

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

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A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Date	2025/02/11~20	Temp./Hum.	19 ~ 22℃/58 ~ 64%
Cable Loss	5.58dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Power Spectral Density Result

● OFDM Modulation

Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total Power Spectral Density (dBm/1MHz) ^{Note2}	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE20	5	5955	-8.129	-7.691	N/A	2.46	-2.43	-1
		6175	-8.441	-7.915		2.46	-2.70	
		6415	-7.901	-8.056		2.46	-2.51	
	6	6435	-7.785	-8.142		2.50	-2.45	
		6475	-7.896	-7.534		2.50	-2.20	
		6515	-7.536	-7.474		2.50	-1.99	
	7	6535	-7.309	-7.199		2.31	-1.93	
		6695	-7.656	-8.045		2.31	-2.53	
		6855	-7.399	-7.253		2.31	-2.01	
	8	6875	-7.281	-7.051		2.11	-2.04	
		6995	-7.496	-7.469		2.11	-2.36	
		7115	-15.879	-15.432		2.11	-10.53	
802.11ax-HE40	5	5965	-7.993	-7.567	N/A	2.46	-2.30	-1
		6165	-8.108	-7.886		2.46	-2.53	
		6405	-7.995	-8.157		2.46	-2.60	
	6	6445	-7.795	-8.223		2.50	-2.49	
		6485	-7.777	-7.543		2.50	-2.15	
	7	6525	-7.544	-7.723		2.31	-2.31	
		6685	-7.927	-8.116		2.31	-2.70	
		6845	-7.210	-7.570		2.31	-2.07	
	8	6885	-7.076	-7.228		2.11	-2.03	
		7005	-7.593	-7.609		2.11	-2.48	
		7085	-7.626	-7.403		2.11	-2.39	

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

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

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

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

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ 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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			AUX	Main				
802.11ax-HE80	5	5985	-7.990	-7.859	N/A	2.46	-2.45	-1
		6145	-8.023	-7.694		2.46	-2.39	
		6385	-8.086	-8.293		2.46	-2.72	
	6	6465	-8.098	-8.360		2.50	-2.72	
		6545	-7.934	-7.813		2.50	-2.36	
		6625	-7.857	-7.958		2.31	-2.59	
	7	6705	-8.323	-8.418		2.31	-3.05	
		6785	-8.178	-8.177		2.31	-2.86	
	8	6865	-7.902	-7.932		2.11	-2.80	
		6945	-7.956	-8.195		2.11	-2.95	
		7025	-8.173	-7.939		2.11	-2.93	
802.11ax-HE160	5	6025	-8.163	-7.957	N/A	2.46	-2.59	-1
		6185	-8.439	-8.232		2.46	-2.86	
		6345	-8.416	-8.378		2.46	-2.93	
	6	6505	-8.707	-8.630		2.50	-3.16	
		6665	-8.054	-8.156		2.31	-2.78	
		6825	-8.187	-8.362		2.31	-2.95	
	8	6985	-8.334	-8.301		2.11	-3.20	

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

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6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2]$ = 2.31dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2]$ = 2.11dBi

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4. We only presented max result (worst case) plots for each test mode.

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			AUX	Main				
802.11be-EHT20	5	5955	-7.540	-7.880	N/A	2.46	-2.24	-1
		6175	-7.777	-7.681		2.46	-2.26	
		6415	-8.017	-7.920		2.46	-2.50	
	6	6435	-7.974	-8.003		2.50	-2.48	
		6475	-7.457	-7.729		2.50	-2.08	
		6515	-7.341	-7.430		2.50	-1.87	
	7	6535	-7.301	-7.217		2.31	-1.94	
		6695	-8.016	-7.967		2.31	-2.67	
		6855	-6.958	-7.273		2.31	-1.79	
	8	6875	-6.775	-7.119		2.11	-1.82	
		6995	-7.293	-7.452		2.11	-2.25	
		7115	-15.454	-15.486		2.11	-10.35	
802.11be-EHT40	5	5965	-7.663	-7.554	N/A	2.46	-2.14	-1
		6165	-7.807	-7.654		2.46	-2.26	
		6405	-8.168	-8.029		2.46	-2.63	
	6	6445	-8.245	-8.065		2.50	-2.64	
		6485	-7.741	-7.687		2.50	-2.20	
	7	6525	-7.539	-7.544		2.31	-2.22	
		6685	-8.161	-7.996		2.31	-2.76	
		6845	-7.504	-7.717		2.31	-2.29	
	8	6885	-7.259	-7.296		2.11	-2.16	
		7005	-7.536	-7.559		2.11	-2.43	
		7085	-7.504	-7.542		2.11	-2.40	

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			AUX	Main				
802.11be-EHT80	5	5985	-7.849	-7.934	N/A	2.46	-2.42	-1
		6145	-7.944	-8.086		2.46	-2.54	
		6385	-8.423	-8.367		2.46	-2.92	
	6	6465	-8.153	-8.332		2.50	-2.73	
		6545	-7.699	-7.680		2.50	-2.18	
		6625	-7.737	-7.751		2.31	-2.42	
	7	6705	-8.458	-8.582		2.31	-3.20	
		6785	-8.029	-8.210		2.31	-2.80	
	8	6865	-8.017	-7.892		2.11	-2.83	
		6945	-8.080	-8.251		2.11	-3.04	
		7025	-7.897	-8.208		2.11	-2.93	
802.11be-EHT160	5	6025	-8.014	-7.986	N/A	2.46	-2.53	-1
		6185	-8.541	-8.449		2.46	-3.02	
		6345	-8.171	-8.541		2.46	-2.88	
	6	6505	-8.597	-8.460		2.50	-3.02	
		6665	-8.242	-8.173		2.31	-2.89	
	7	6825	-8.171	-8.080		2.31	-2.80	
		6985	-8.022	-8.191		2.11	-2.99	
	8	6985	-8.022	-8.191		2.11	-2.99	
802.11be-EHT320	5	6105	-8.226	-8.010	N/A	2.46	-2.65	-1
		6265	-8.126	-8.282		2.46	-2.73	
		6425	-8.333	-8.513		2.46	-2.95	
	6	6585	-8.291	-8.272		2.50	-2.77	
	7	6745	-8.015	-8.021		2.31	-2.70	
	8	6905	-10.036	-10.098		2.11	-4.95	
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● OFDMA Modulation

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) Note3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit (dBm/MHz)
					AUX	Main				
26T	18	802.11ax-HE80	7	6625	-6.562	-6.681	N/A	2.31	-1.30	-1
52T	52	802.11ax-HE80	6	6545	-7.433	-7.570	N/A	2.50	-1.99	
106T	56	802.11ax-HE80	6	6545	-7.517	-7.402	N/A	2.50	-1.95	
242T	62	802.11ax-HE160	7	6705	-7.503	-7.770	N/A	2.31	-2.31	
484T	65	802.11ax-HE80	7	6625	-7.488	-7.141	N/A	2.31	-1.99	
996T	S67	802.11ax-HE160	6	6505	-7.515	-8.067	N/A	2.50	-2.27	

