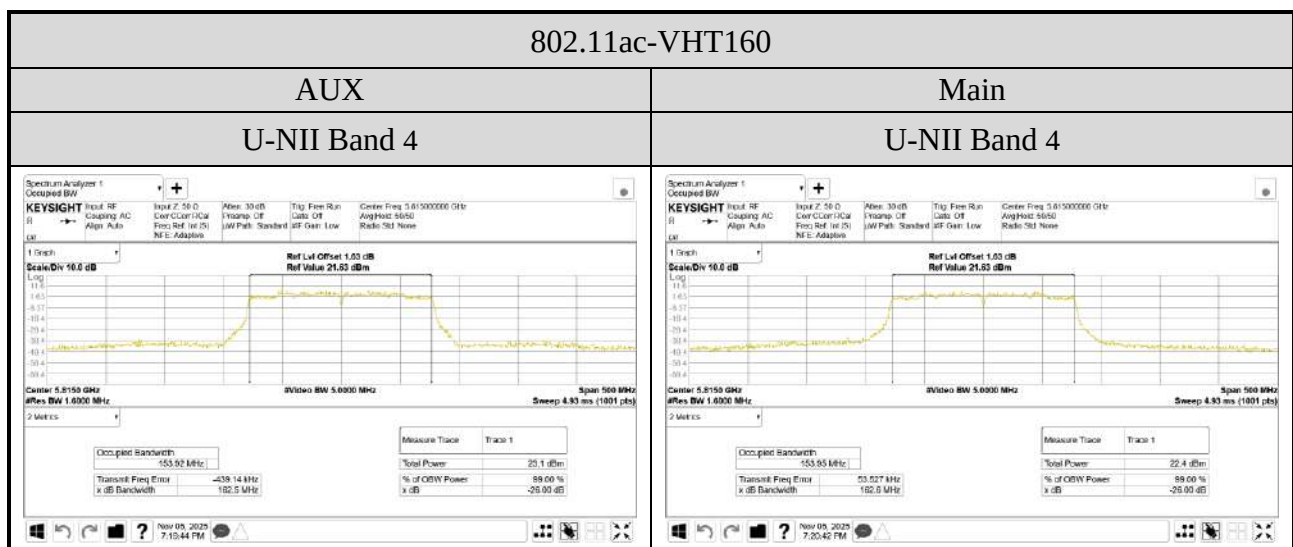
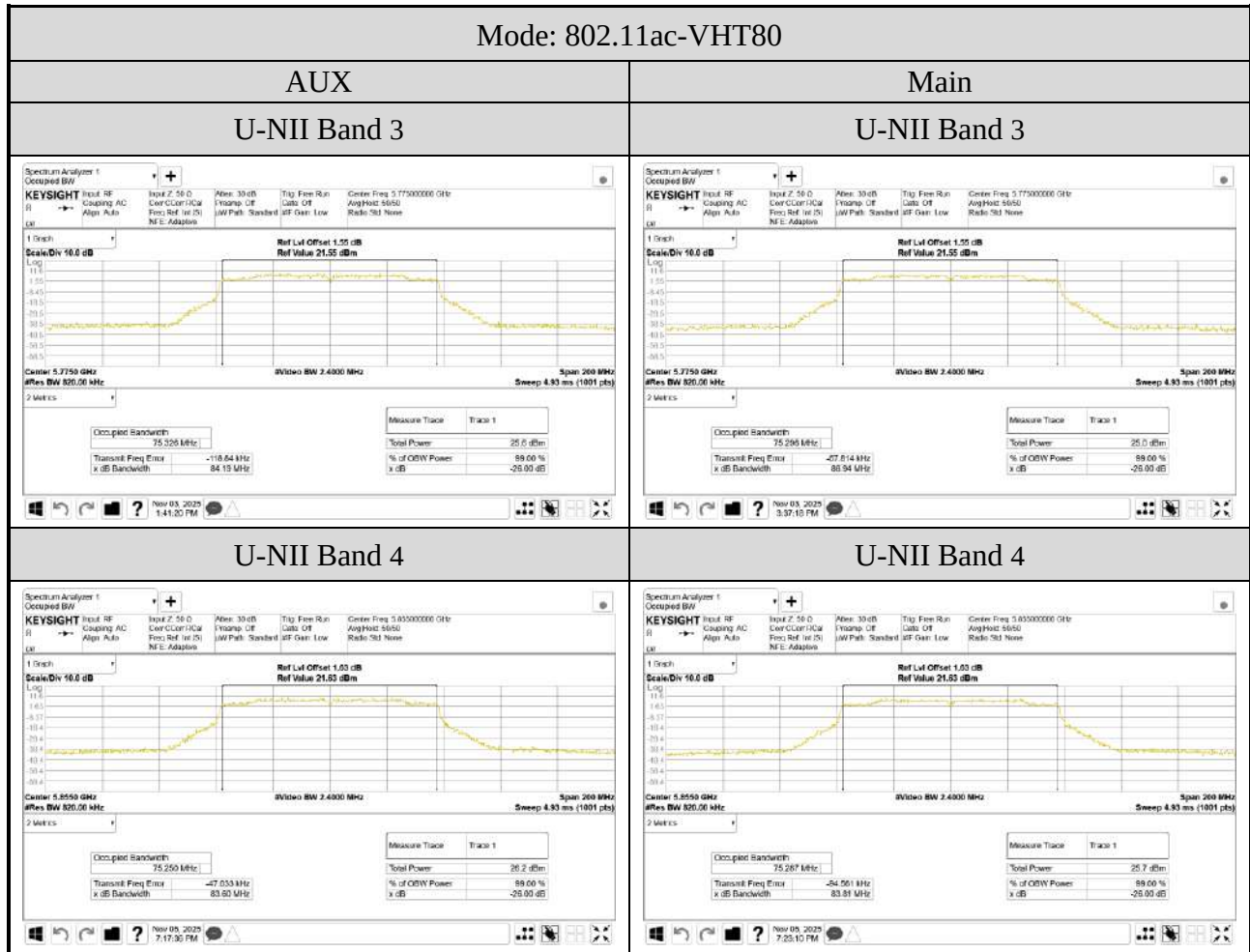
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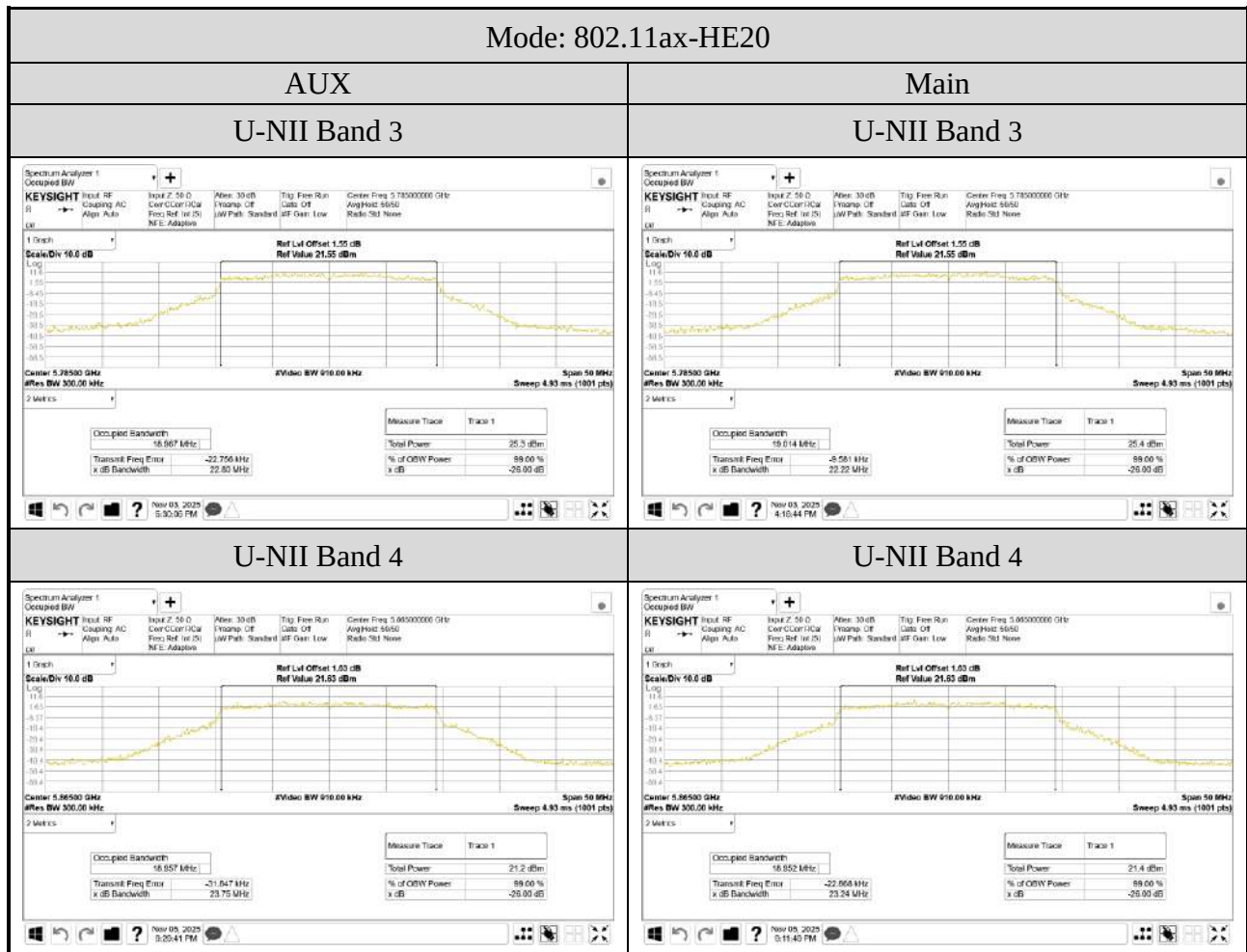
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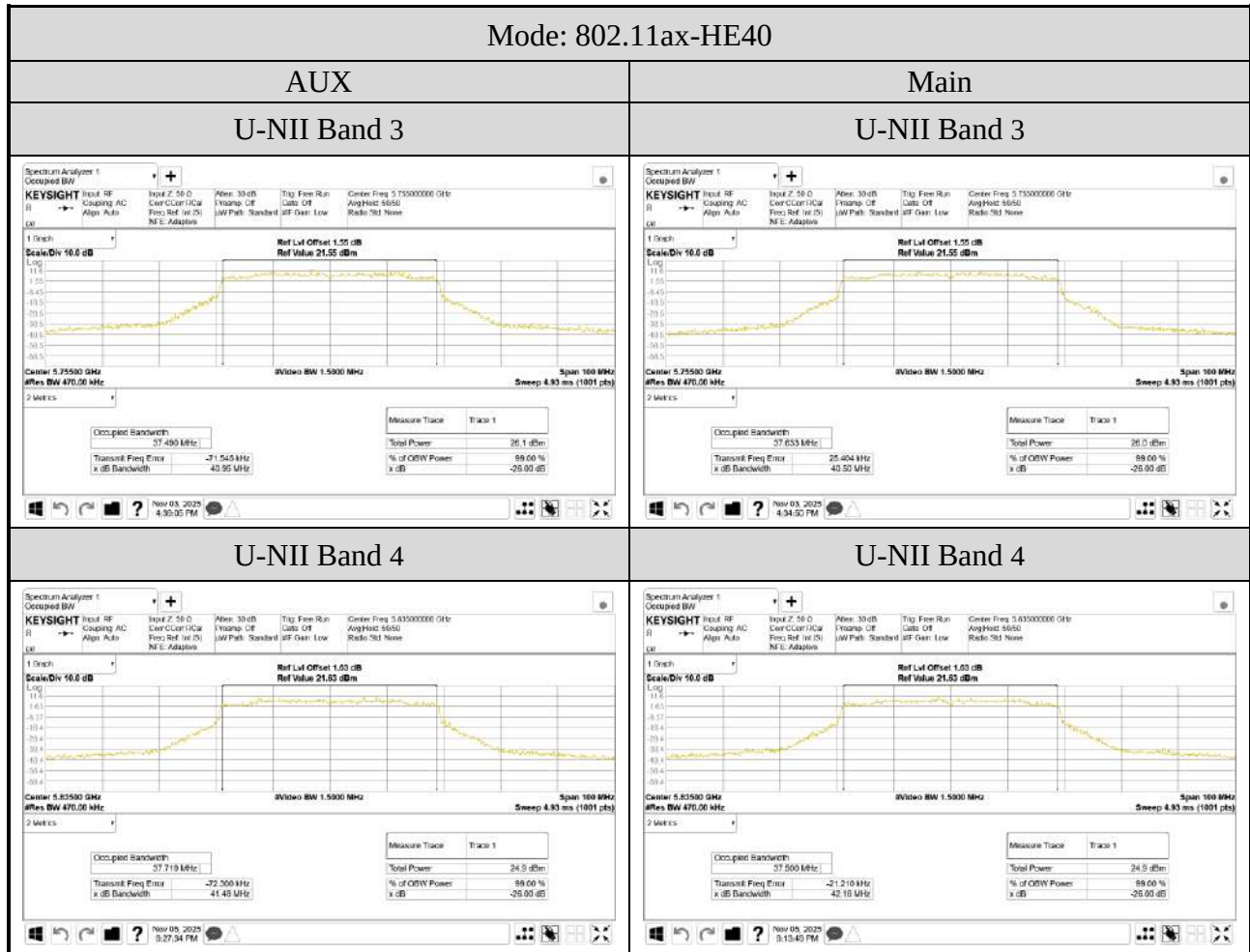
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New Taipei City244, Taiwan

Tel: +886 2 26099301
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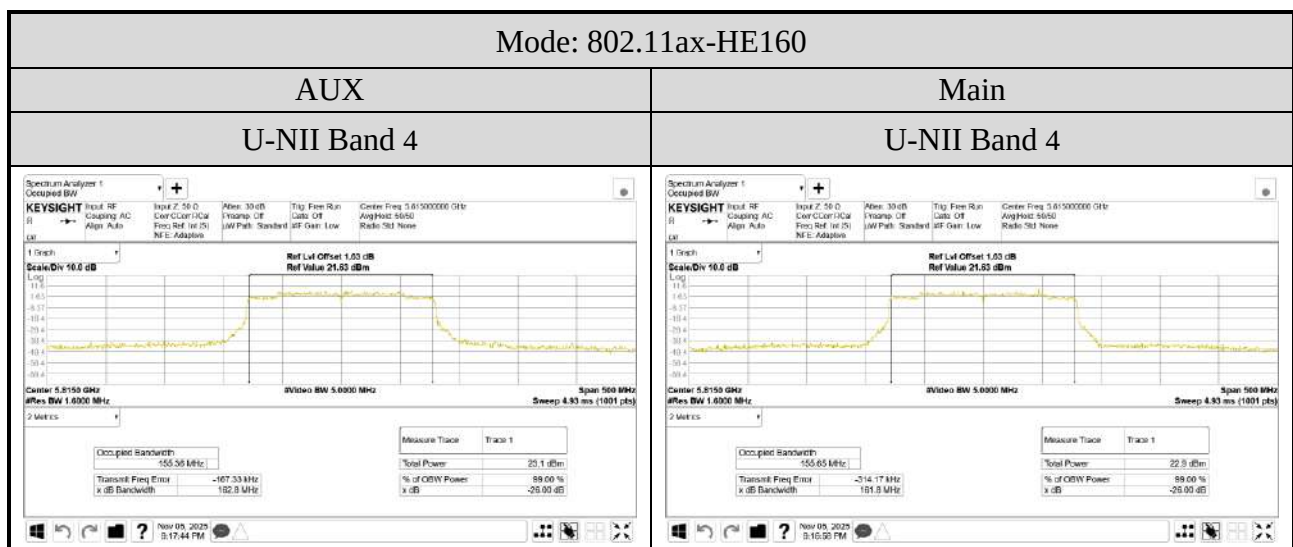
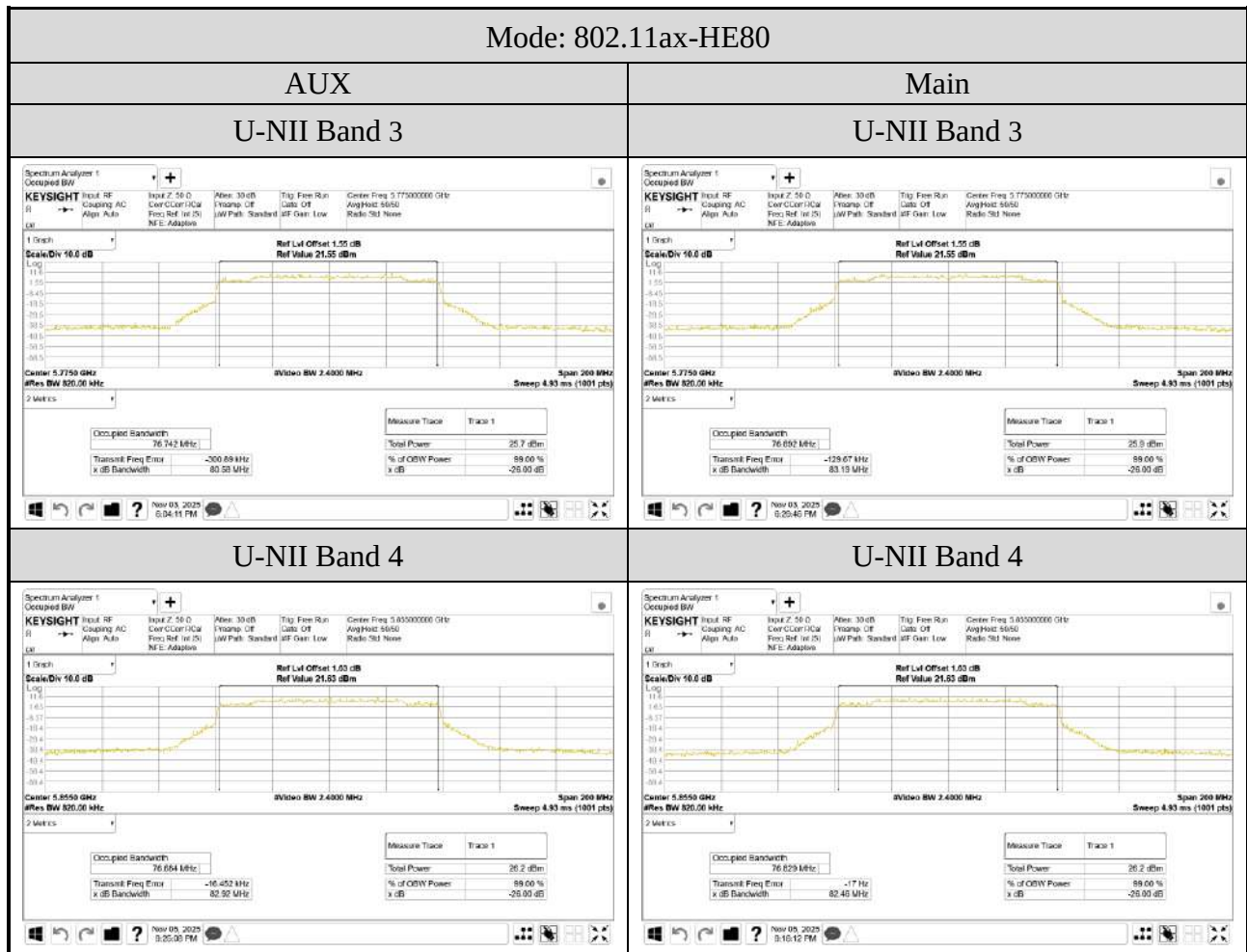
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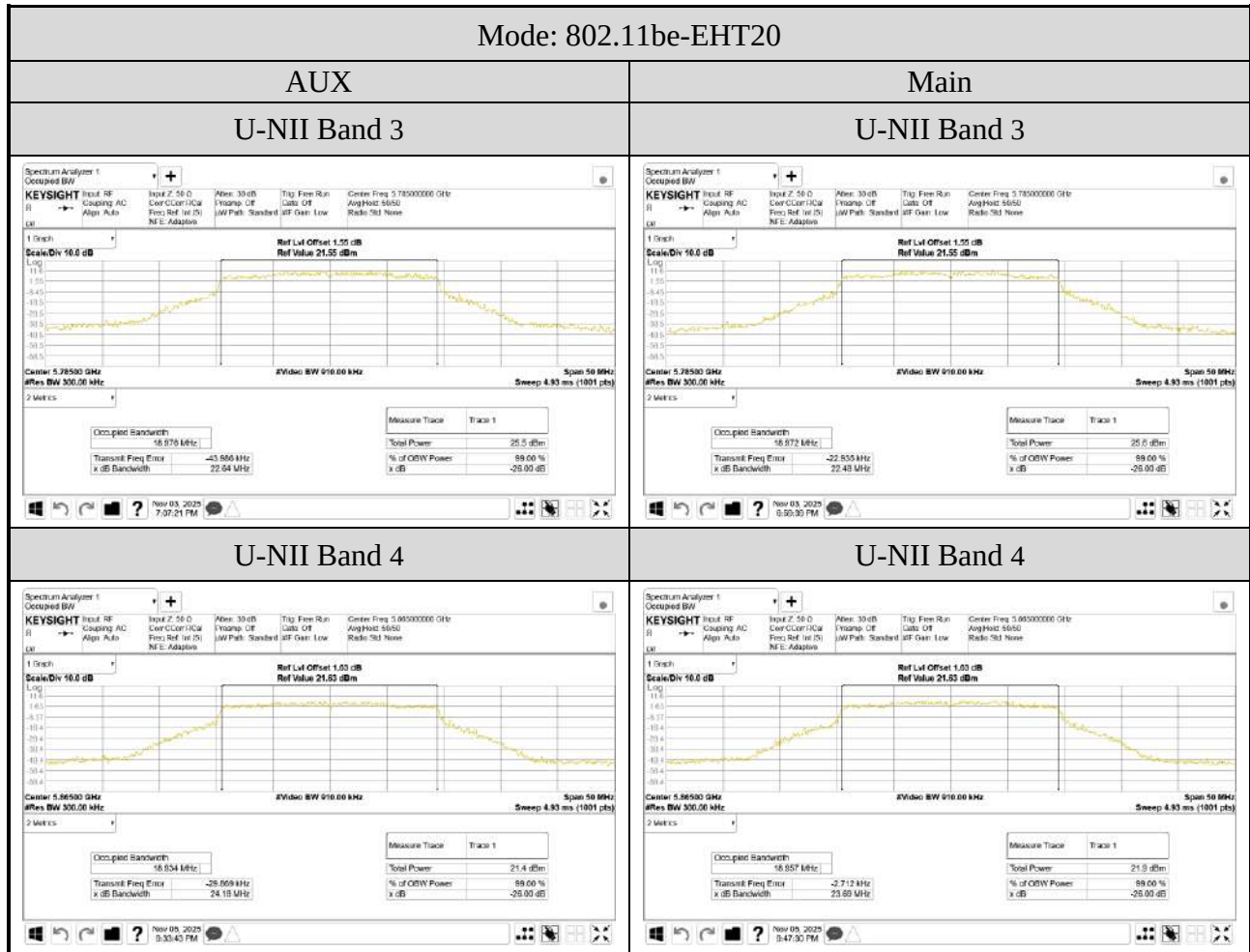
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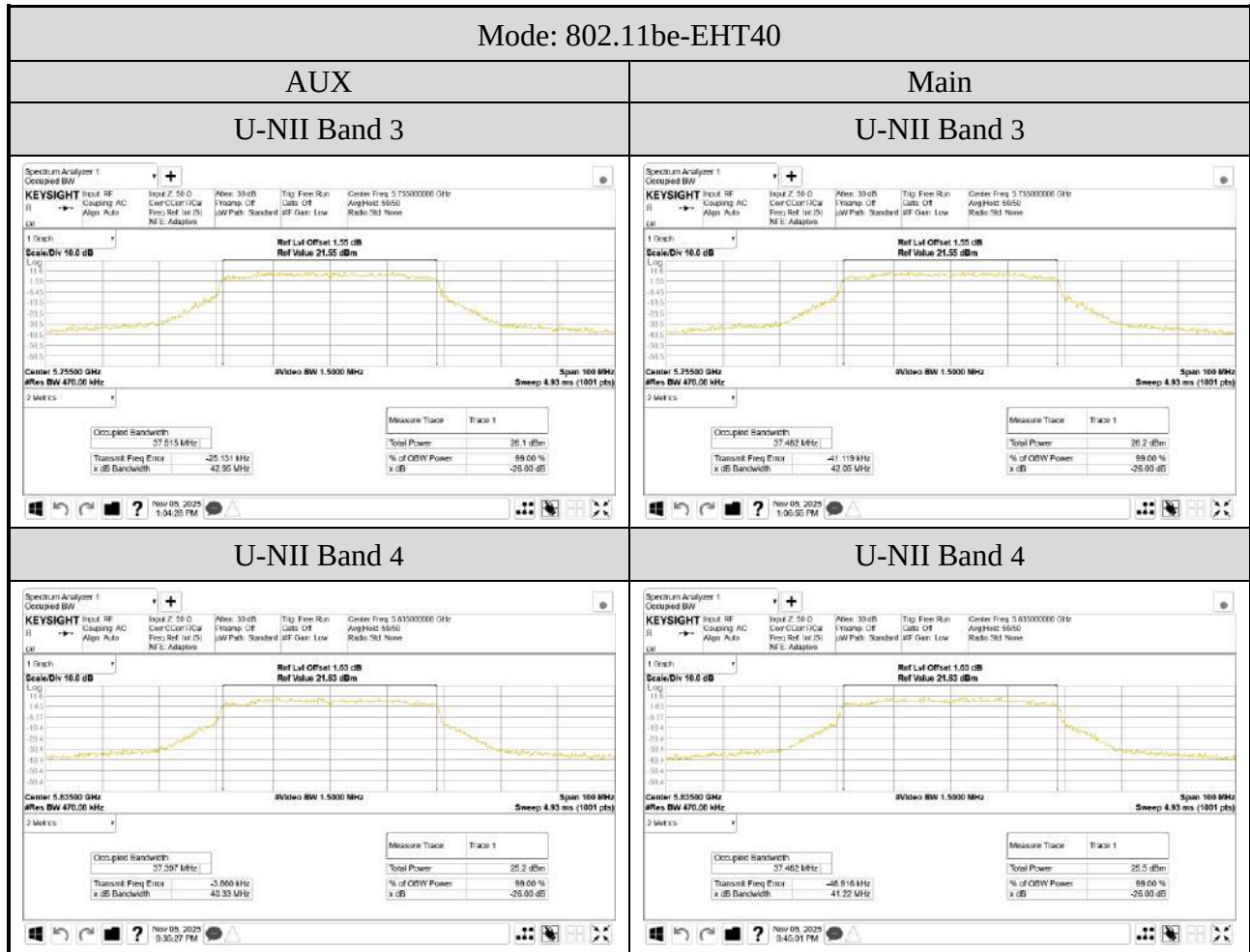
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New Taipei City244, Taiwan