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					AUX	Main				
26	W0	802.11be-EHT320	6	6585	-7.646	-8.341	N/A	2.50	-2.47	-1
52	37	802.11be-EHT160	7	6665	-8.068	-7.132	N/A	2.31	-2.25	
106	60	802.11be-EHT160	7	6665	-7.618	-6.933	N/A	2.31	-1.94	
242	T62	802.11be-EHT320	6	6585	-7.612	-7.403	N/A	2.50	-2.00	
484	66	802.11be-EHT320	7	6745	-7.664	-7.359	N/A	2.31	-2.19	
996	T67	802.11be-EHT320	6	6585	-7.258	-7.754	N/A	2.50	-1.99	
996x2	W68	802.11be-EHT320	6	6585	-8.027	-7.006	N/A	2.50	-1.98	
26+52	70	802.11be-EHT20	7	6695	-7.942	-8.389	N/A	2.31	-2.84	
26+52	70	802.11be-EHT40	7	6685	-8.141	-7.910	N/A	2.31	-2.70	
26+106	82	802.11be-EHT20	7	6855	-7.436	-6.990	N/A	2.31	-1.89	
26+106	85	802.11be-EHT40	5	5965	-7.412	-7.343	N/A	2.46	-1.91	
484+242	93	802.11be-EHT80	6	6545	-7.293	-7.484	N/A	2.50	-1.88	
996+484	94	802.11be-EHT160	5	6345	-8.189	-7.334	N/A	2.46	-2.27	
996+484+242	S99	802.11be-EHT160	5	6025	-6.624	-7.447	N/A	2.46	-1.55	
996x2+484	W103	802.11be-EHT320	5	6585	-7.616	-6.954	N/A	2.46	-1.80	
996x3	W104	802.11be-EHT320	6	6105	-7.589	-7.733	N/A	2.50	-2.15	
996x3+484	W105	802.11be-EHT320	6	6105	-7.717	-7.803	N/A	2.50	-2.25	

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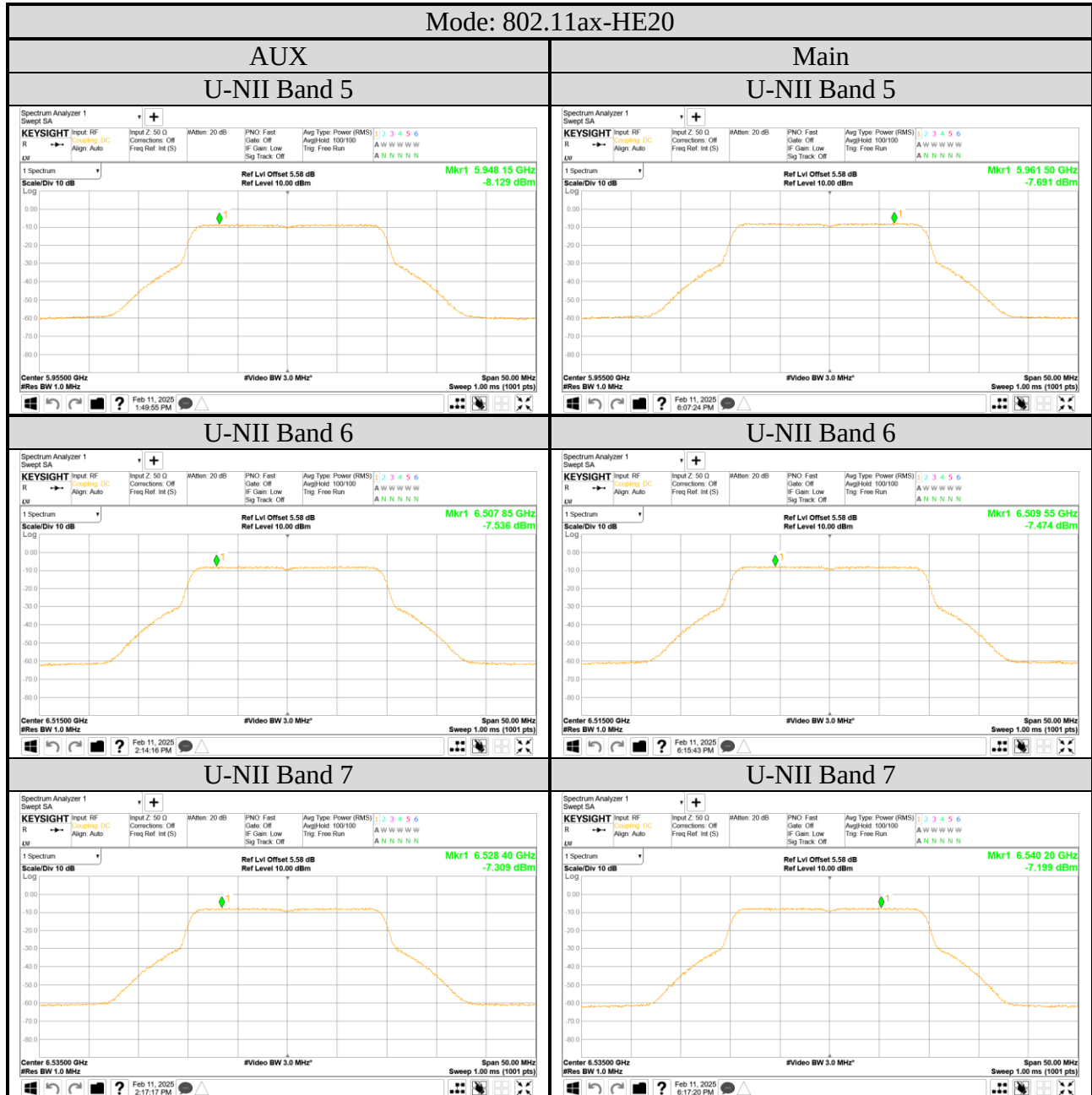
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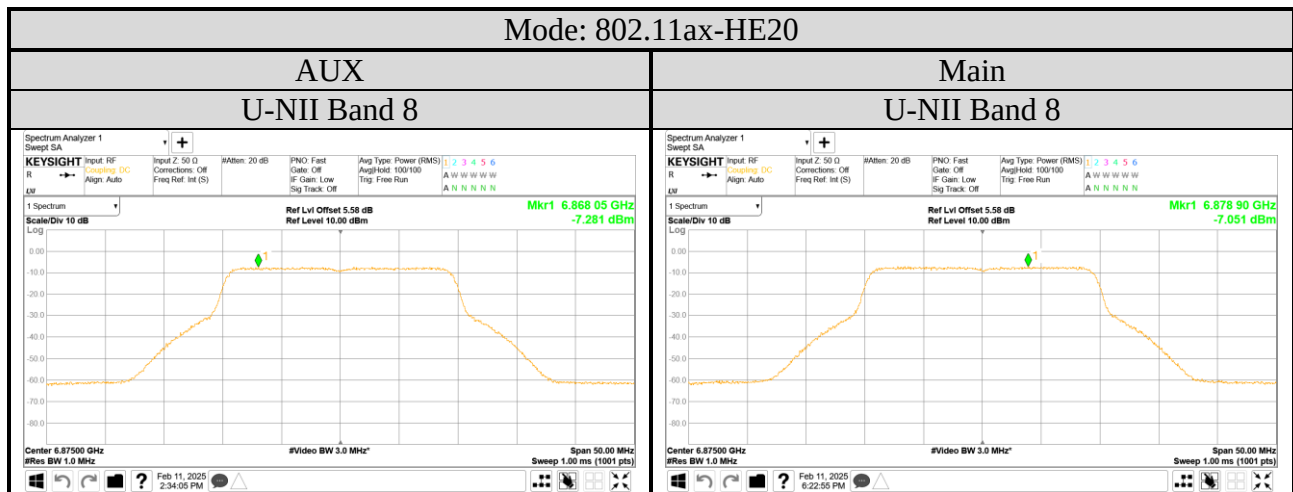
A.3.2 Measurement Plots