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



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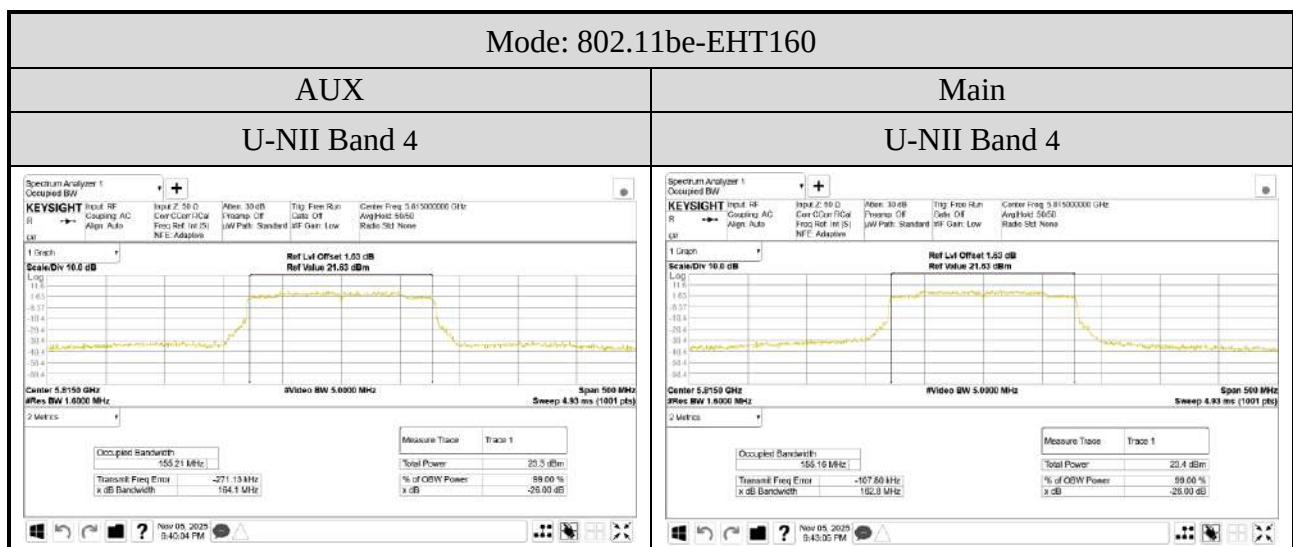
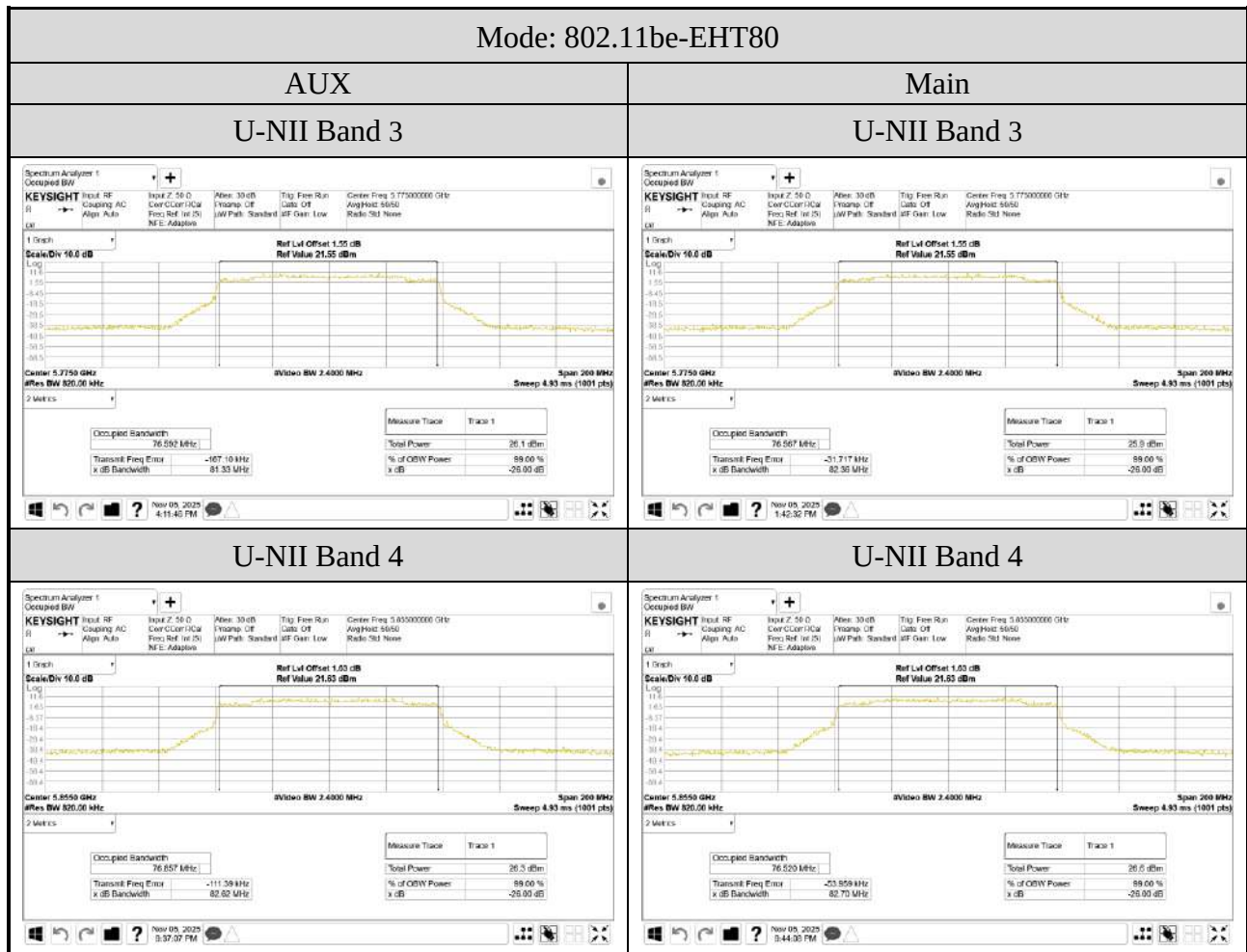
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New Taipei City244, Taiwan

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Fax: +886 2 26099303



Audix Technology Corp.
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New Taipei City244, Taiwan

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

A.4 POWER SPECTRAL DENSITY

Test Date	2025/10/31 ~ 11/06	Temp./Hum.	22 ~ 24℃/62 ~ 65%
Cable Loss	1.54dB/1.55dB/1.61dB/ 1.63dB/1.67dB/1.68dB/1.76dB	Tested By	Chuntse Wu
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)	Max. Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11a	1	5180	8.543	10.581	N/A	10.58	11 dBm/MHz
		5200	8.837	10.334		10.33	
		5240	9.120	10.496		10.50	
	2A	5260	9.349	10.327		10.33	
		5300	8.953	10.193		10.19	
		5320	8.624	10.329		10.33	
	2C	5500	8.788	10.122		10.12	
		5580	8.550	10.465		10.47	
		5700	8.821	9.975		9.98	
		5720	9.559	7.019		9.56	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Max. Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11a	3 ^{Note2}	5745	8.083	9.511	N/A	9.51	30dBm/500 kHz
		5785	7.766	9.166		9.17	
		5825	7.725	9.442		9.44	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

4. Max. Power Spectral Density (dBm/500kHz) = Max of each PSD (dBm/500kHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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New Taipei City 244, Taiwan

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor $10\log(1/X)$	Antenna Gain (dBi)		Max. Power Spectral Density (dBm/1MHz) ^{Note 2}	Limit
			AUX	Main		AUX	Main		
802.11a	4	5845	7.814	8.040	N/A	1.92	1.55	8.04	14dBm/MHz (E.I.R.P.)
		5865	7.414	8.050		1.92	1.55	8.05	
		5885	7.957	8.713		1.92	1.55	8.71	

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)2a), 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%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11n-HT20	1	5180	7.136	7.782	N/A	10.48	11 dBm/MHz
		5200	7.158	7.883		10.55	
		5240	7.513	7.703		10.62	
	2A	5260	7.630	7.668		10.66	
		5300	7.339	7.440		10.40	
		5320	7.053	7.303		10.19	
	2C	5500	7.330	7.232		10.29	
		5580	7.226	7.367		10.31	
		5700	7.163	7.365		10.28	
		5720	7.330	7.159		10.26	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11n-HT20	3 ^{Note2}	5745	9.294	9.070	N/A	12.19	30dBm/500 kHz
		5785	9.014	8.911		11.97	
		5825	9.339	8.814		12.09	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

Audix Technology Corp.

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Tel: +886 2 26099301

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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 4}	Total Power Spectral Density (dBm/1MHz) ^{Note 3}	Limit
802.11n-HT20	4	5845	4.634	4.550	N/A	1.74	9.34	14dBm/MHz (E.I.R.P.)
		5865	4.513	4.930		1.74	9.48	
		5885	4.744	5.155		1.74	9.70	

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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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

Audix Technology Corp.
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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11n-HT40	1	5190	3.425	4.049	N/A	6.76	11 dBm/MHz
		5230	3.986	4.426		7.22	
	2A	5270	4.127	4.244		7.20	
		5310	3.234	3.486		6.37	
	2C	5510	5.032	5.002		8.03	
		5550	3.857	4.187		7.04	
		5670	5.687	5.816		8.76	
		5710	5.854	5.802		8.84	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11n-HT40	3 ^{Note2}	5755	5.775	5.875	N/A	8.84	30dBm/500 kHz
		5795	5.661	5.384		8.54	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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-HT40	4	5835	4.700	4.687	N/A	1.74	9.44	14dBm/MHz (E.I.R.P.)
		5875	5.383	4.866		1.74	9.88	

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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ac-VHT80	1	5210	1.376	2.161	N/A	4.80	11 dBm/MHz
	2A	5290	0.575	0.498		3.55	
	2C	5530	1.252	1.691		4.49	
		5610	2.839	3.326		6.10	
		5690	2.528	2.847		5.70	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ac-VHT80	3 Note2	5775	1.401	1.292	N/A	4.36	30dBm/500 kHz

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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
802.11ac-VHT80	4	5855	2.100	1.807	N/A	1.74	6.71	14dBm/MHz (E.I.R.P.)

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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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

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)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ac-VHT160	1/2A	5250	-4.584	-4.074	N/A	-1.31	11 dBm/MHz
	2C	5570	-3.507	-3.292		-0.39	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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
802.11ac-VHT160	4	5815	-4.491	-5.184	N/A	1.74	-0.07	14dBm/MHz (E.I.R.P.)

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE20	1	5180	6.921	7.136	N/A	10.04	11 dBm/MHz
		5200	6.591	7.082		9.85	
		5240	6.983	7.257		10.13	
	2A	5260	7.176	6.987		10.09	
		5300	6.682	6.791		9.75	
		5320	6.356	6.692		9.54	
	2C	5500	6.633	6.682		9.67	
		5580	6.827	6.945		9.90	
		5700	6.469	6.610		9.55	
		5720	6.492	6.790		9.65	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE20	3 ^{Note2}	5745	8.483	8.572	N/A	11.54	30dBm/500 kHz
		5785	8.144	8.172		11.17	
		5825	8.208	8.318		11.27	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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New Taipei City244, Taiwan

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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 4}	Total Power Spectral Density (dBm/1MHz) ^{Note 3}	Limit
802.11ax-HE20	4	5845	4.056	3.974	N/A	1.74	8.77	14dBm/MHz (E.I.R.P.)
		5865	4.086	4.055		1.74	8.82	
		5885	4.464	4.320		1.74	9.14	

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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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New Taipei City244, Taiwan

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Fax: +886 2 26099303

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE40	1	5190	2.935	3.665	N/A	6.33	11 dBm/MHz
		5230	3.623	3.899		6.77	
	2A	5270	3.571	3.852		6.72	
		5310	2.872	2.947		5.92	
	2C	5510	4.481	4.568		7.54	
		5550	3.337	3.489		6.42	
		5670	4.859	5.506		8.20	
		5710	5.323	5.538		8.44	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE40	3 ^{Note2}	5755	5.014	5.125	N/A	8.08	30dBm/500 kHz
		5795	4.688	4.841		7.78	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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
802.11ax-HE40	4	5835	4.191	4.138	N/A	1.74	8.91	14dBm/MHz (E.I.R.P.)
		5875	4.282	4.425		1.74	9.10	

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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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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)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE80	1	5210	1.564	2.240	N/A	4.93	11 dBm/MHz
	2A	5290	0.655	0.613		3.64	
	2C	5530	1.356	1.575		4.48	
		5610	3.084	3.183		6.14	
		5690	2.914	2.977		5.96	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE80	3 Note2	5775	1.393	1.753	N/A	4.59	30dBm/500 kHz

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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
802.11ax-HE80	4	5855	1.822	2.003	N/A	1.74	6.66	14dBm/MHz (E.I.R.P.)

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

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

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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) Note 3	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE160	1/2A	5250	-4.496	-3.909	N/A	-1.18	11 dBm/MHz
	2C	5570	-3.615	-3.078		-0.33	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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
802.11ax-HE160	4	5815	-4.748	-5.080	N/A	1.74	-0.16	14dBm/MHz (E.I.R.P.)

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

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11ax-HE20	1	5180	26/0	7.111	7.691	N/A	10.42	11 dBm/MHz
			52/37	7.053	7.765	N/A	10.43	
			106/53	7.396	7.884	N/A	10.66	
	2A	5320	26/8	6.635	6.940	N/A	9.80	
			52/40	6.845	7.221	N/A	10.05	
			106/54	7.190	7.375	N/A	10.29	
	2C	5500	26/0	7.359	7.562	N/A	10.47	
			52/37	7.347	7.748	N/A	10.56	
			106/53	7.192	7.576	N/A	10.40	
		5700	26/8	6.730	7.125	N/A	9.94	
			52/40	6.864	7.463	N/A	10.18	
			106/54	7.046	7.404	N/A	10.24	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11ax-HE20	3 ^{Note2}	5745	26/0	16.304	16.789	N/A	19.56	30dBm/ 500 kHz
			52/37	13.983	14.390	N/A	17.20	
			106/53	11.327	11.626	N/A	14.49	
		5825	26/8	16.476	16.896	N/A	19.70	
			52/40	14.125	14.532	N/A	17.34	
			106/54	10.842	12.066	N/A	14.51	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

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			AUX	Main			
802.11be-EHT20	1	5180	6.575	7.371	N/A	10.00	11 dBm/MHz
		5200	6.400	7.332		9.90	
		5240	6.827	7.504		10.19	
	2A	5260	7.049	7.279		10.18	
		5300	6.863	7.069		9.98	
		5320	6.338	6.987		9.68	
	2C	5500	6.511	6.866		9.70	
		5580	6.599	7.356		10.00	
		5700	6.856	7.025		9.95	
		5720	6.833	6.789		9.82	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11be-EHT20	3 ^{Note2}	5745	8.947	8.711	N/A	11.84	30dBm/500 kHz
		5785	8.410	8.616		11.52	
		5825	8.390	8.315		11.36	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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

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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 4}	Total Power Spectral Density (dBm/1MHz) ^{Note 3}	Limit
802.11be-HHT20	4	5845	4.419	4.543	N/A	1.74	9.23	14dBm/MHz (E.I.R.P.)
		5865	4.505	4.820		1.74	9.42	
		5885	4.646	4.820		1.74	9.48	

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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74 \text{ dBi}$$

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11be-EHT40	1	5190	2.775	3.809	N/A	6.33	11 dBm/MHz
		5230	3.591	4.075		6.85	
	2A	5270	3.699	3.970		6.85	
		5310	2.894	3.095		6.01	
	2C	5510	4.460	4.945		7.72	
		5550	3.271	3.658		6.48	
		5670	5.163	5.568		8.38	
		5710	5.244	5.648		8.46	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11be-EHT40	3 ^{Note2}	5755	5.183	5.147	N/A	8.18	30dBm/500 kHz
		5795	5.082	4.949		8.03	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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
802.11be-HHT40	4	5835	4.225	4.516	N/A	1.74	9.12	14dBm/MHz (E.I.R.P.)
		5875	4.219	4.437		1.74	9.08	

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

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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

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)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11be-EHT80	1	5210	1.881	2.120	N/A	5.01	11 dBm/MHz
	2A	5290	1.114	0.790		3.97	
	2C	5530	1.454	1.634		4.56	
		5610	3.161	3.351		6.27	
		5690	2.966	2.870		5.93	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11be-EHT80	3 Note2	5775	1.598	1.575	N/A	4.60	30dBm/500 kHz

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
802.11be-HHT80	4	5855	1.965	2.582	N/A	1.74	7.03	14dBm/MHz (E.I.R.P.)

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)2a), 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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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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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)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11be-EHT160	1/2A	5250	-4.051	-3.958	N/A	-0.99	11 dBm/MHz
	2C	5570	-3.072	-2.781		0.09	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. 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%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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
802.11be-HHT160	4	5815	-4.611	-4.600	N/A	1.74	0.14	14dBm/MHz (E.I.R.P.)

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

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

$$\text{Directional gain} = 10 \log[(10^{1.92/10} + 10^{1.55/10})/2] = 1.74\text{dBi}$$

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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New Taipei City244, Taiwan

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

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11be-EHT20	1	5180	26/0	6.739	7.633	N/A	10.22	11 dBm/MHz
			52/37	6.928	7.856	N/A	10.43	
			106/53	6.989	7.975	N/A	10.52	
	2A	5320	26/8	6.764	7.113	N/A	9.95	
			52/40	6.859	7.317	N/A	10.10	
			106/54	6.923	7.570	N/A	10.27	
	2C	5500	26/0	7.721	7.296	N/A	10.52	
			52/37	7.849	7.668	N/A	10.77	
			106/53	7.598	7.572	N/A	10.60	
		5700	26/8	6.773	6.896	N/A	9.85	
			52/40	7.354	7.773	N/A	10.58	
			106/54	7.071	7.336	N/A	10.22	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11be-EHT20	3 ^{Note2}	5745	26/0	16.711	16.719	N/A	19.73	30dBm/ 500 kHz
			52/37	14.036	14.158	N/A	17.11	
			106/53	11.056	10.969	N/A	14.02	
		5825	26/8	17.303	17.166	N/A	20.25	
			52/40	14.080	14.149	N/A	17.12	
			106/54	10.826	11.117	N/A	13.98	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

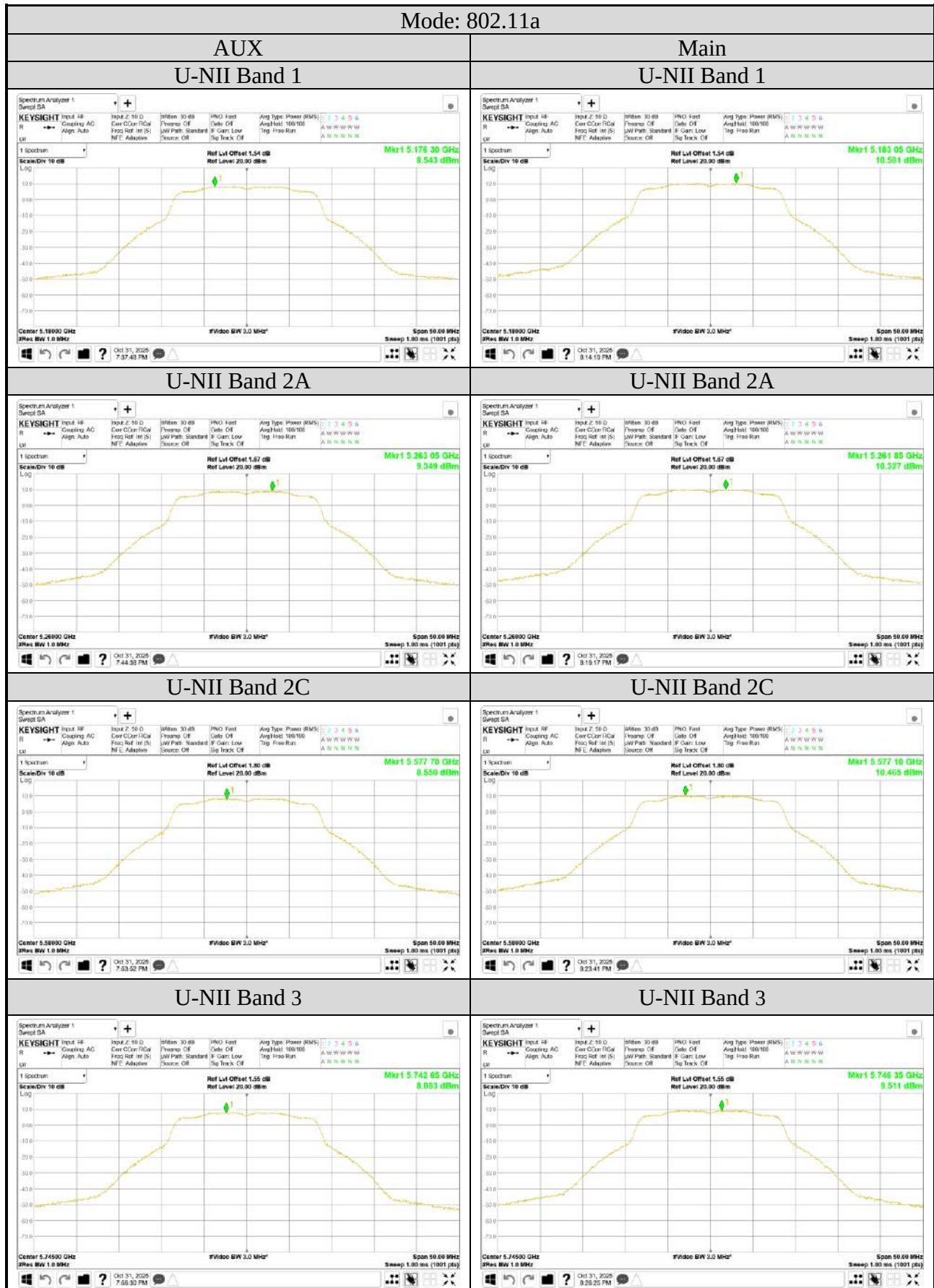
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4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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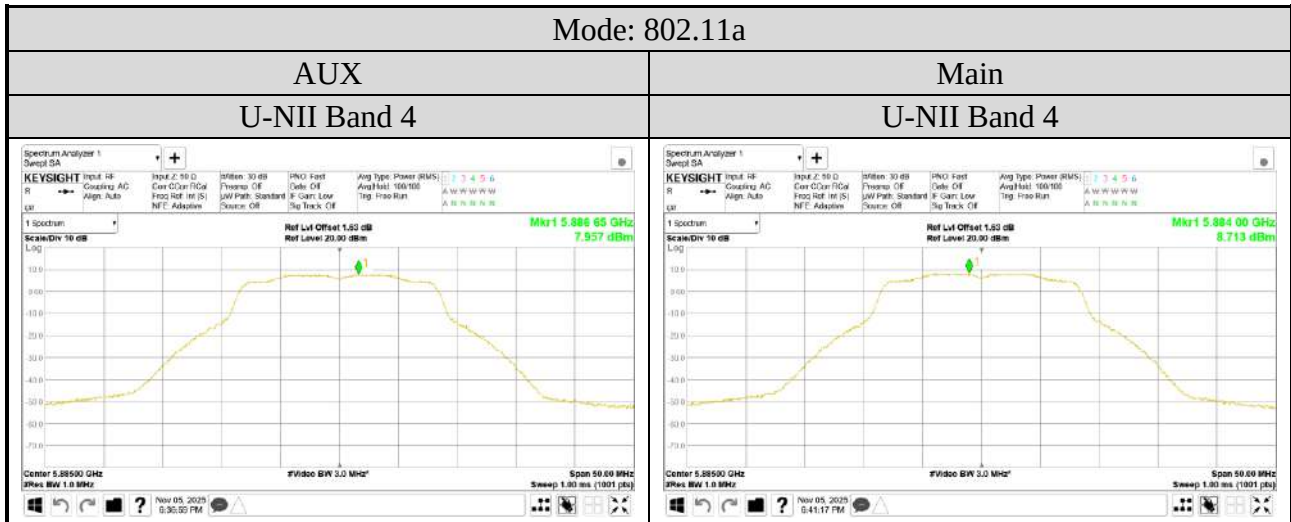
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A.4.2 Measurement Plots