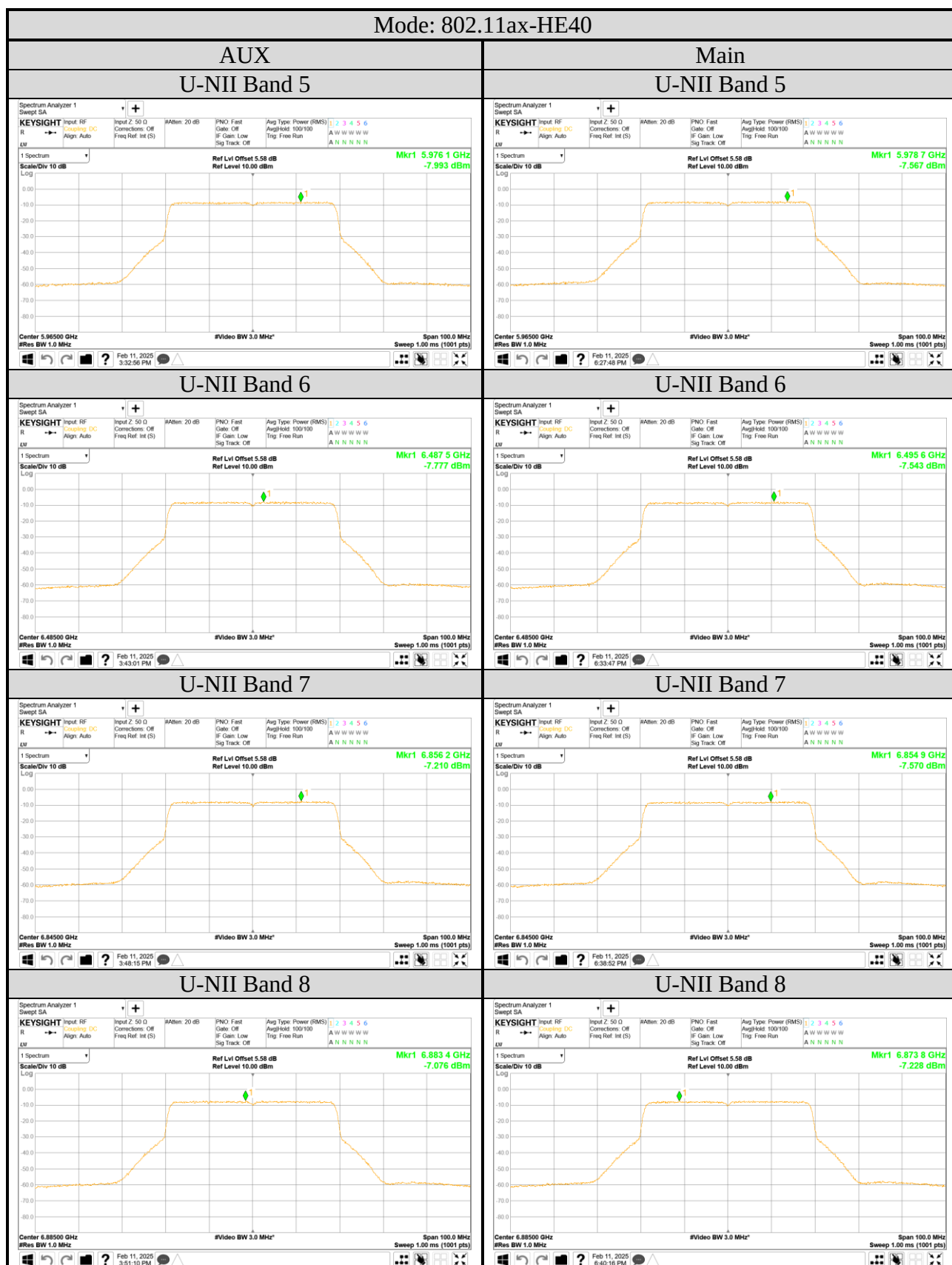
● OFDM Modulation



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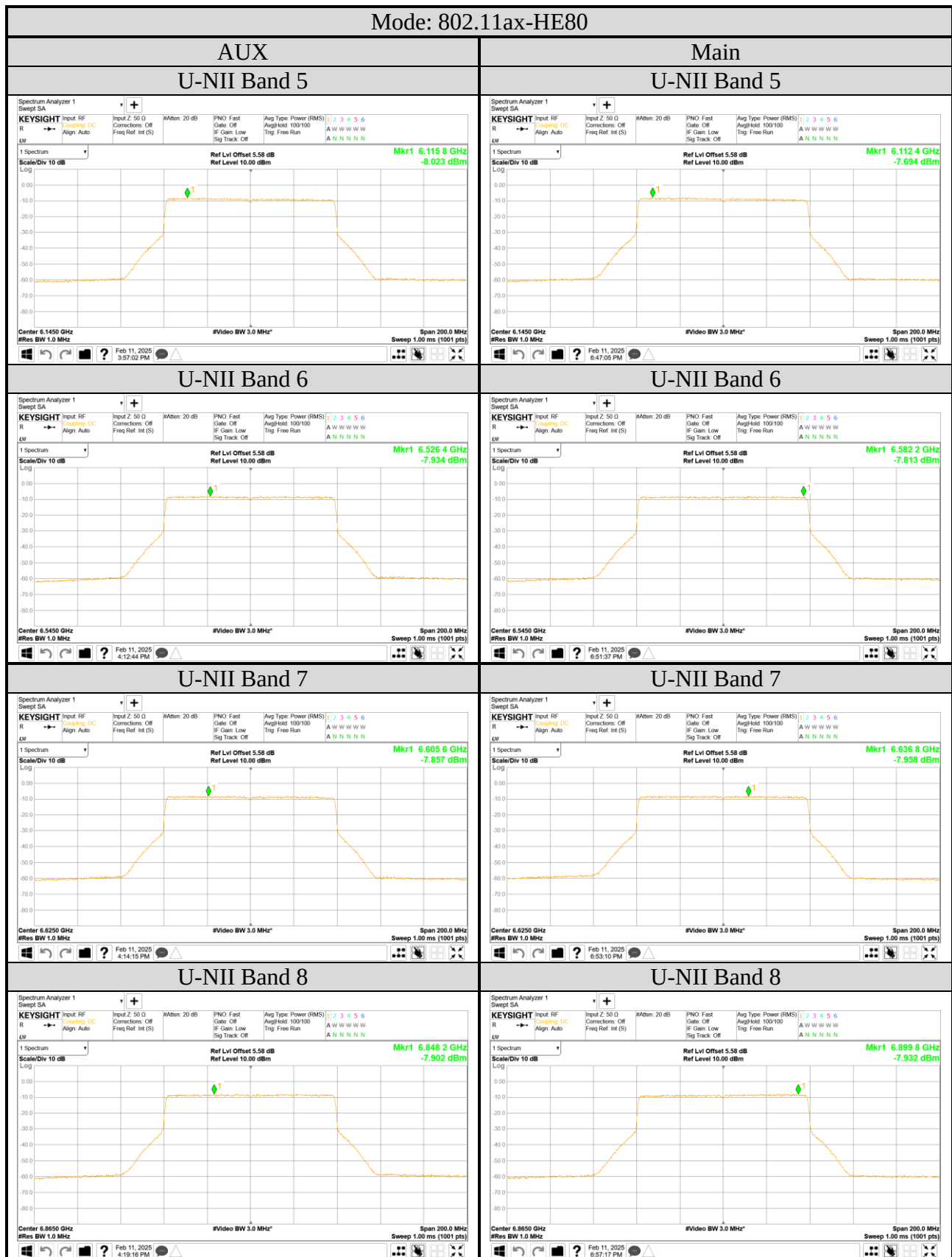
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