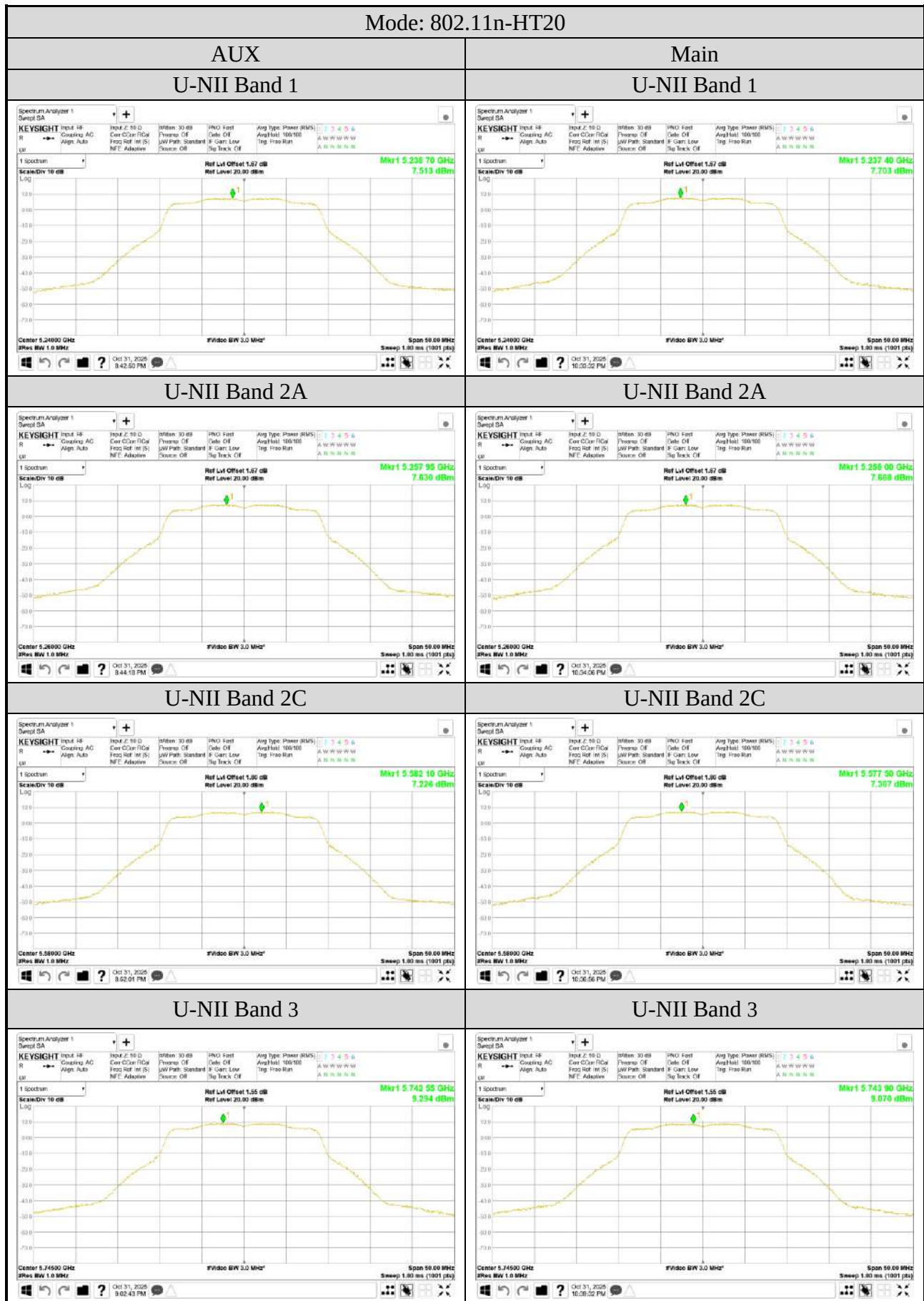
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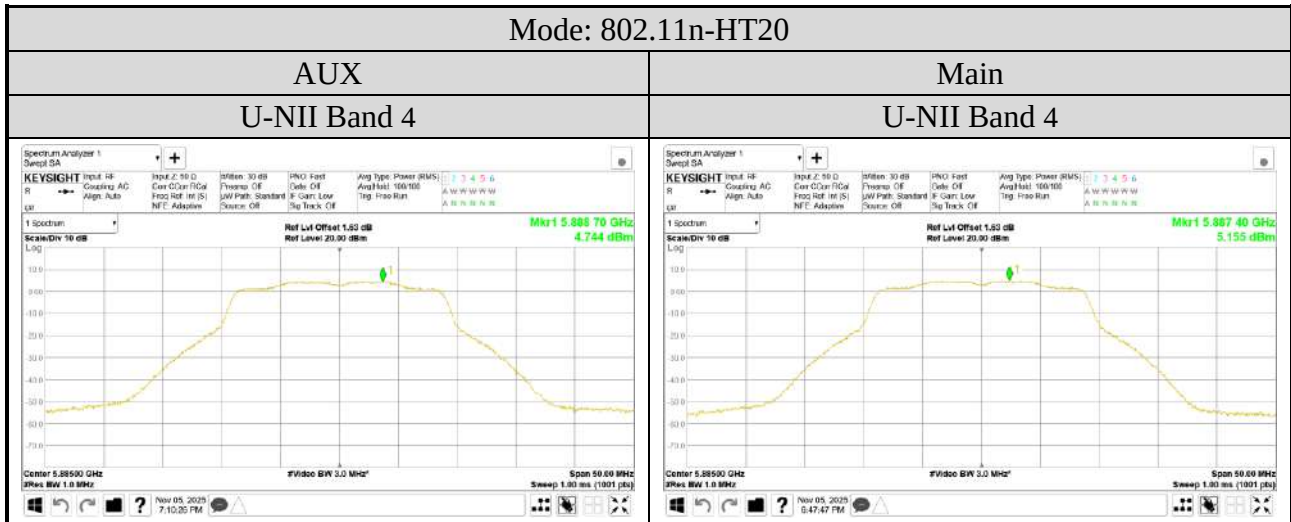
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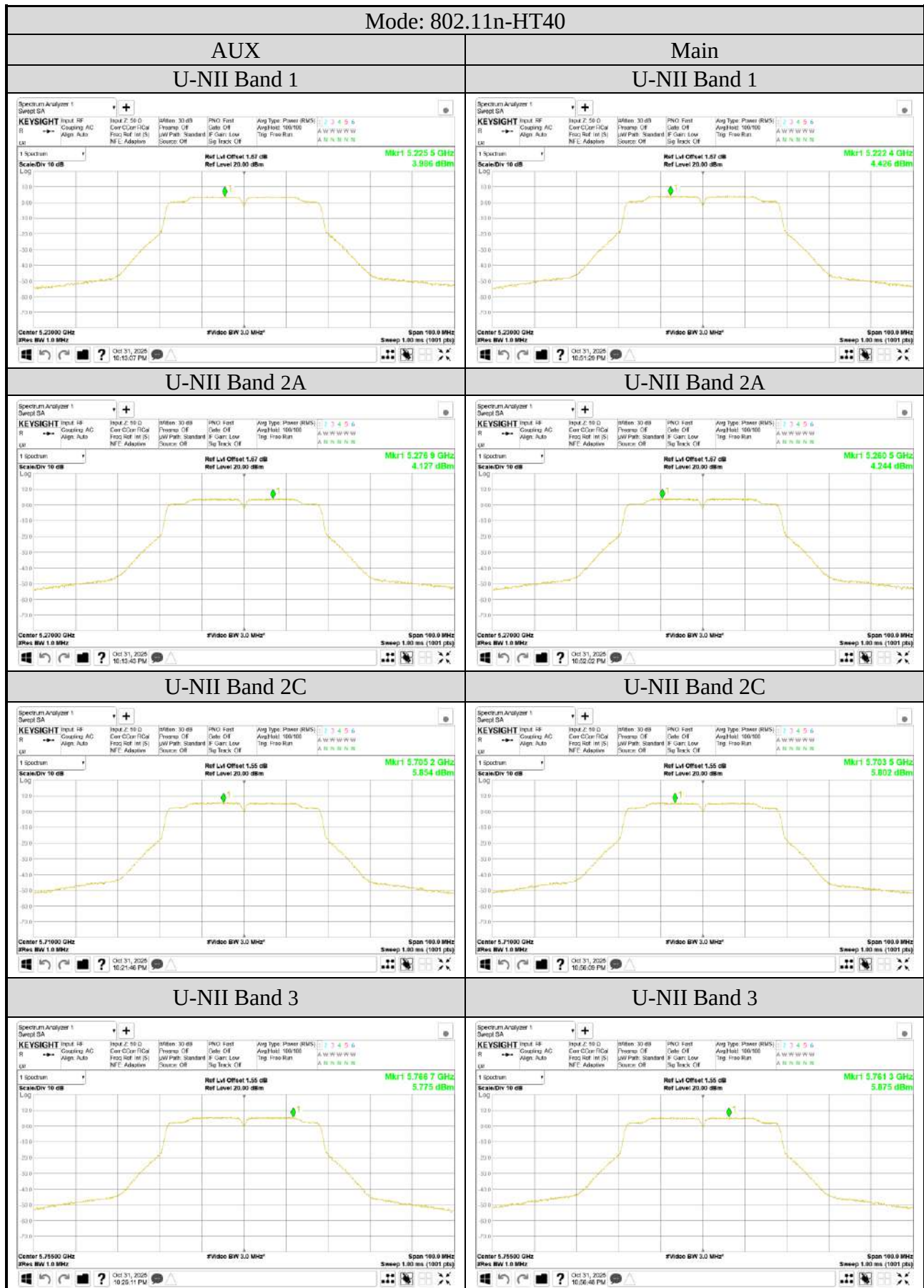
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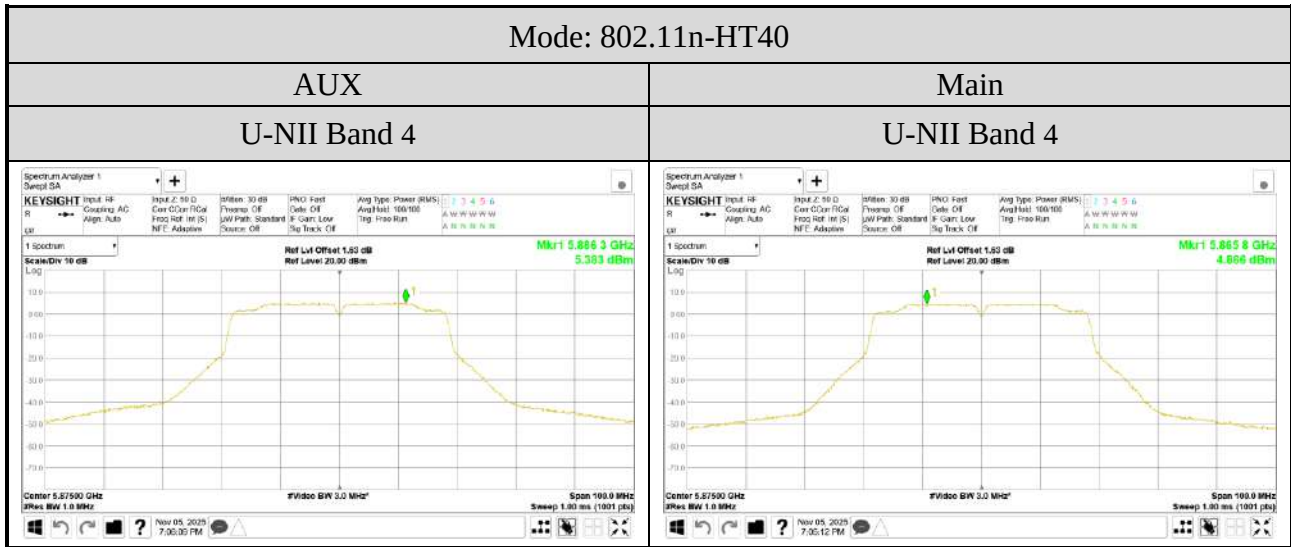
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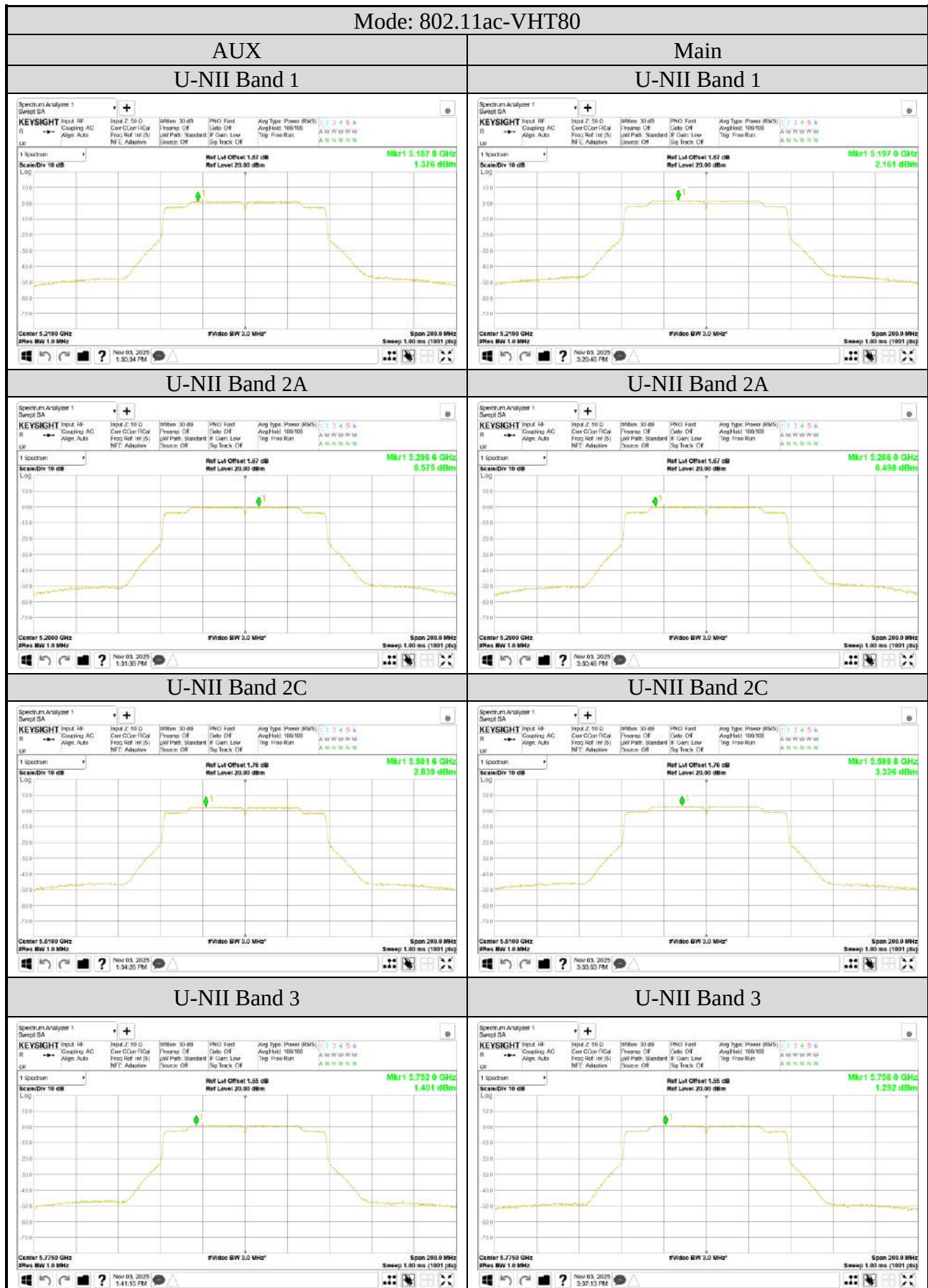
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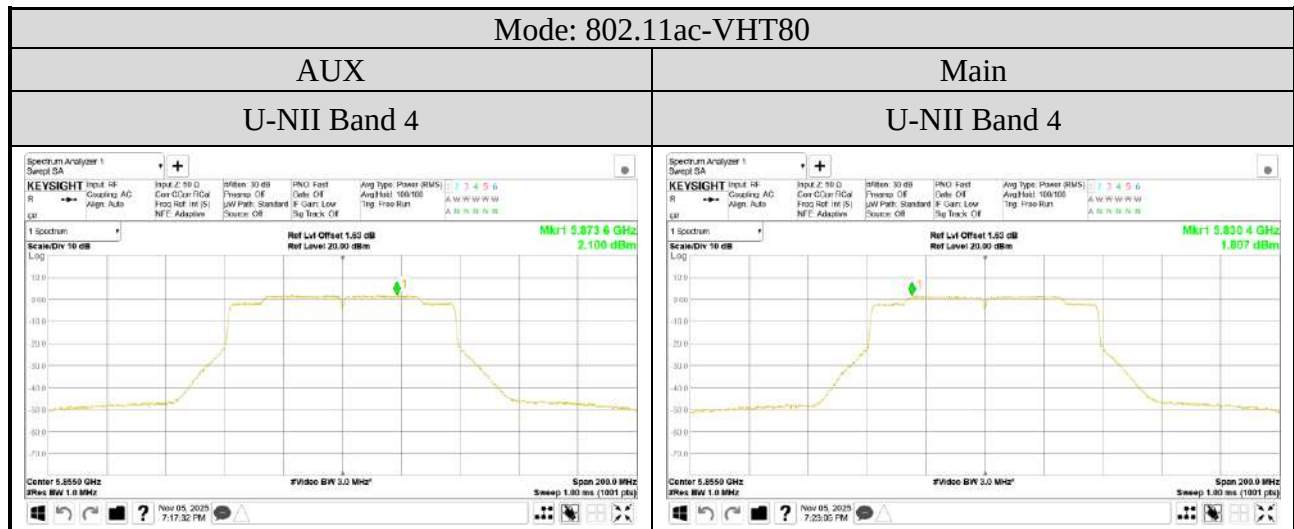
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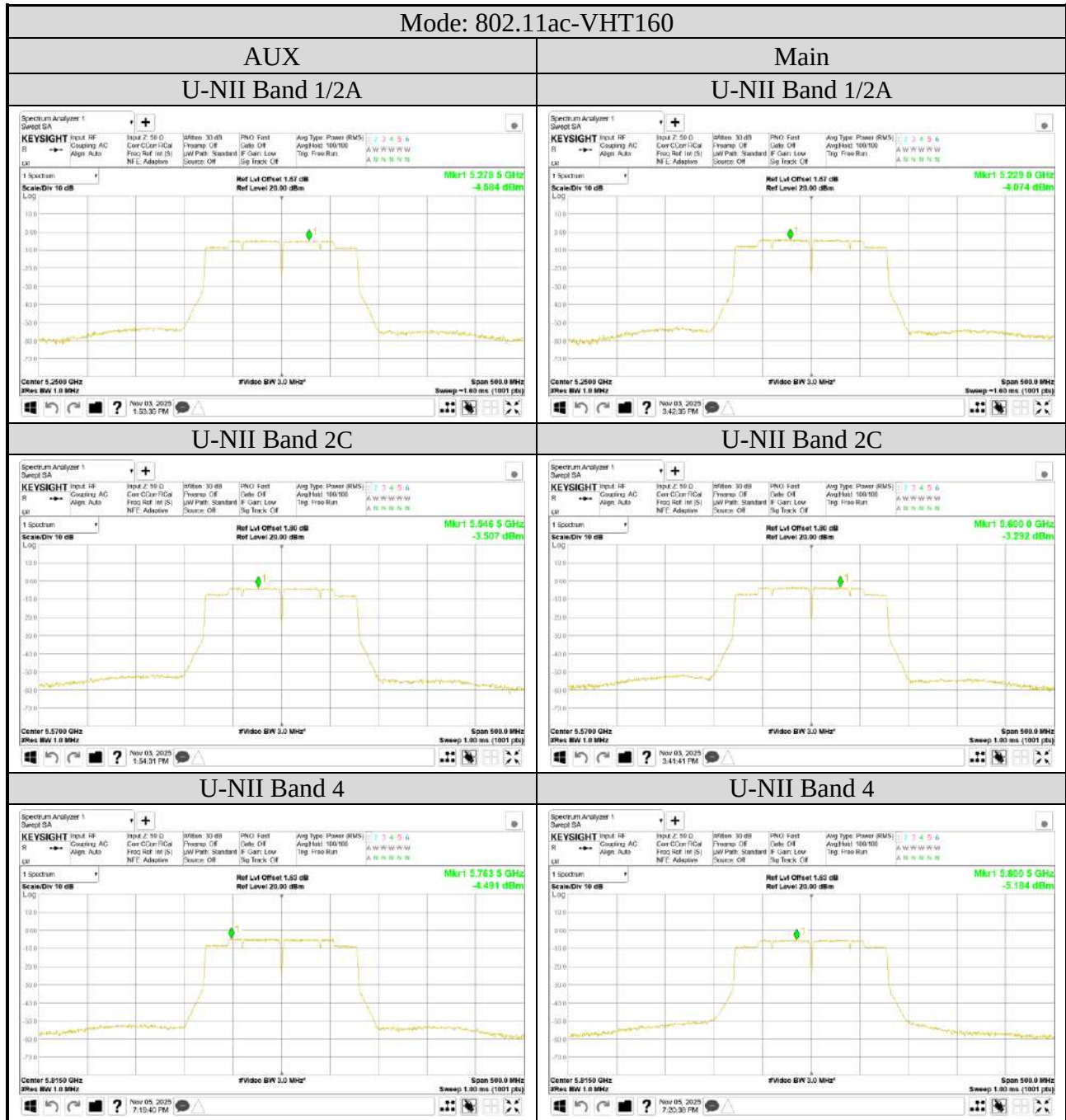
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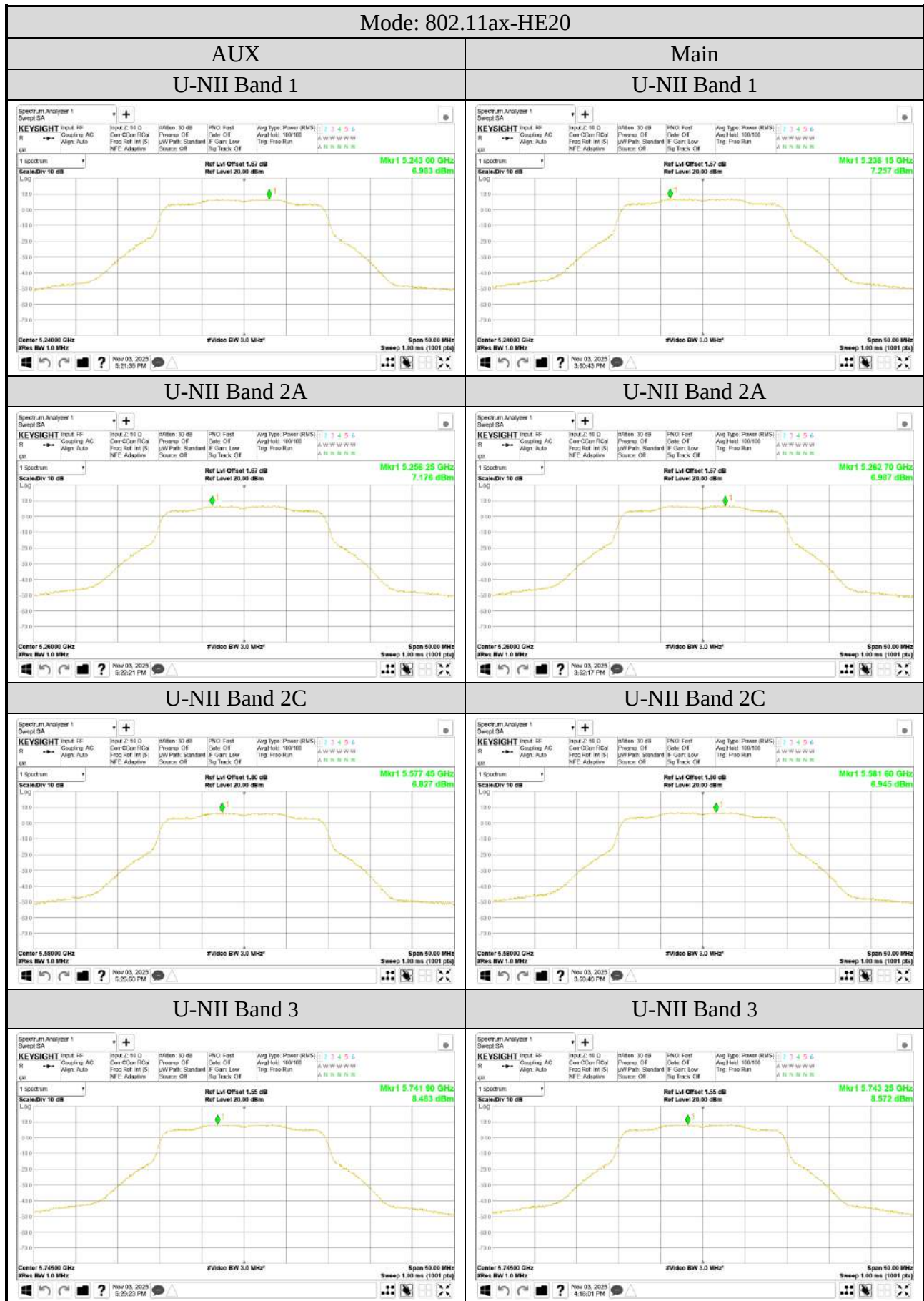
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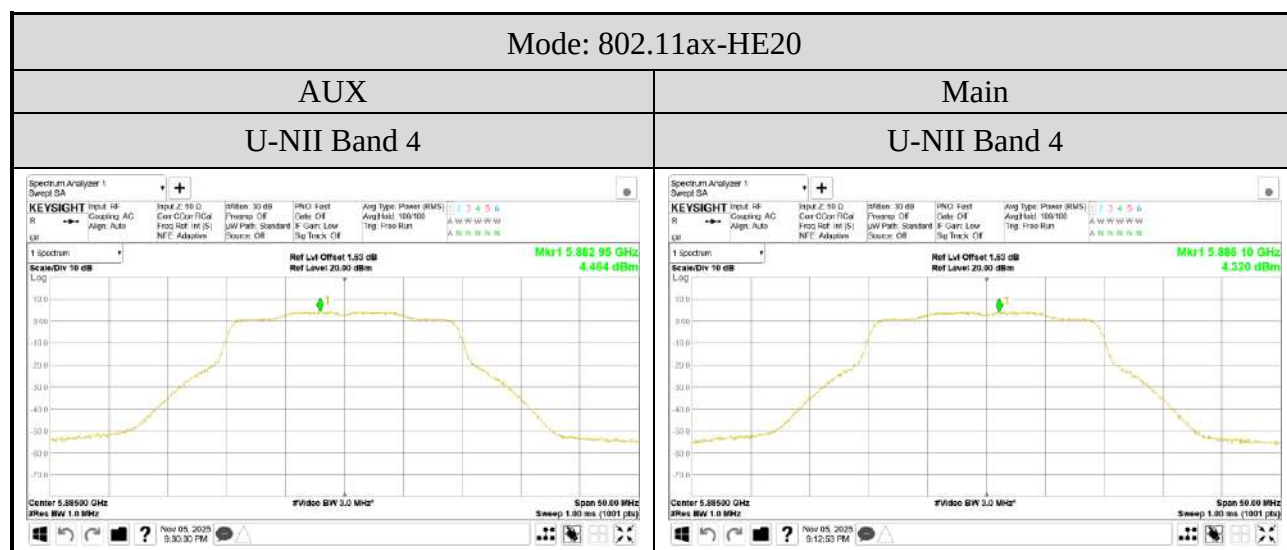
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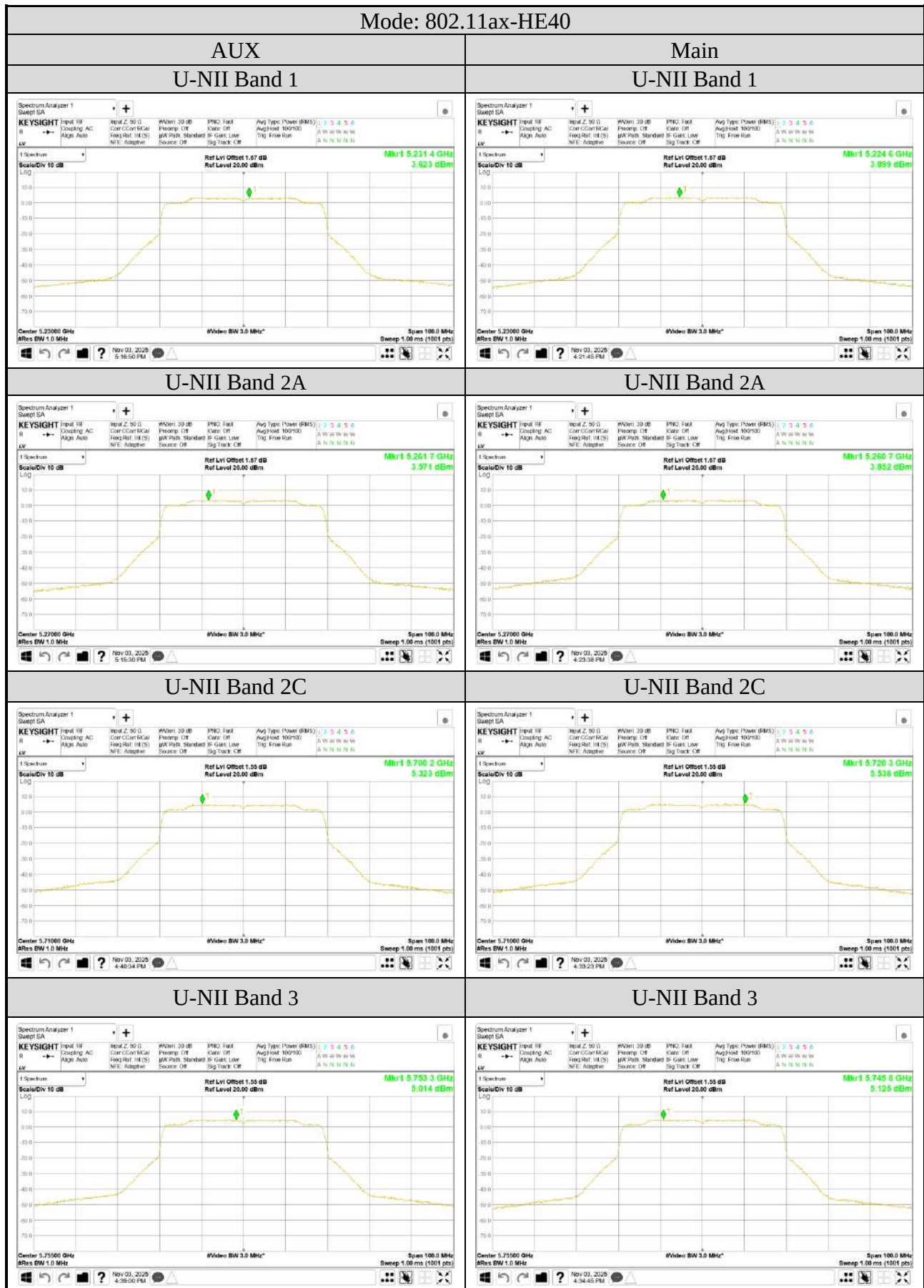
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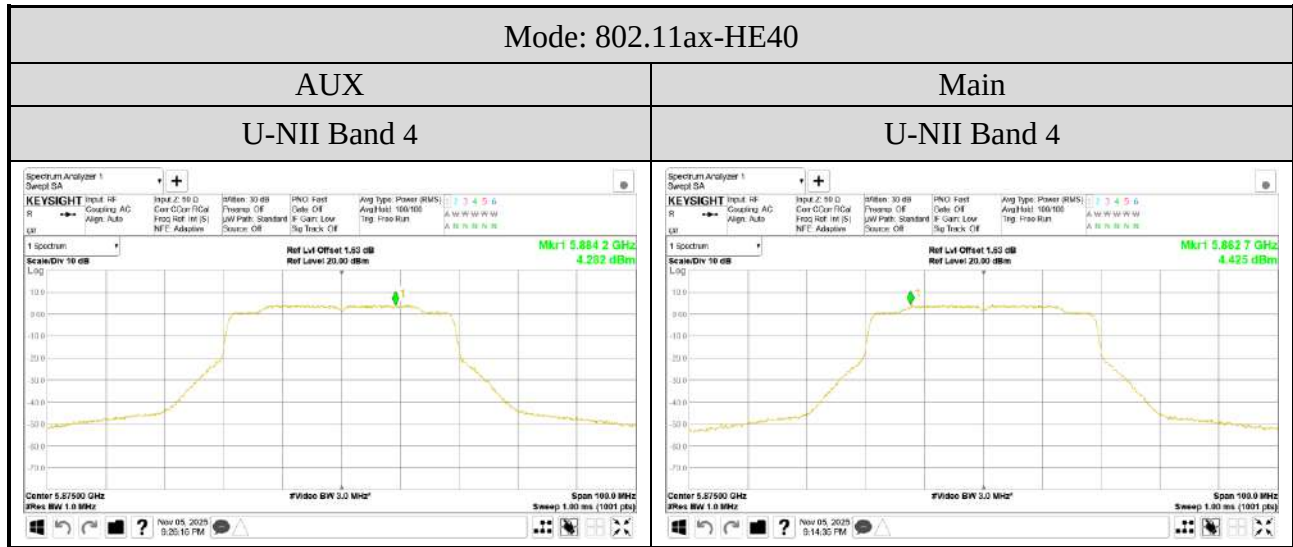
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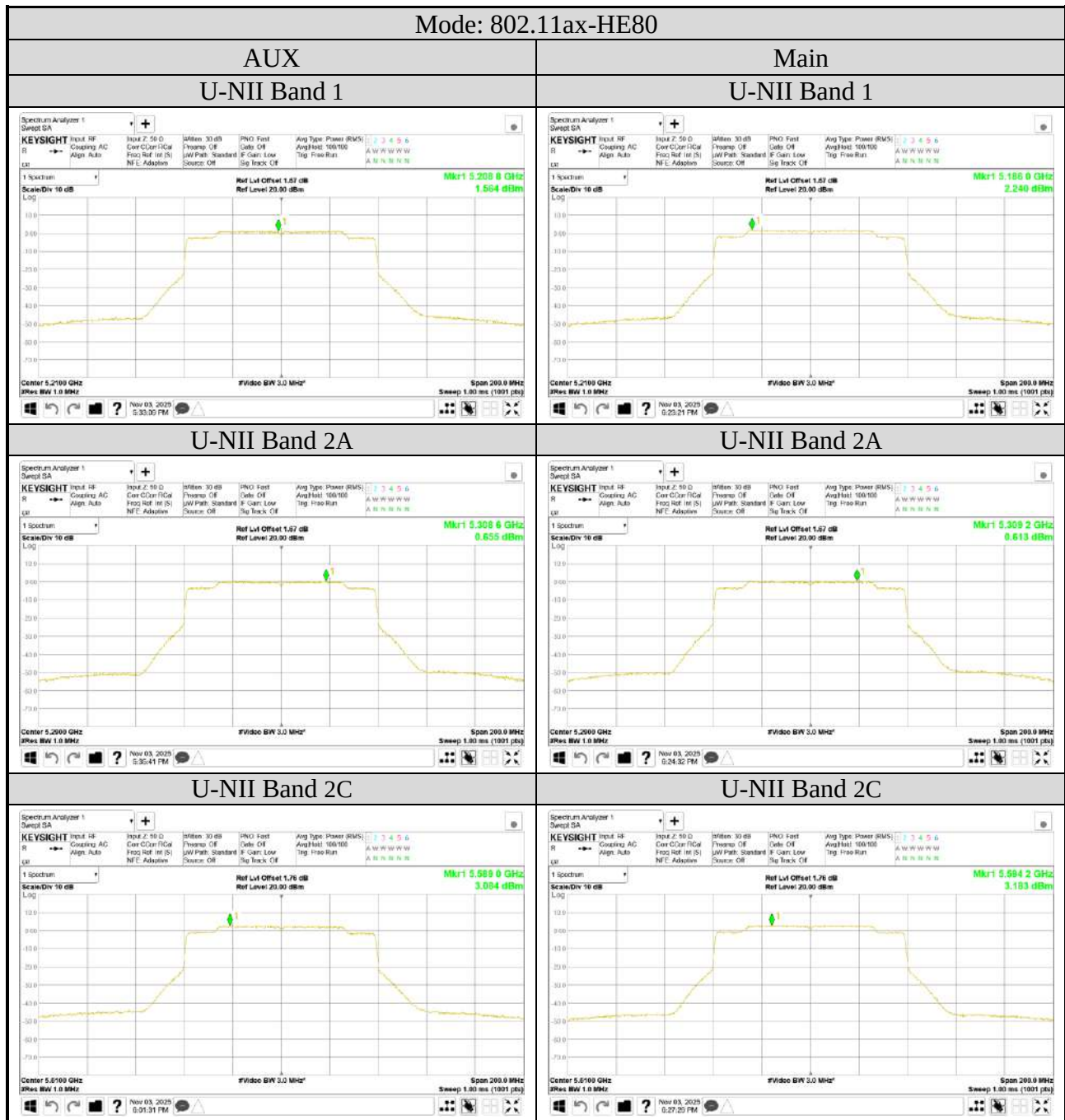
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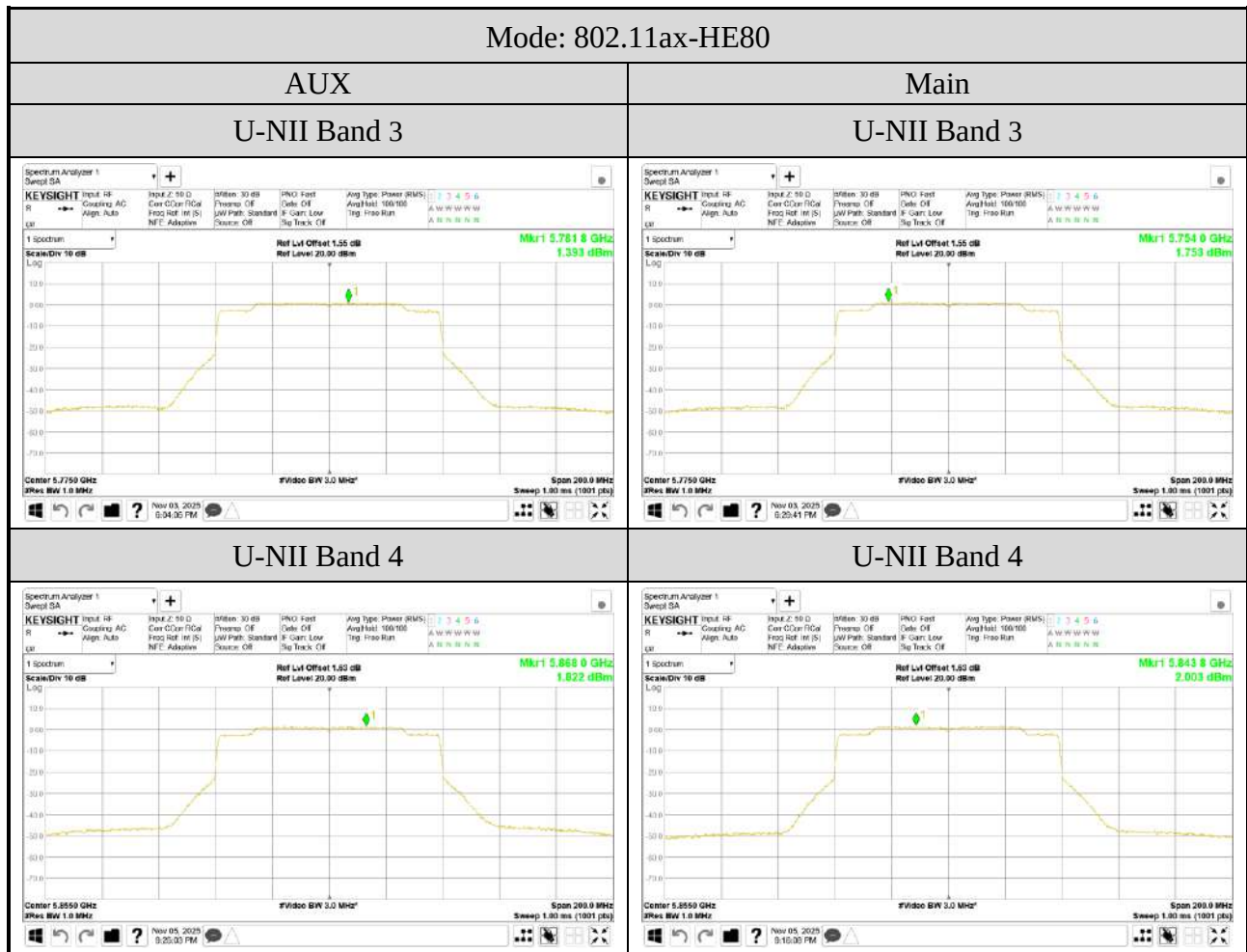
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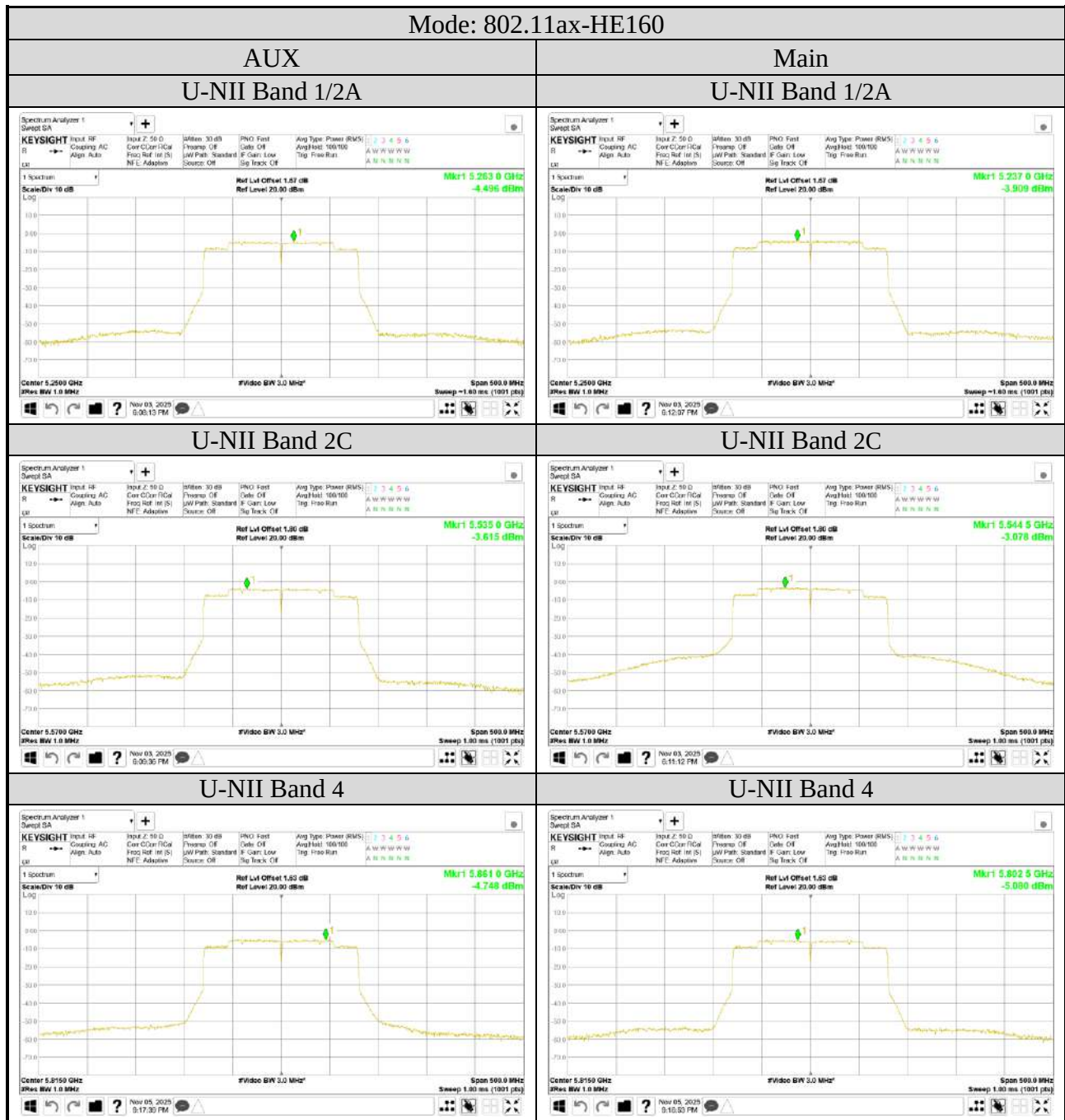
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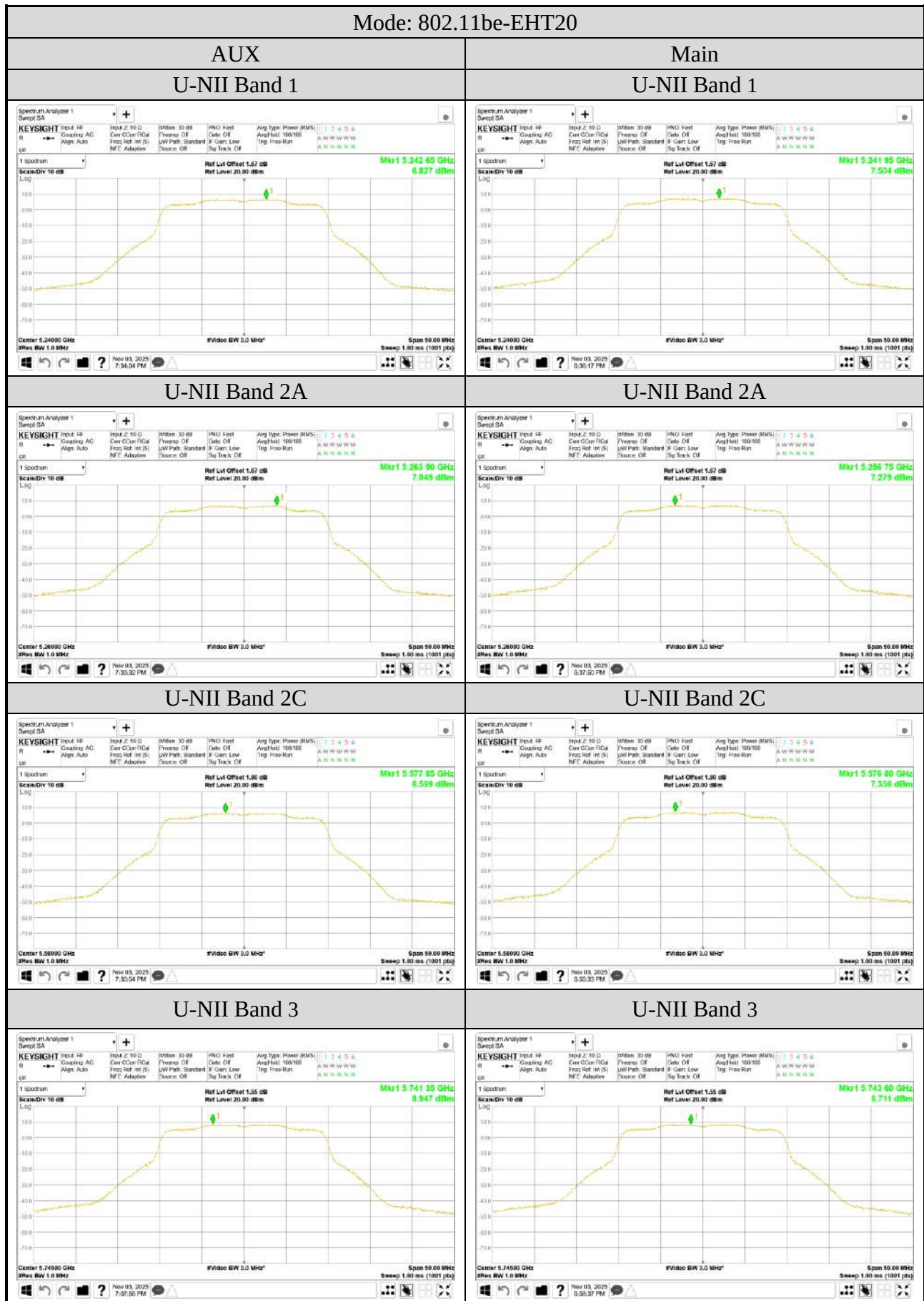
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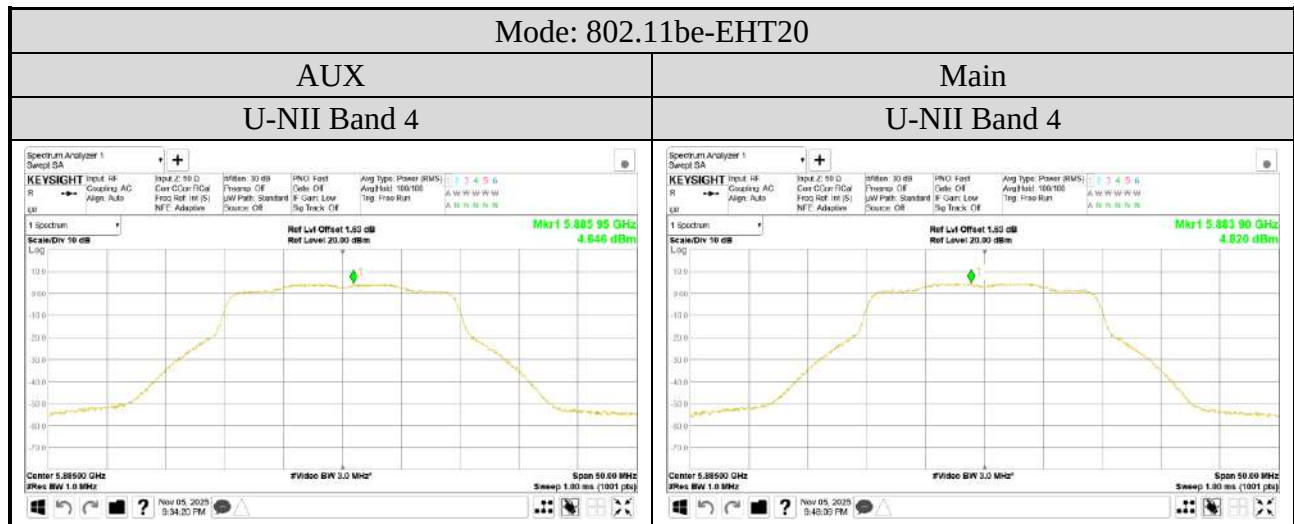
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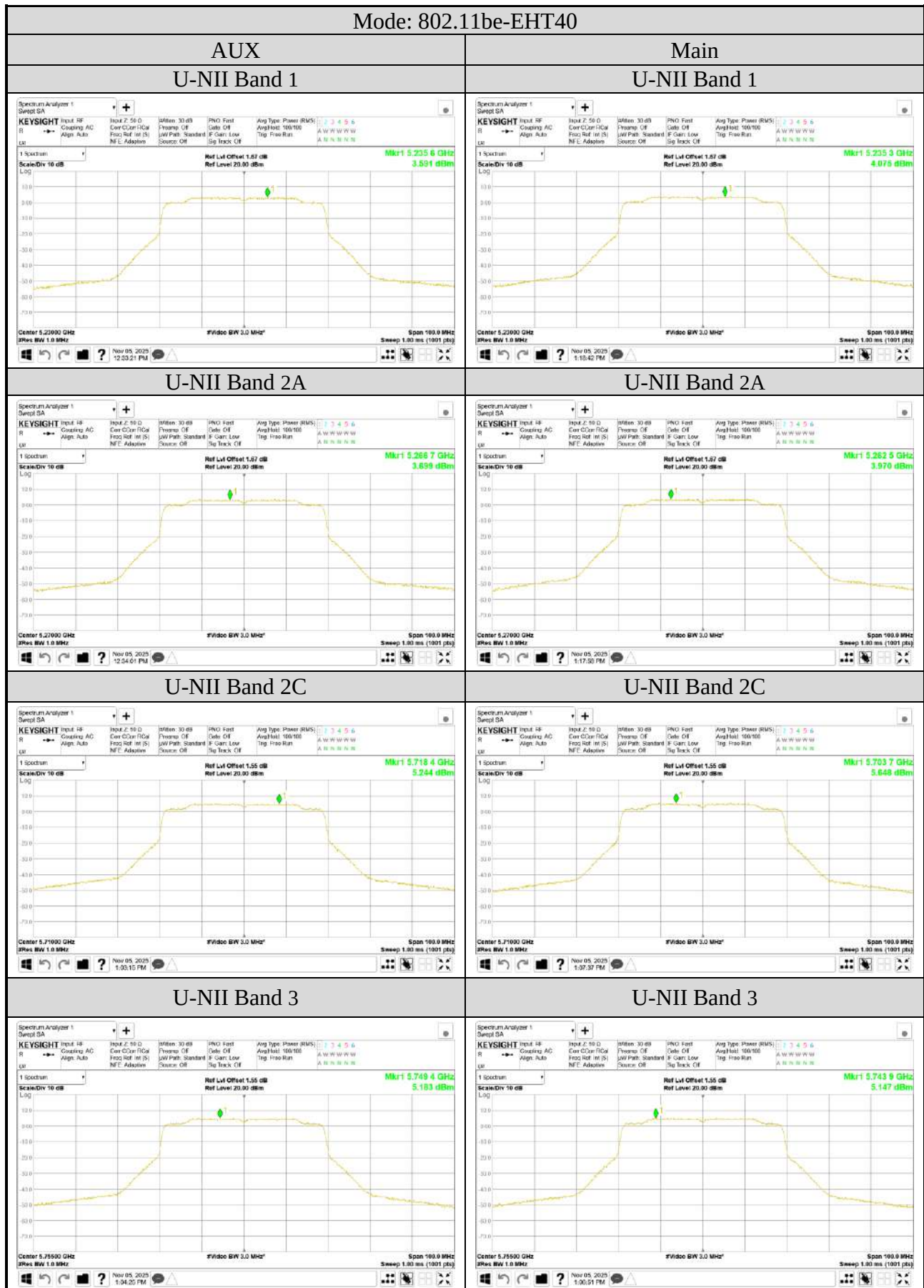
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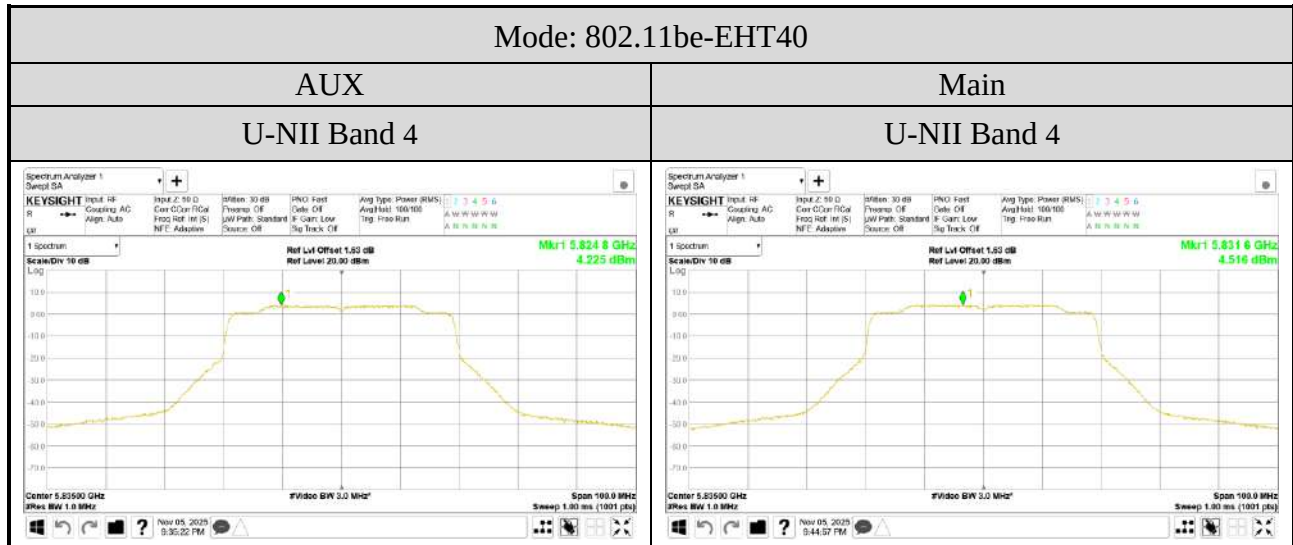
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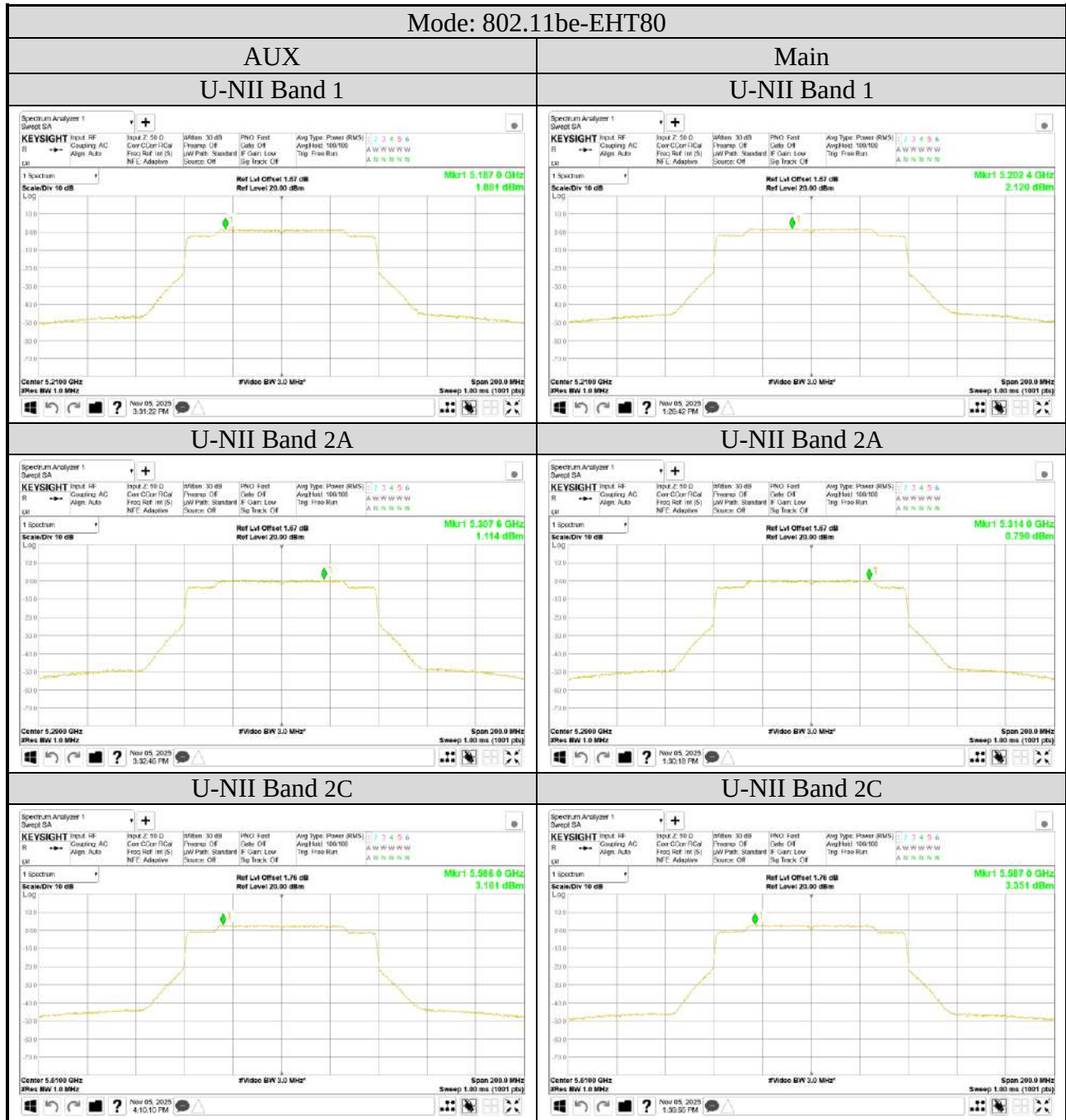
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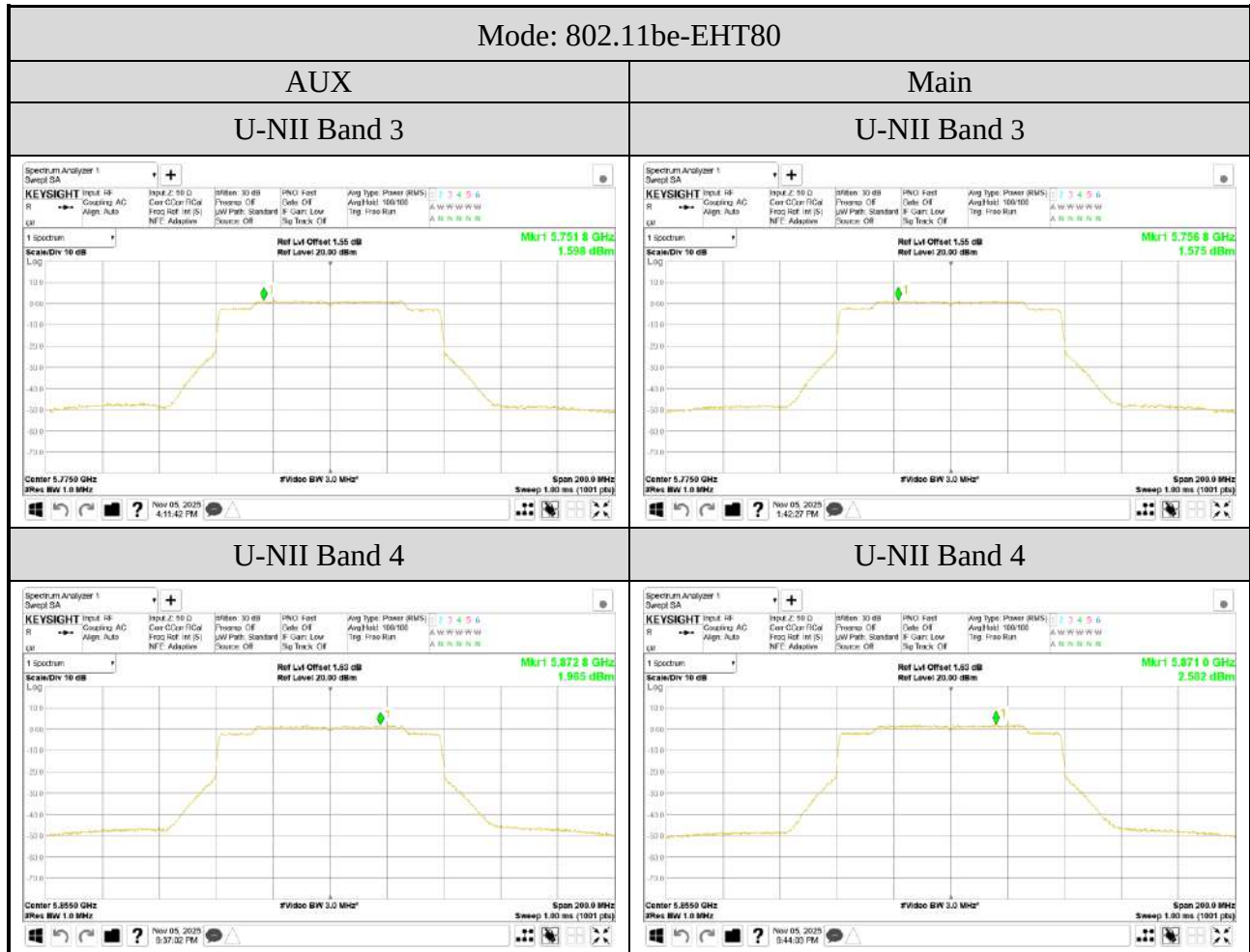
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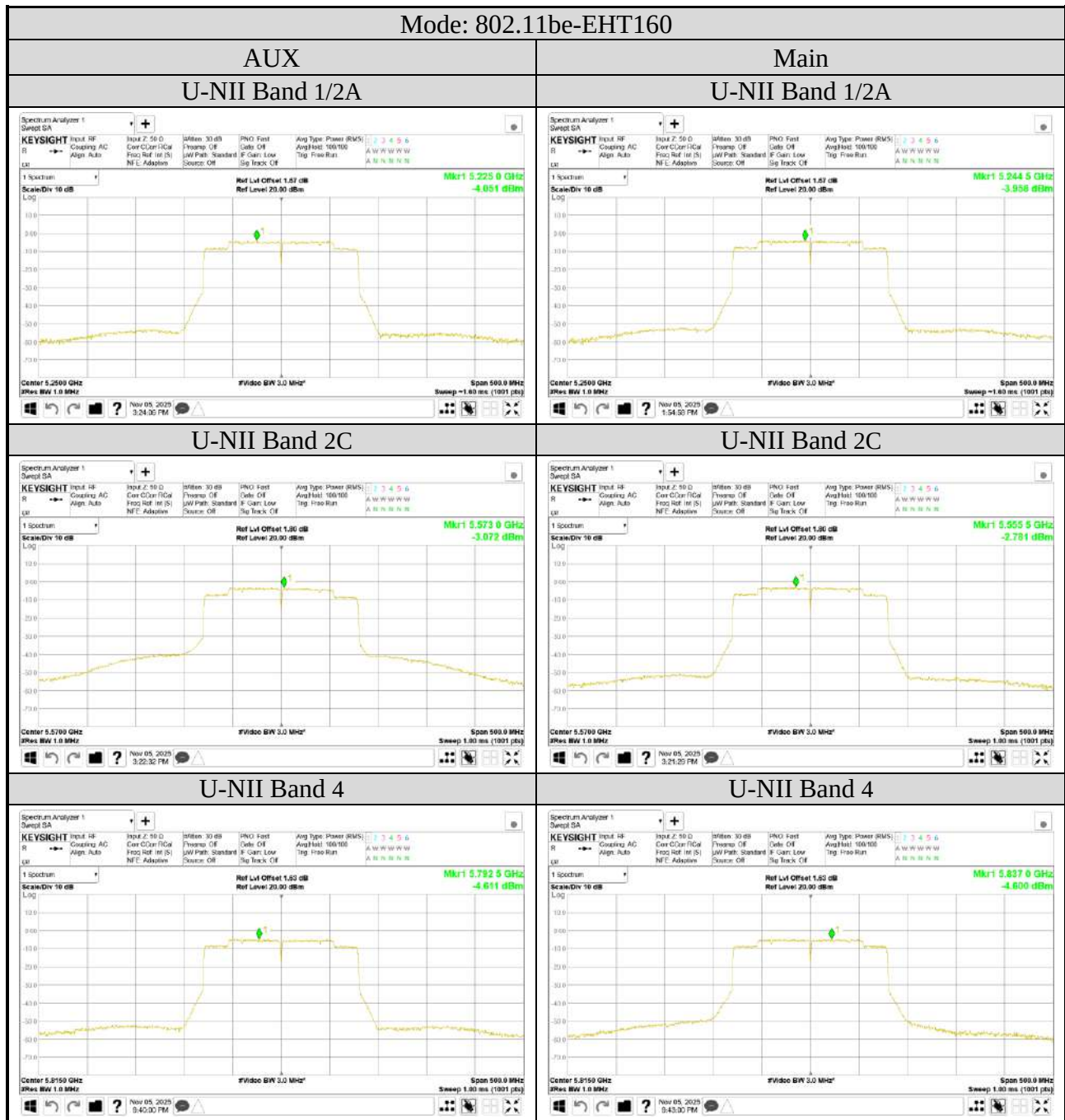
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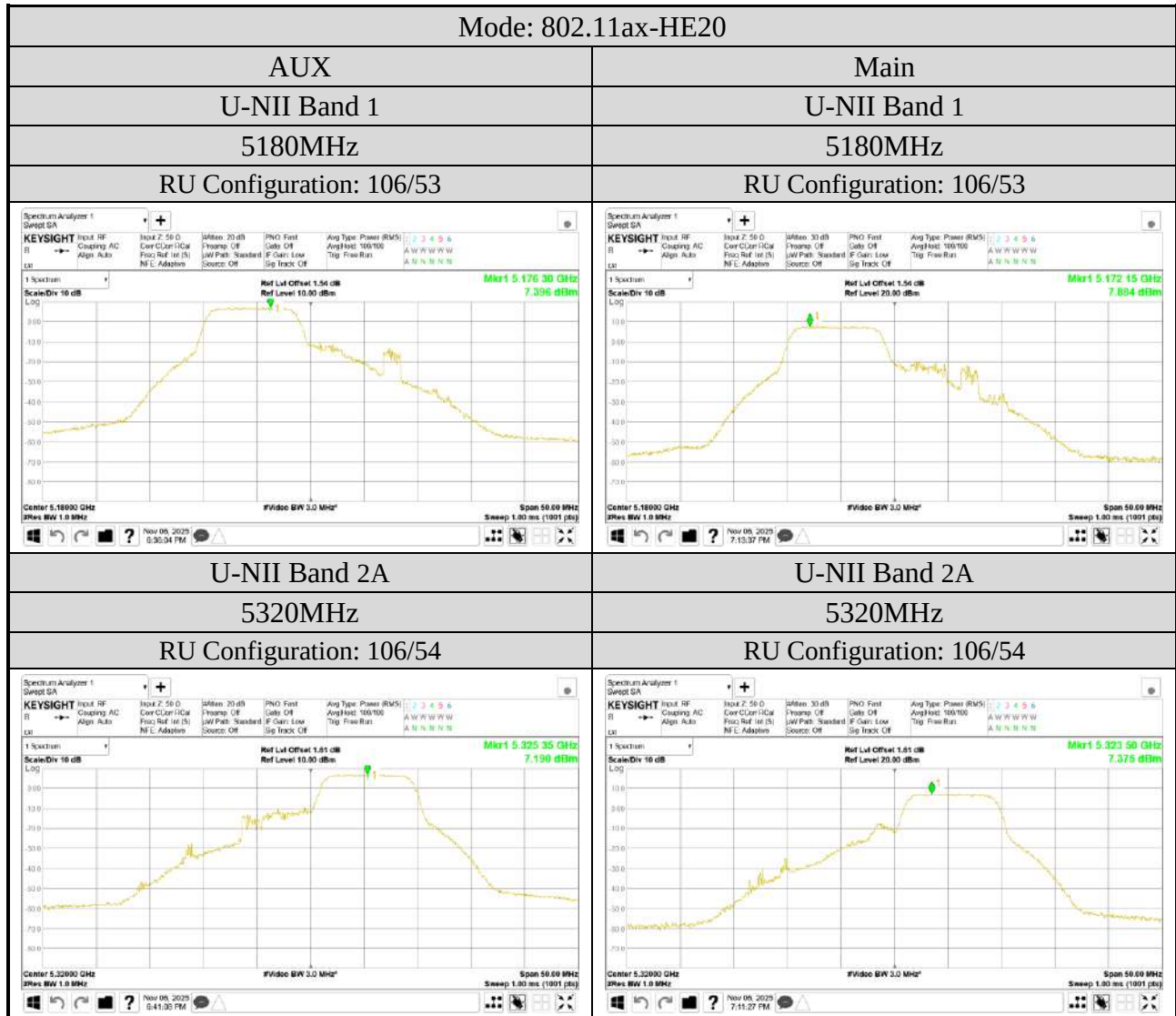
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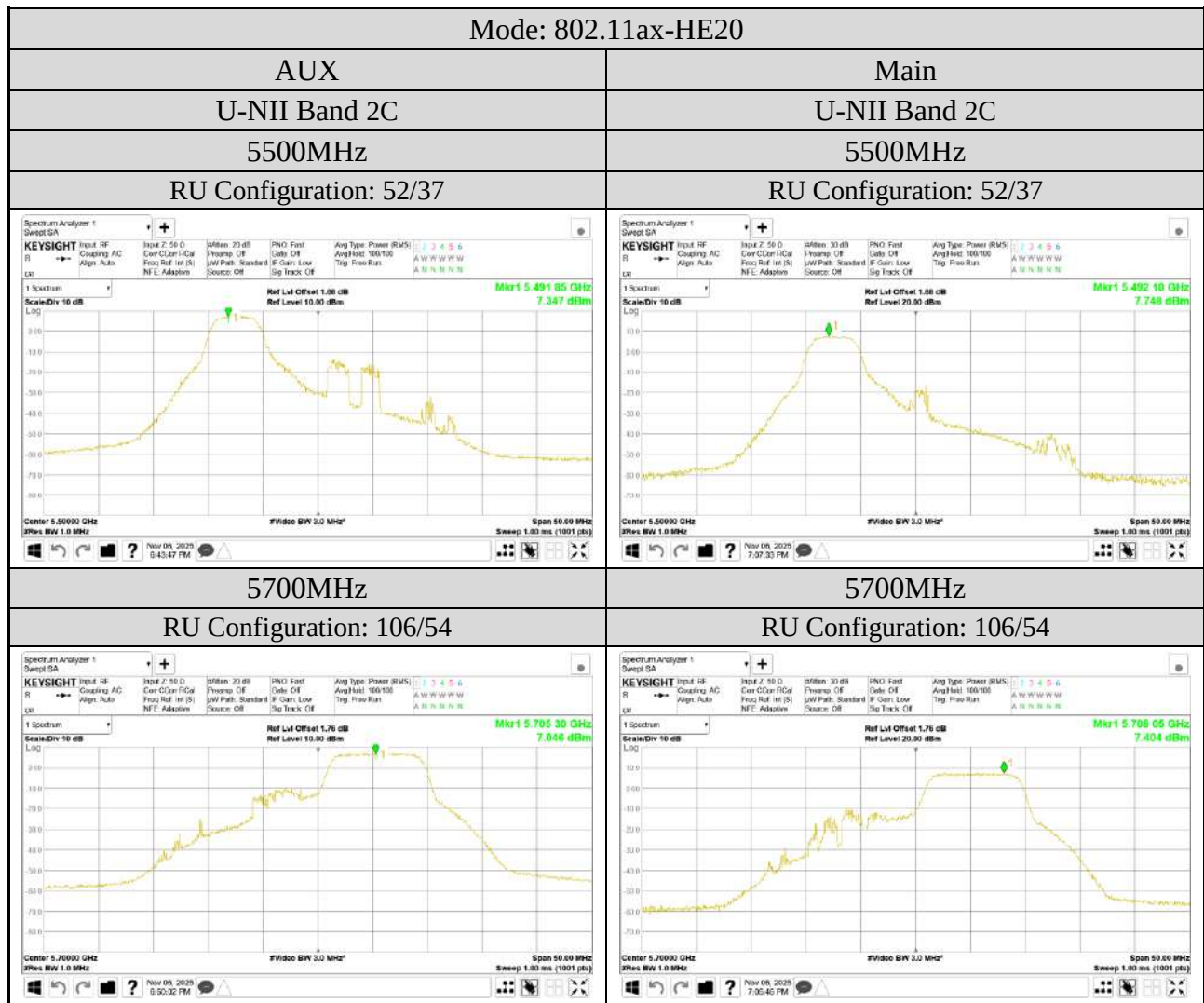
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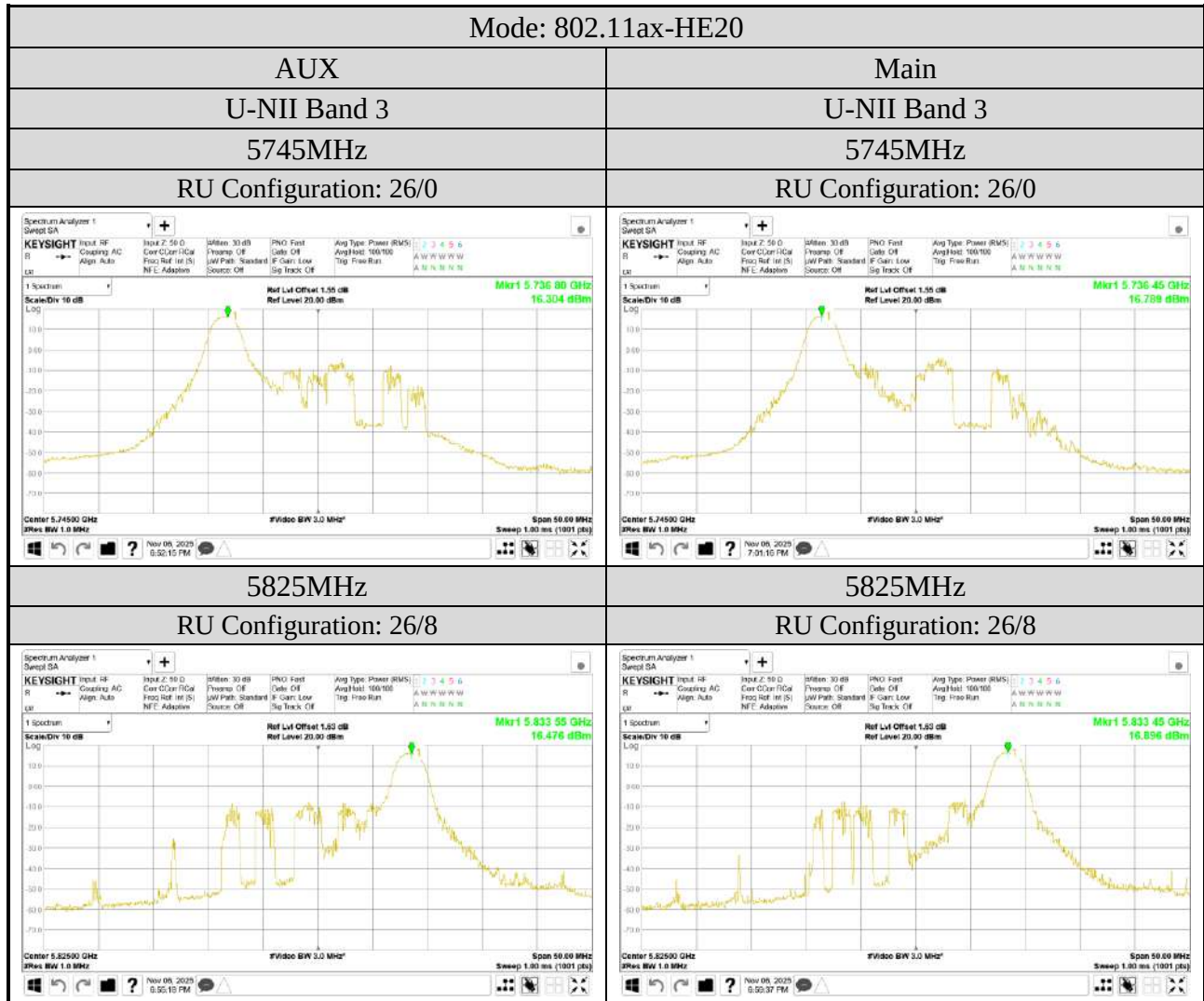
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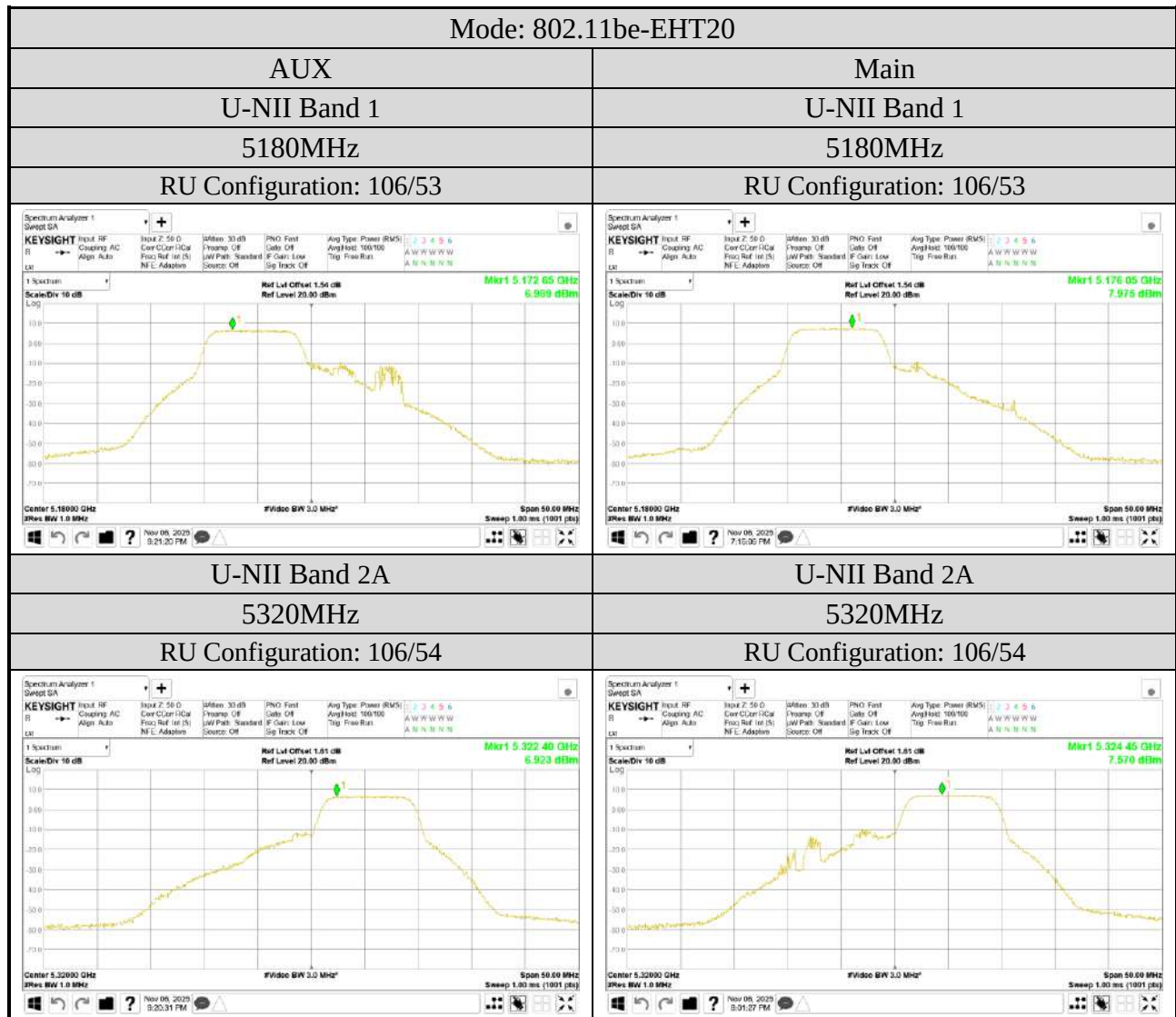
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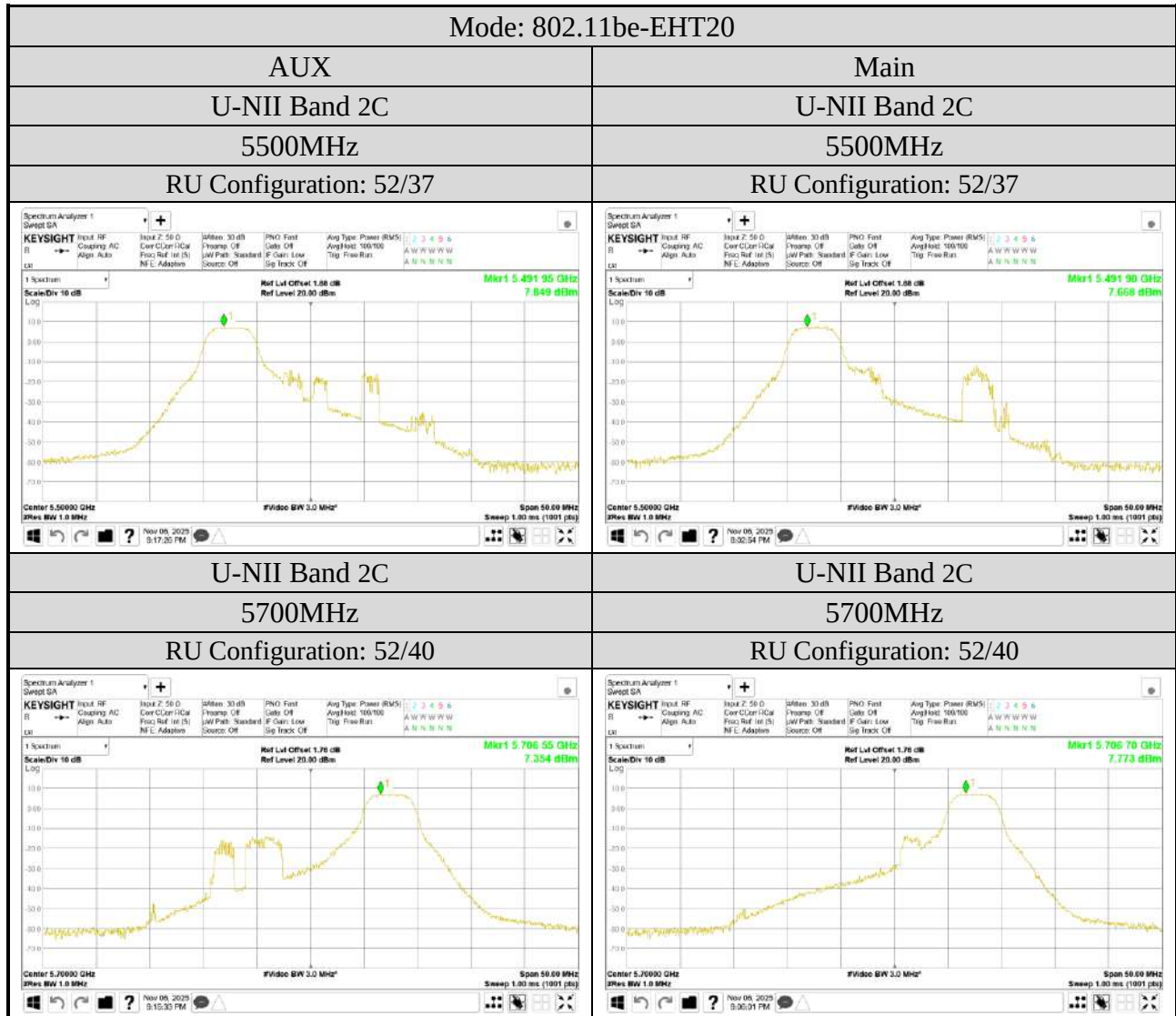
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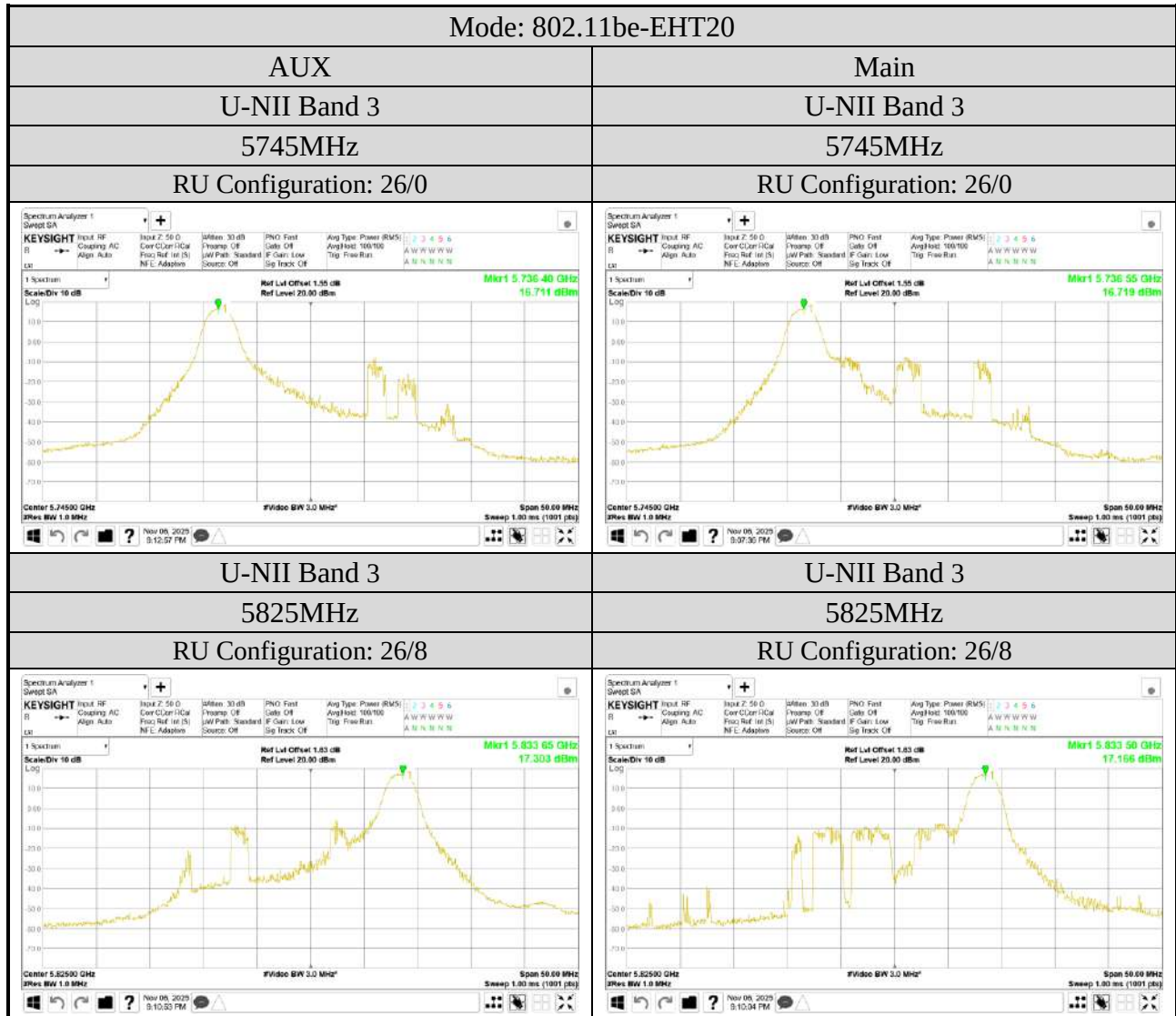
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A.5 FREQUENCY STABILITY