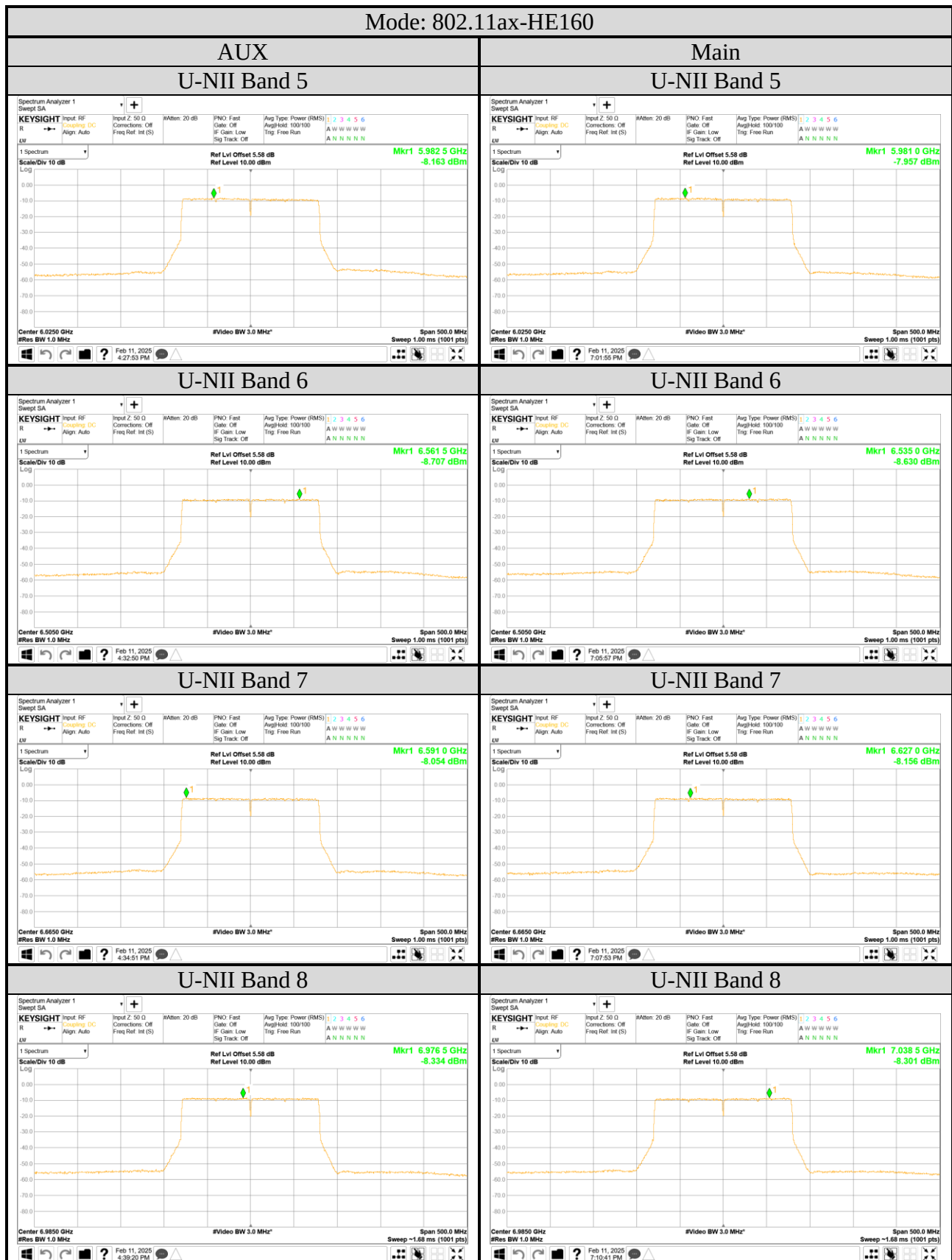
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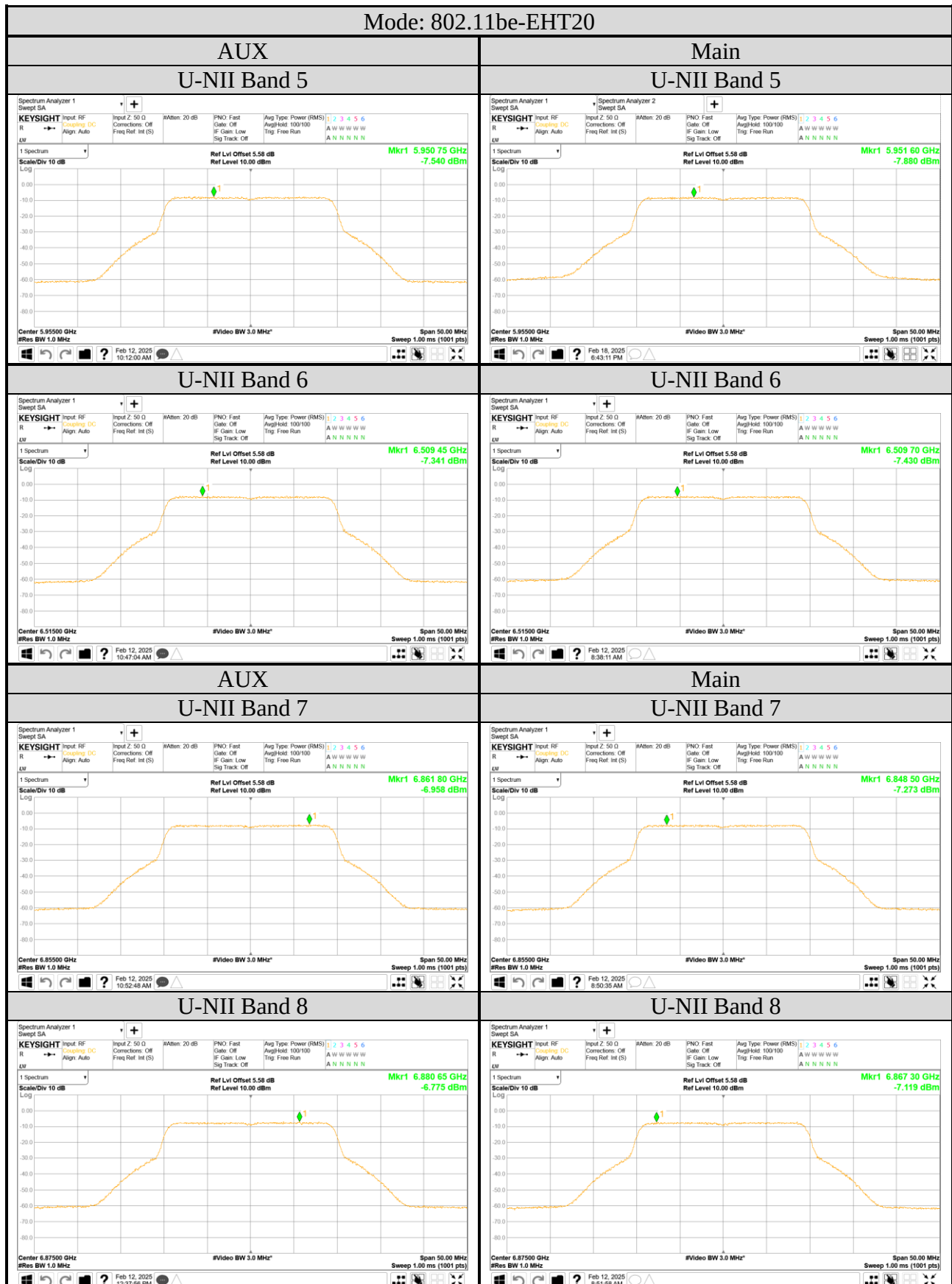
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