Test Date	2025/10/31	Temp./Hum.	23°C/62%
Cable Loss	---	Tested By	Chuntse Wu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.5.1 Frequency stability Result

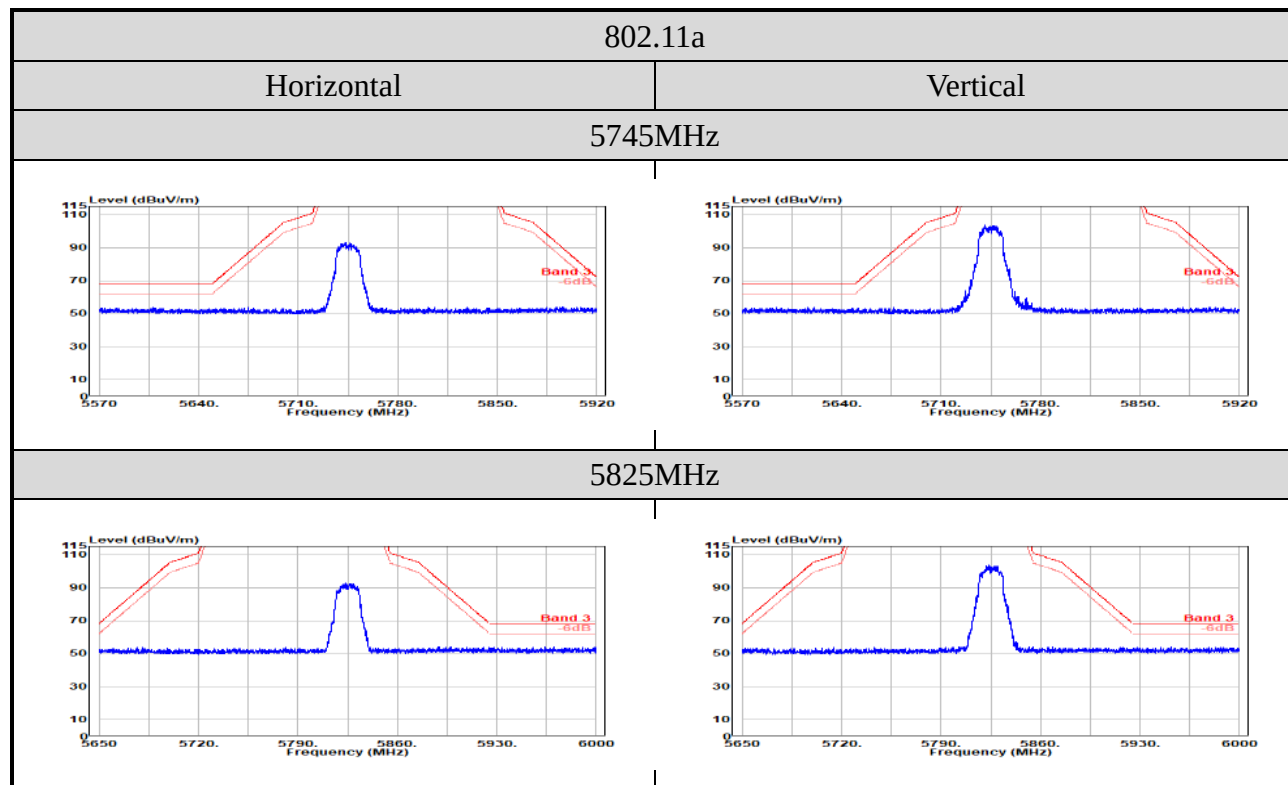
Temperature (°C)	Voltage (Vac)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
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-30	102		5180.02	3.861
	138		5179.986	-2.703
-20	102		5180.024	4.633
	138		5179.981	-3.668
-10	102		5179.97	-5.792
	138		5180.023	4.440
0	102		5179.984	-3.089
	138		5179.999	-0.193
10	102		5180.029	5.598
	138		5180.022	4.247
20	102		5180.029	5.598
	138		5180.005	0.965
30	102		5179.991	-1.737
	138		5180.021	4.054
40	102		5180.021	4.054
	138		5180.004	0.772
50	102		5180.024	4.633
	138		5180.01	1.931