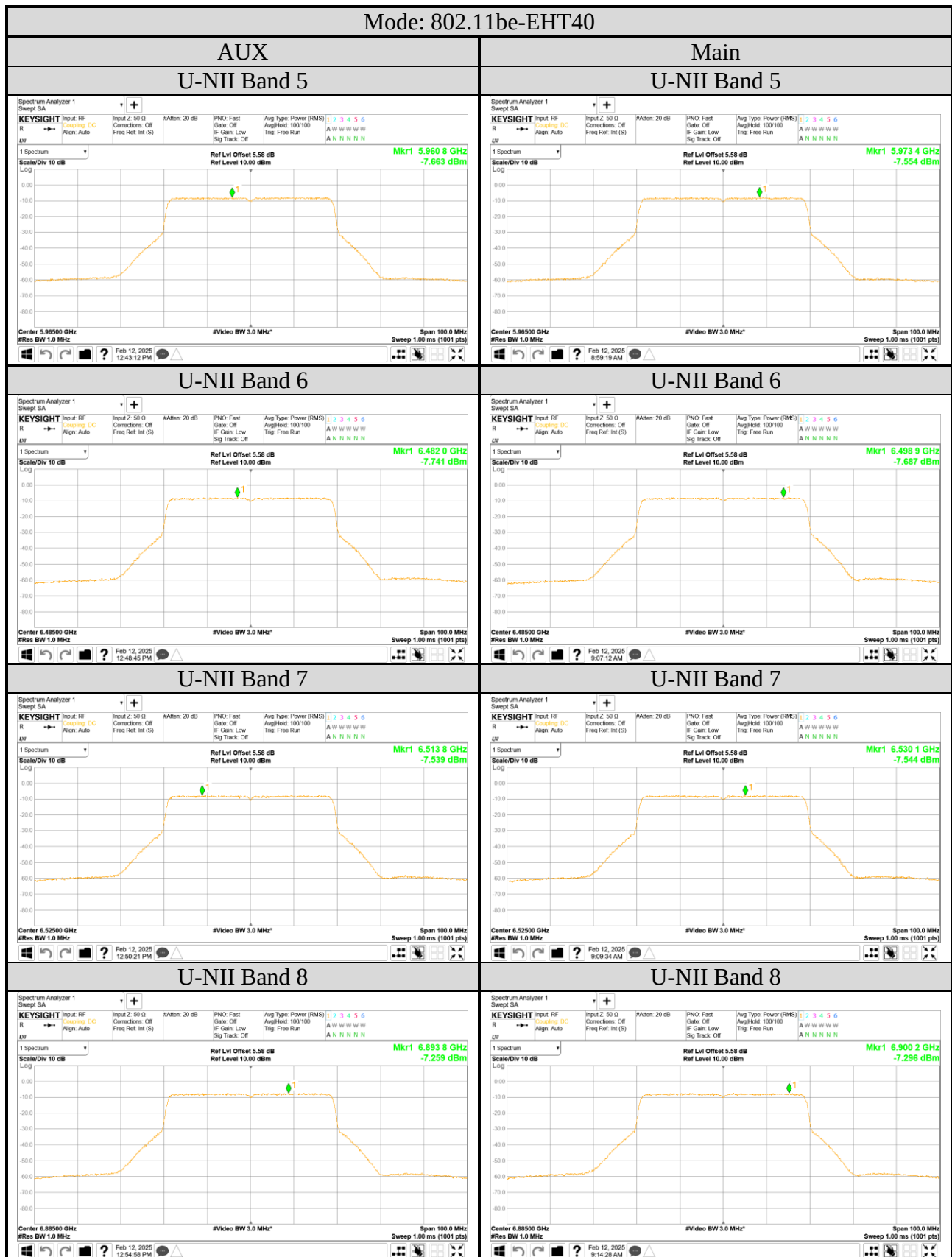
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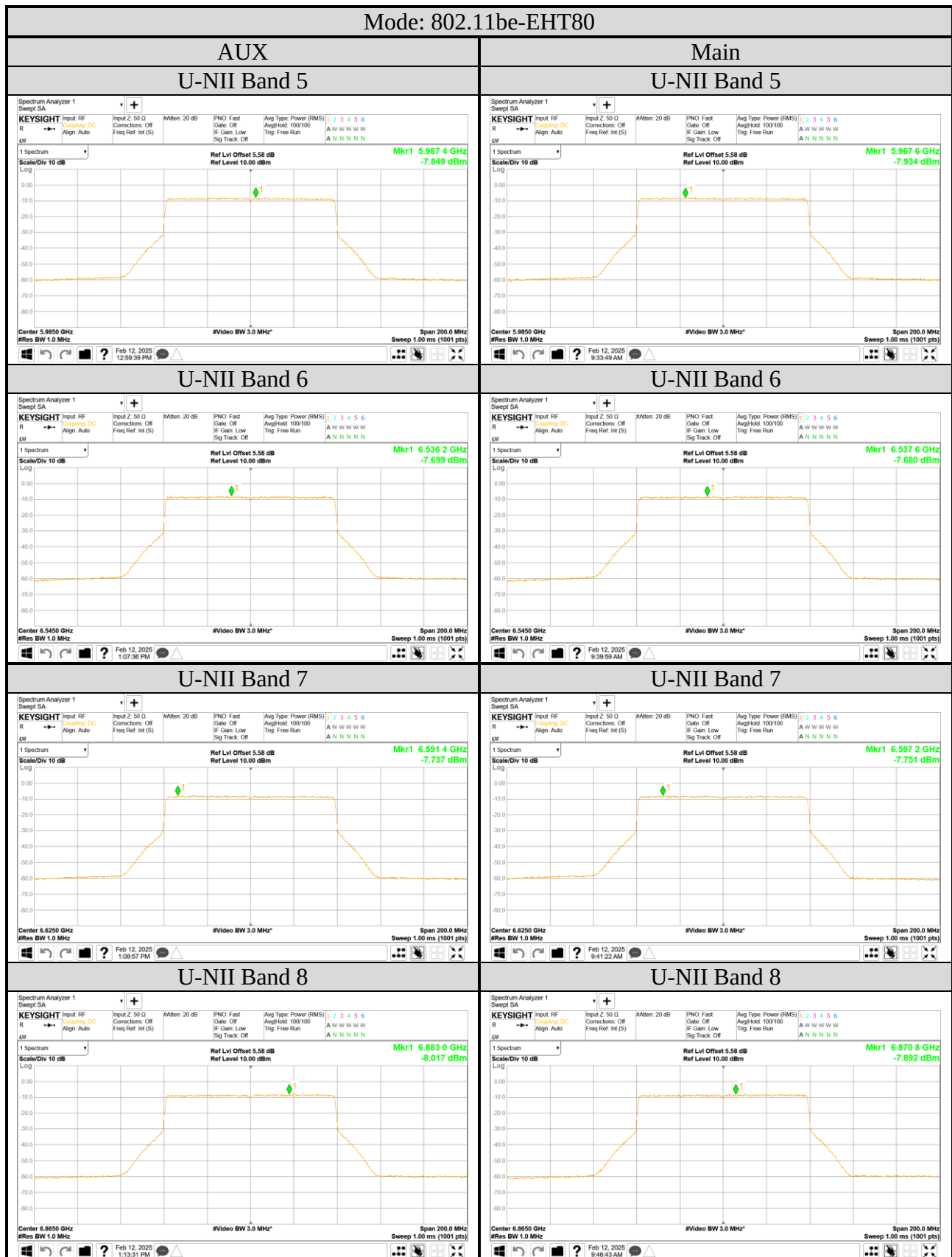
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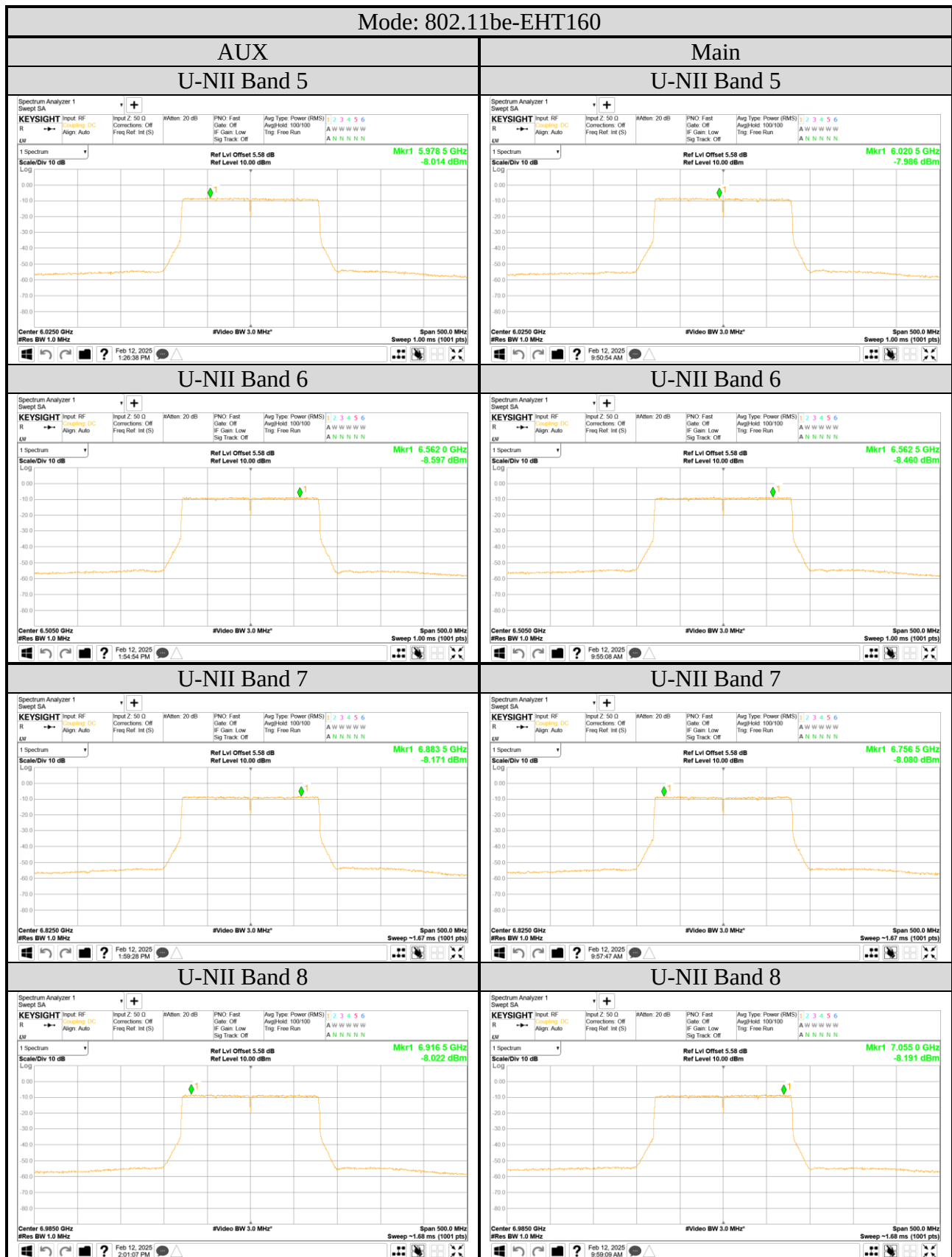
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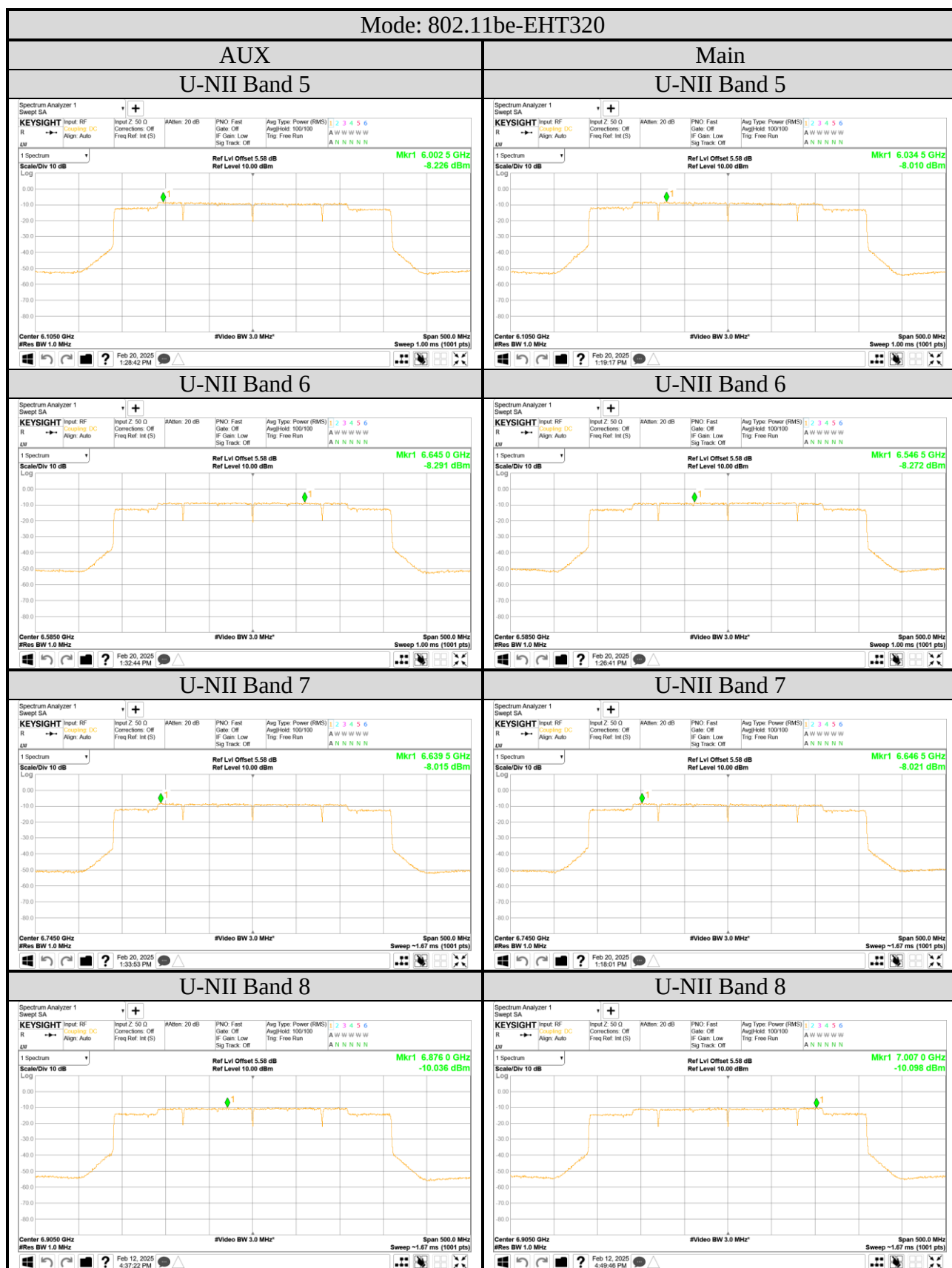
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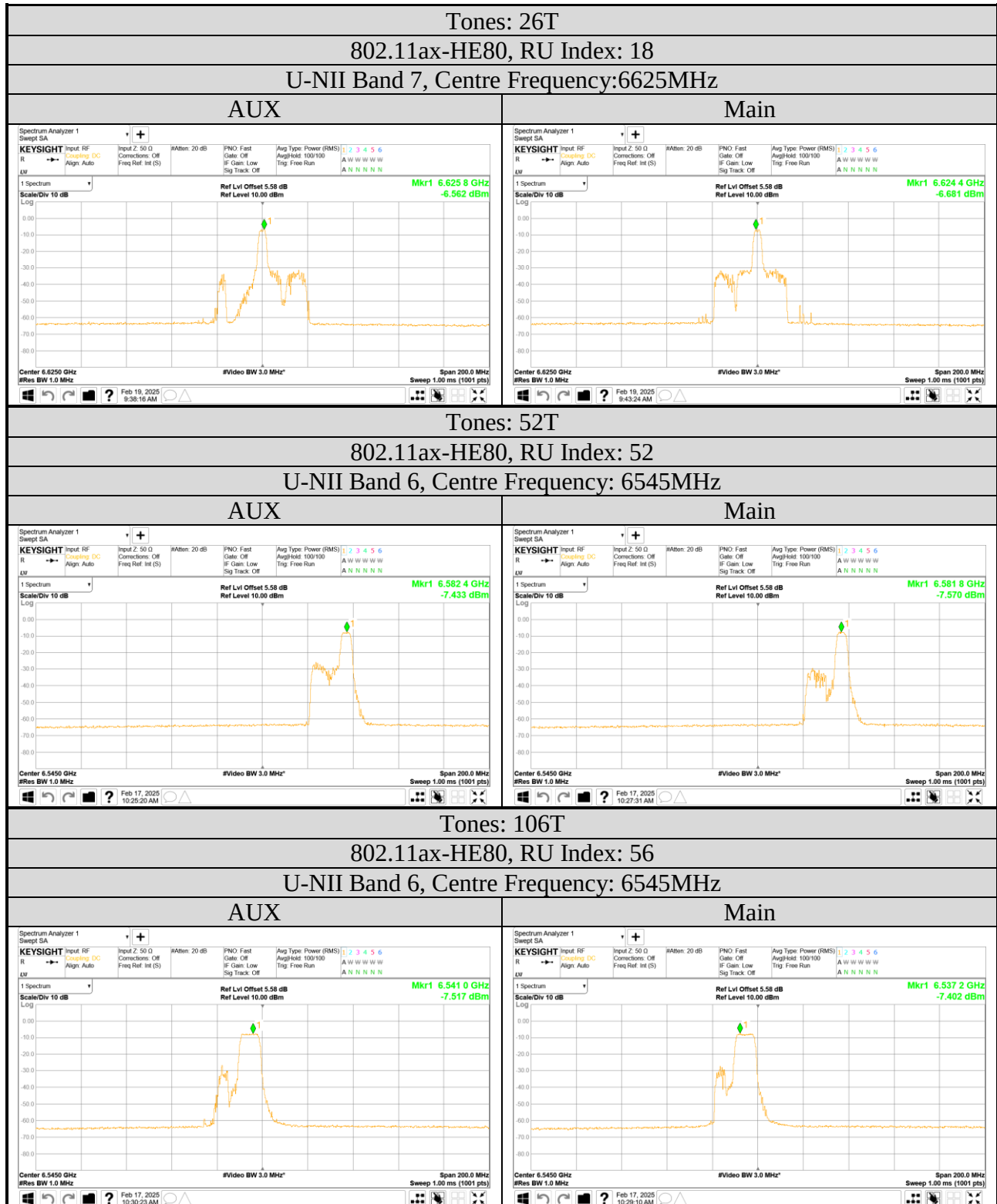