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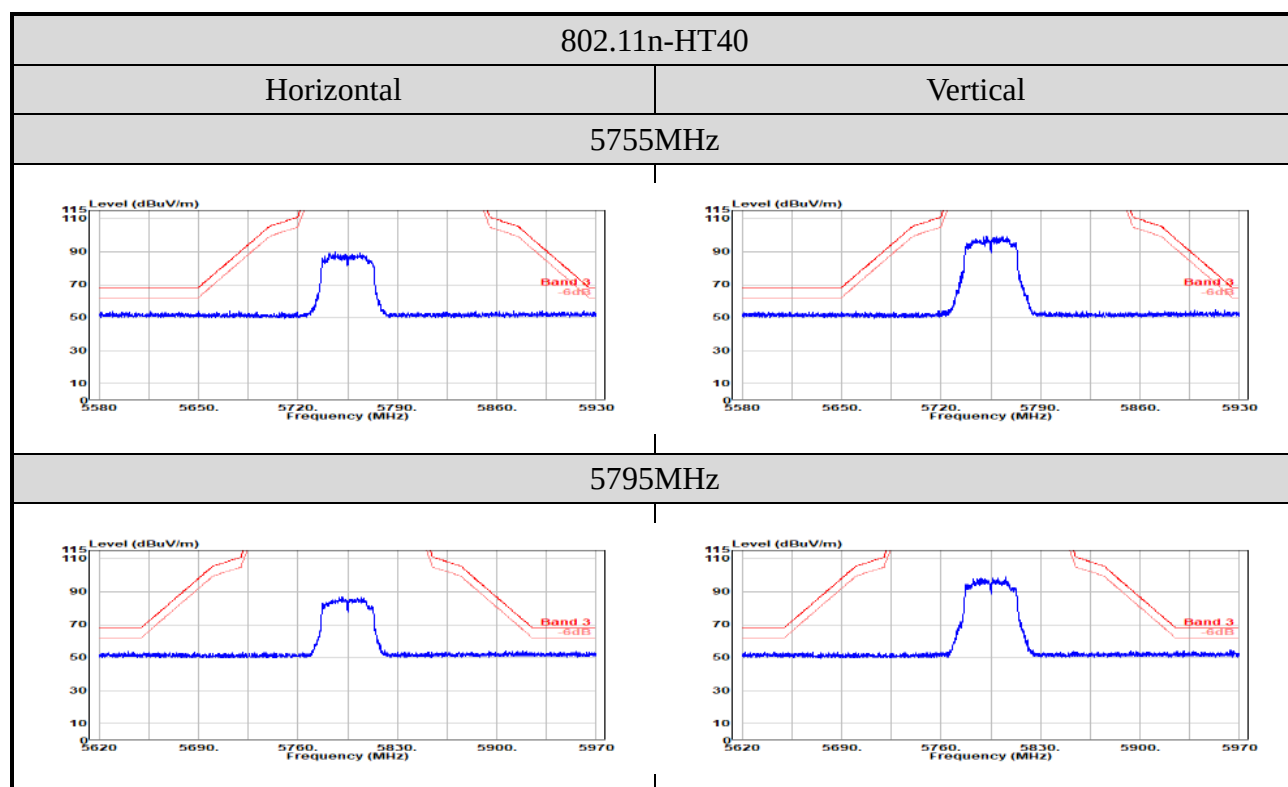
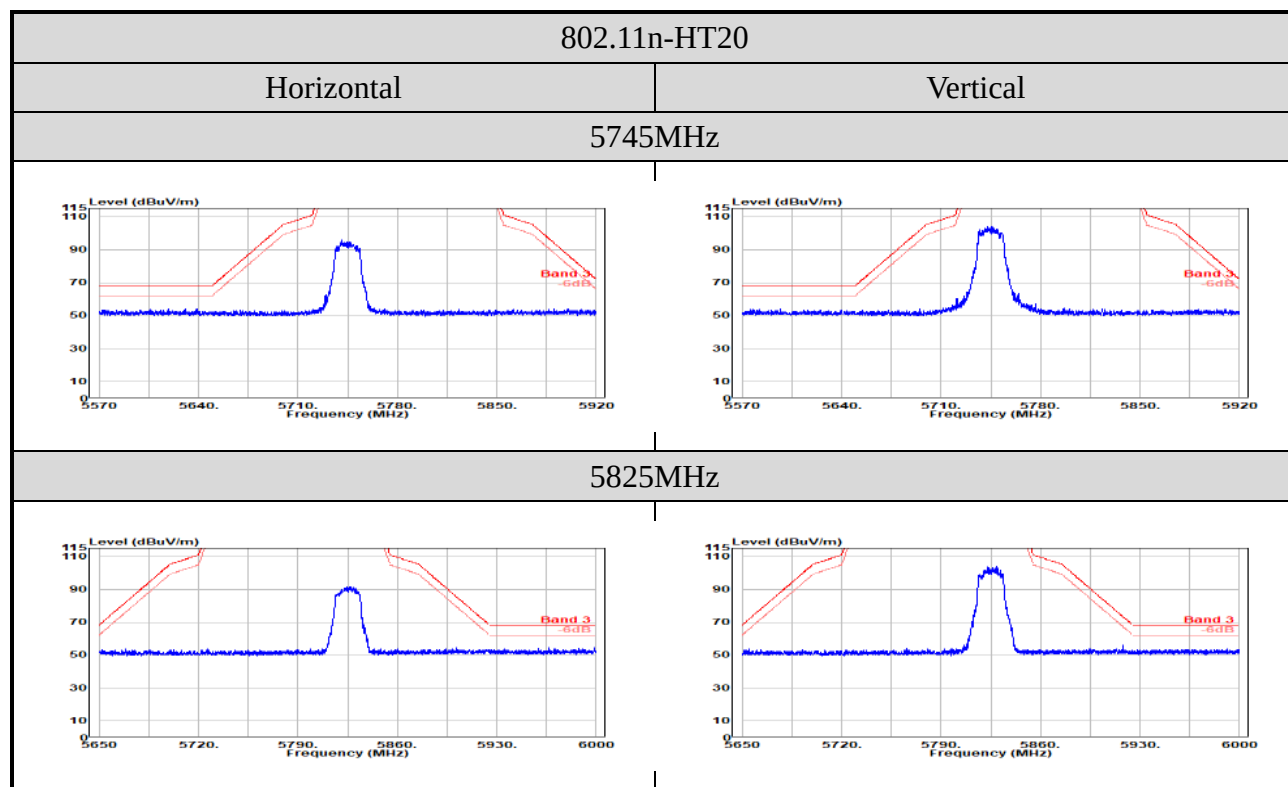
A.6 BAND EDGE

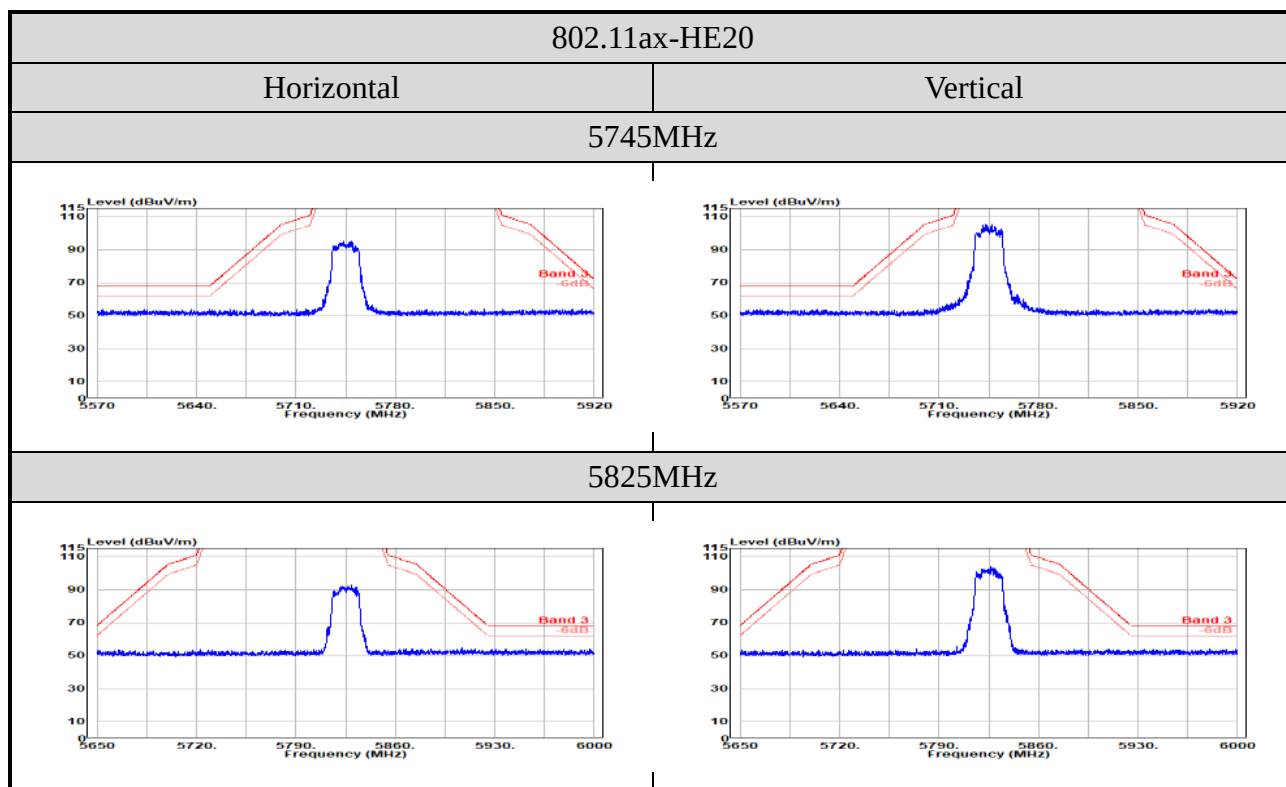
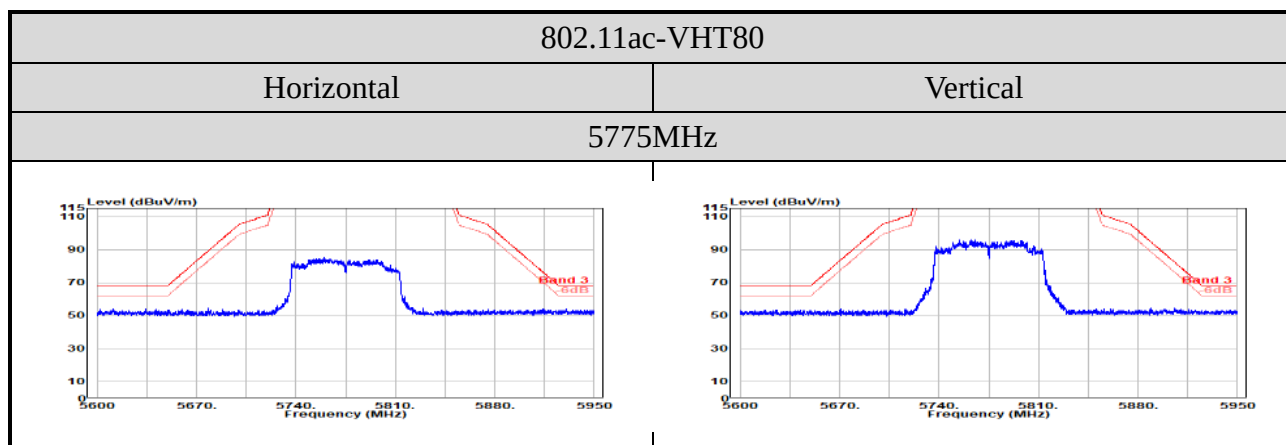
Test Date	2025/10/09 ~ 13	Temp./Hum.	24 ~ 25°C/46 ~ 57%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Harry Huang