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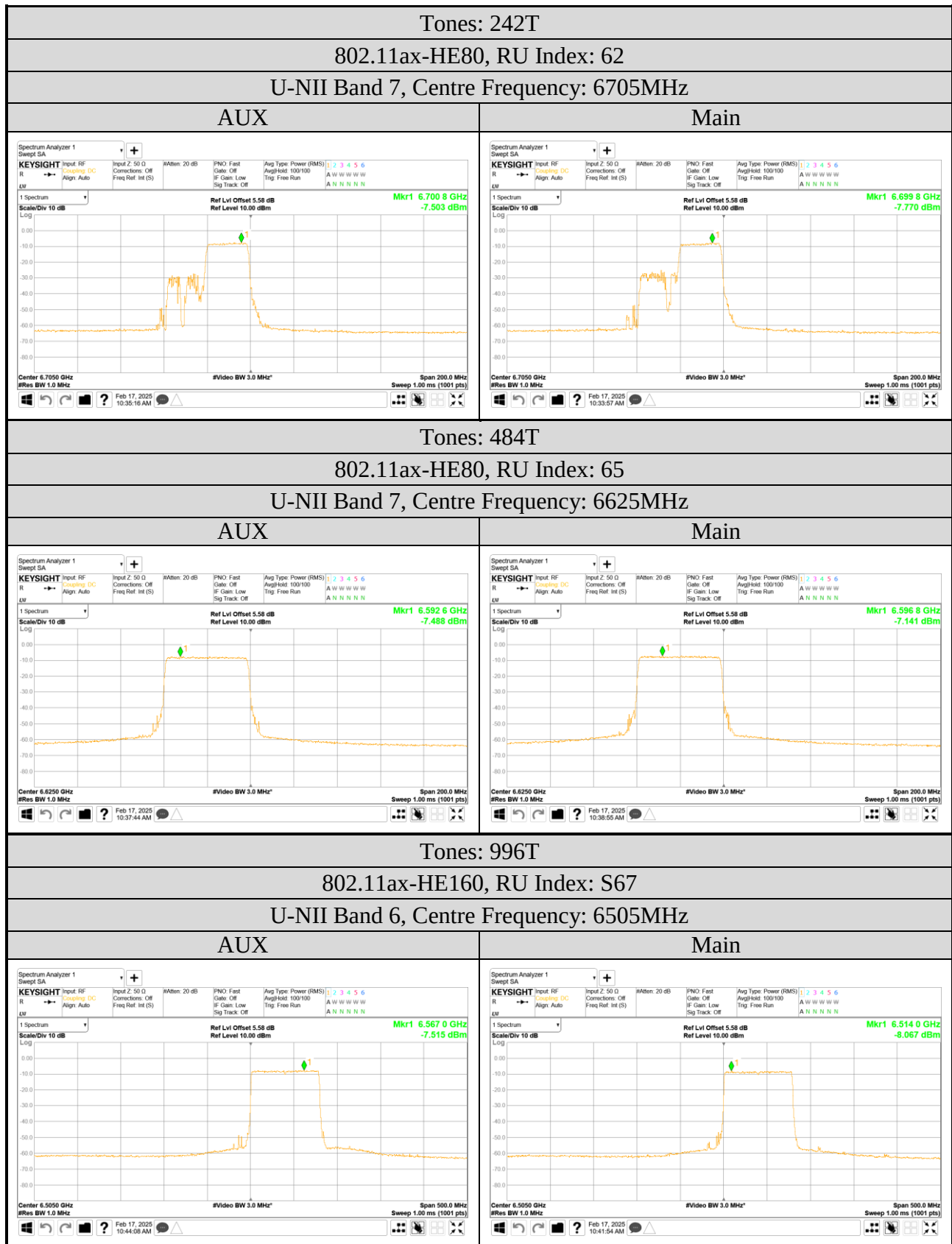
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● OFDMA Modulation