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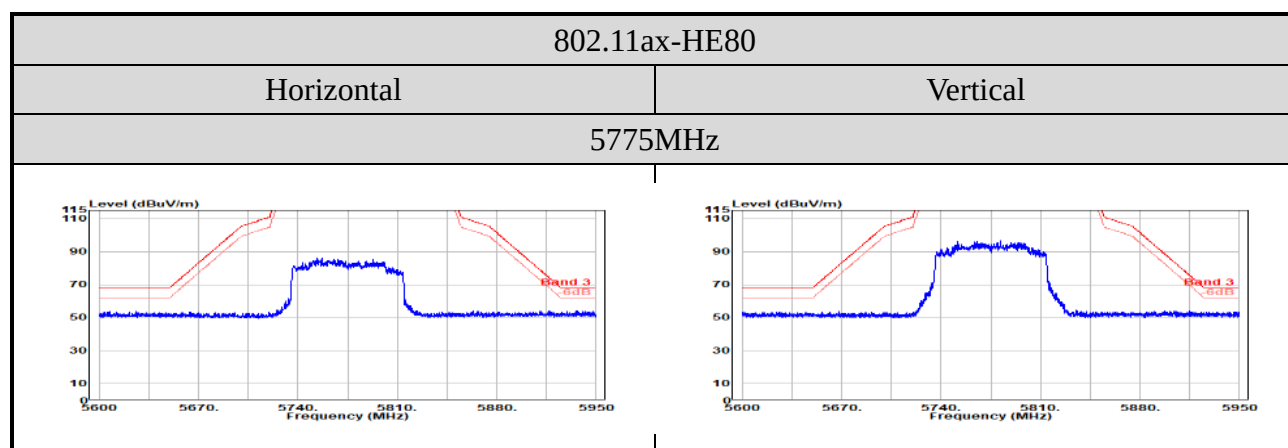
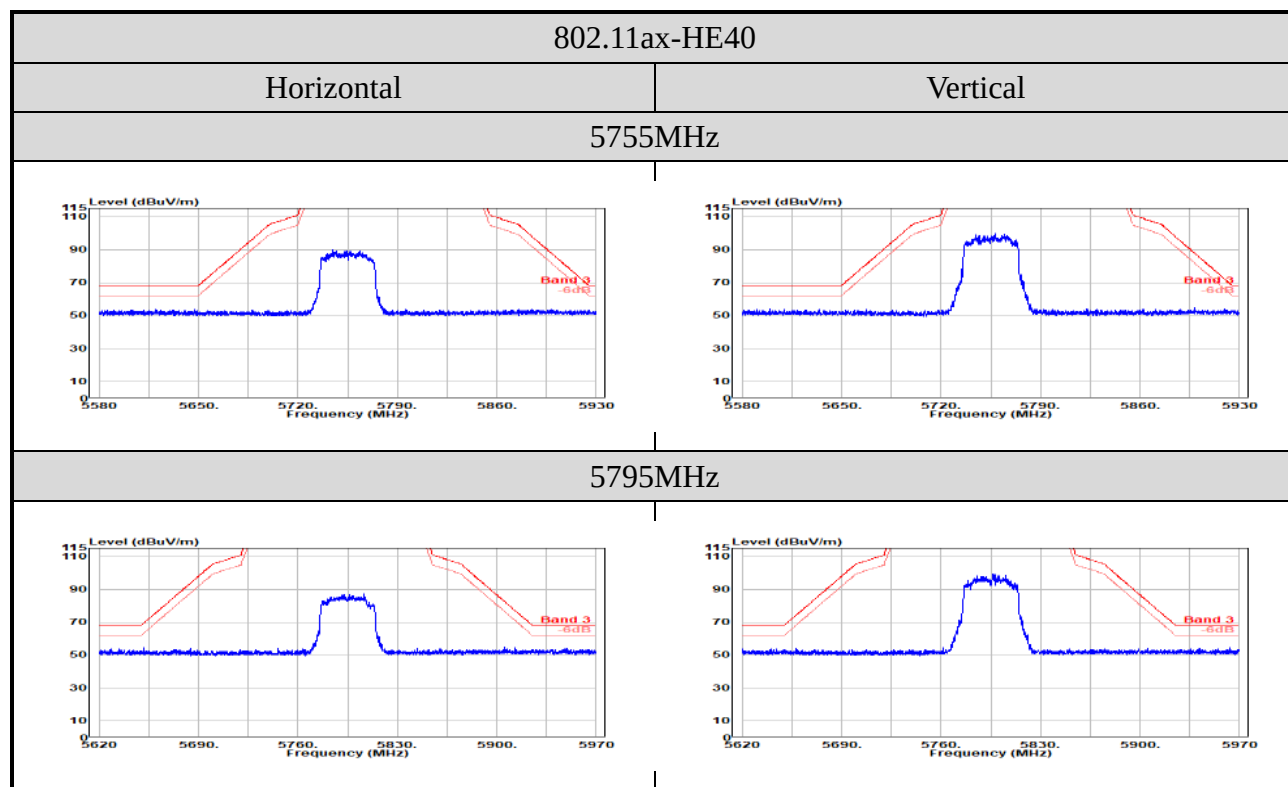
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Fax: +886 2 26099303





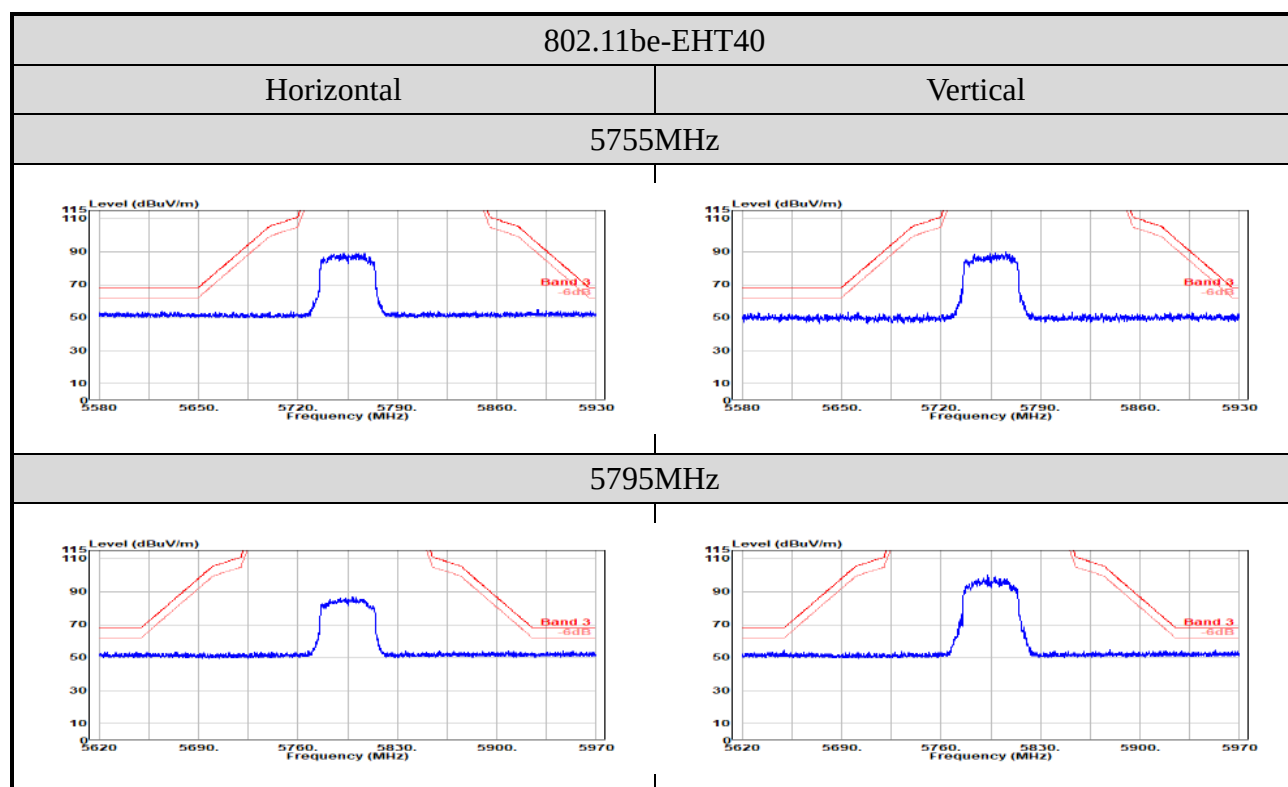
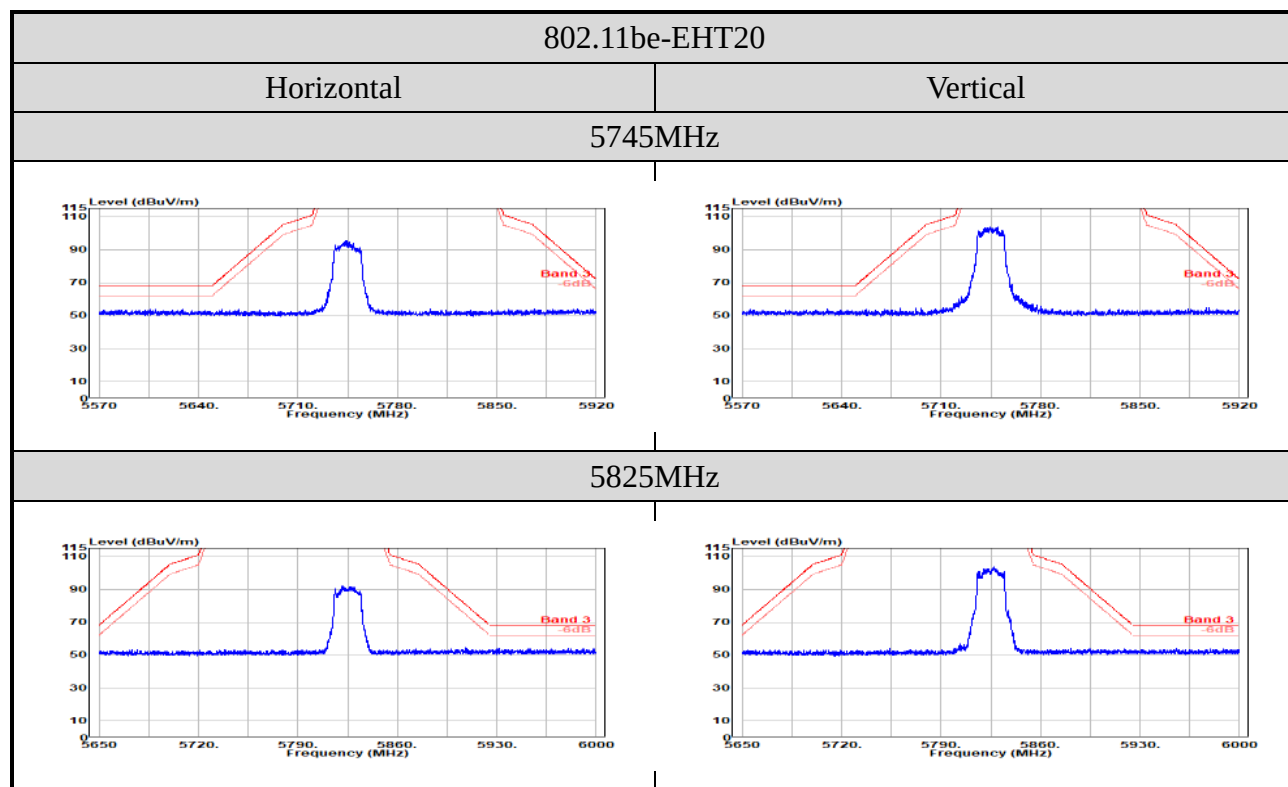
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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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



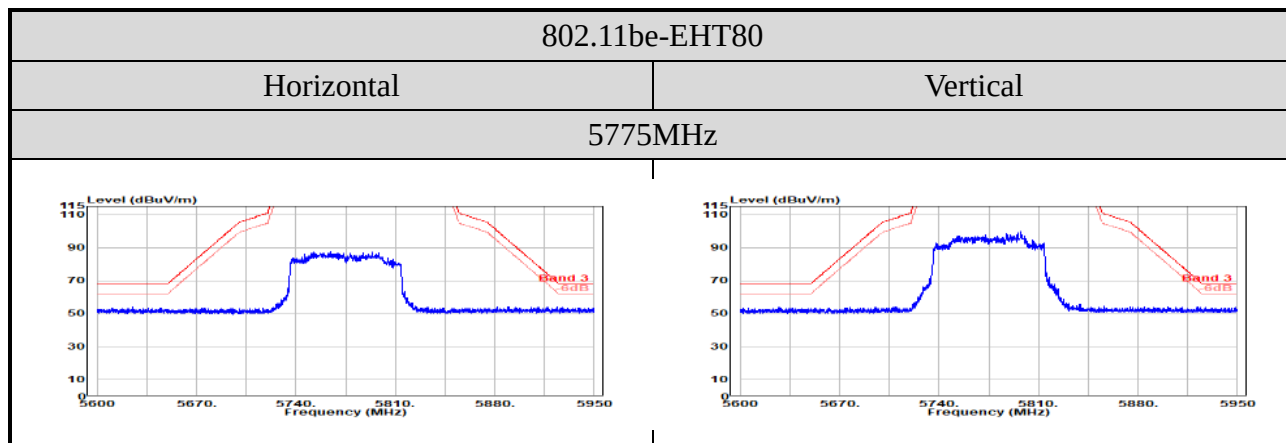
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New Taipei City 244, Taiwan

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



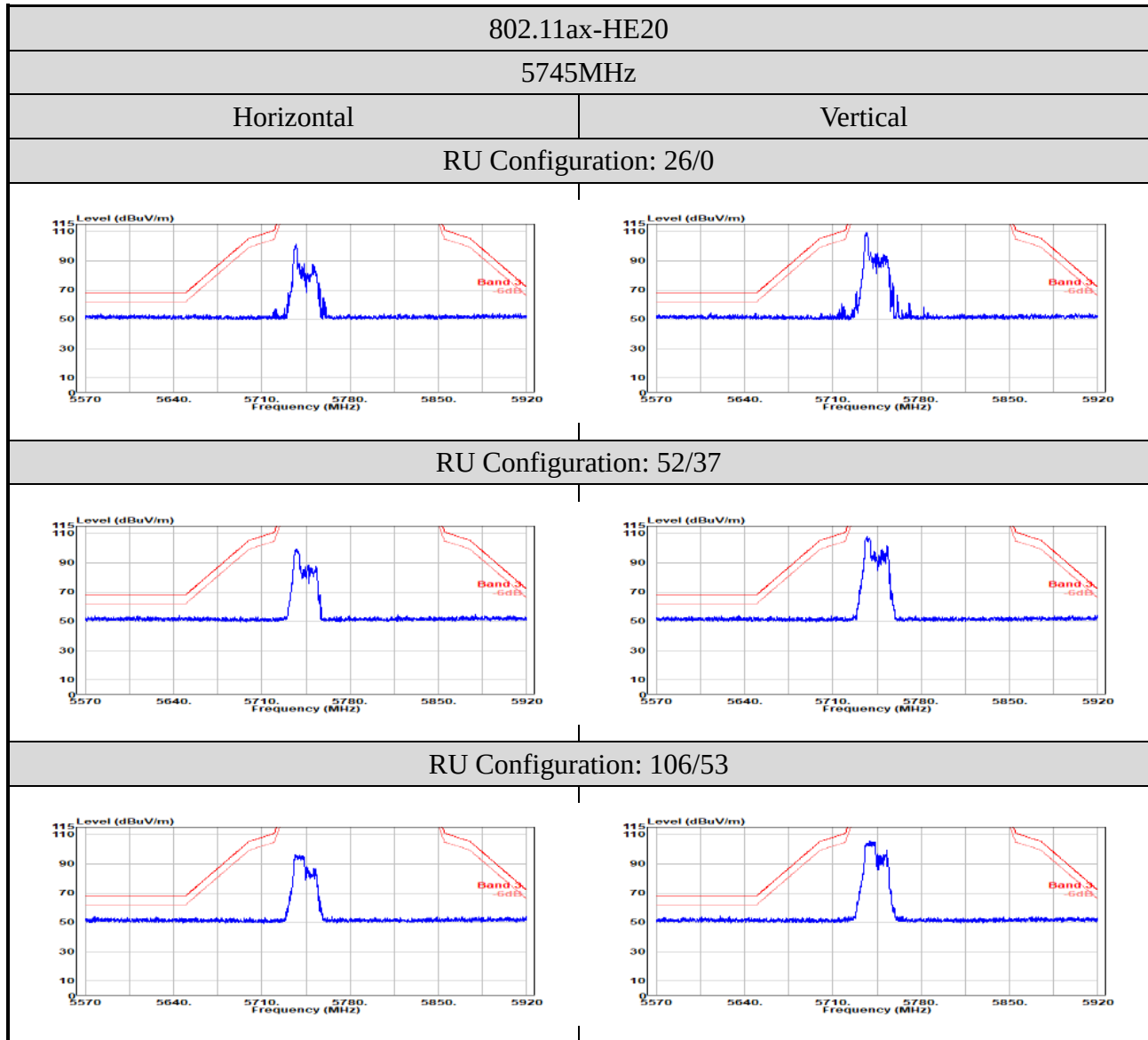
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New Taipei City244, Taiwan

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



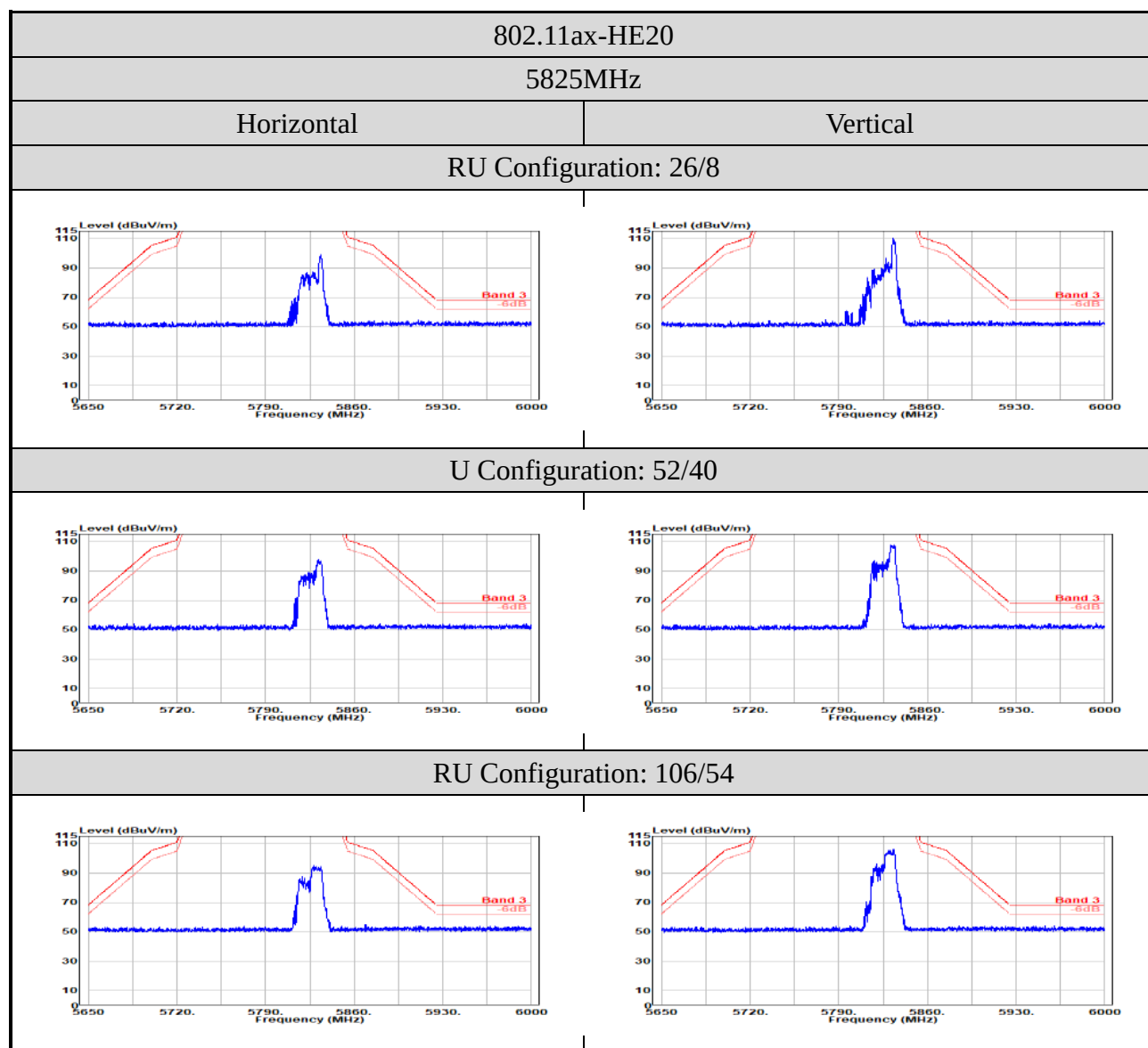
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New Taipei City 244, Taiwan

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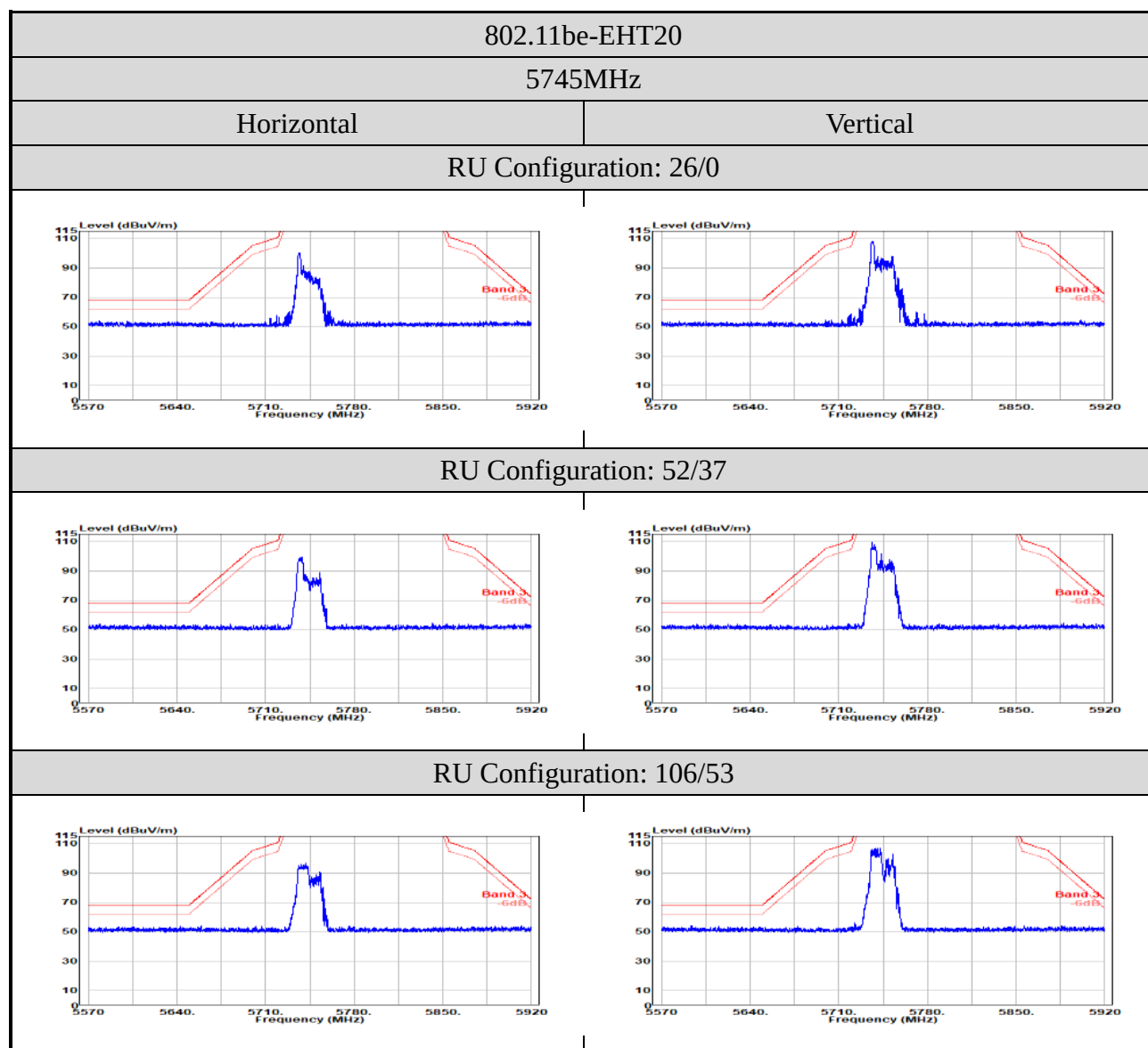
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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



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Fax: +886 2 26099303



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