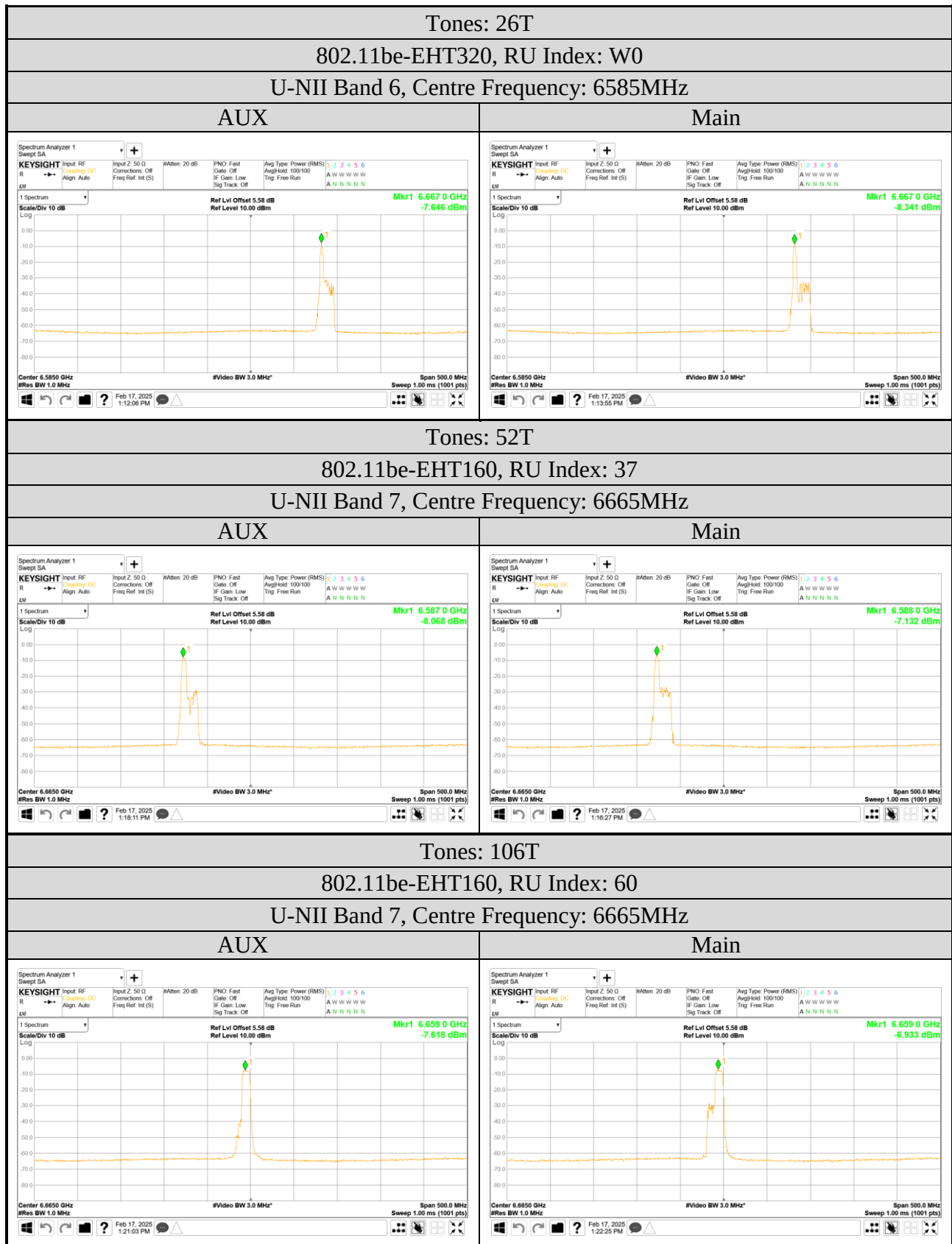
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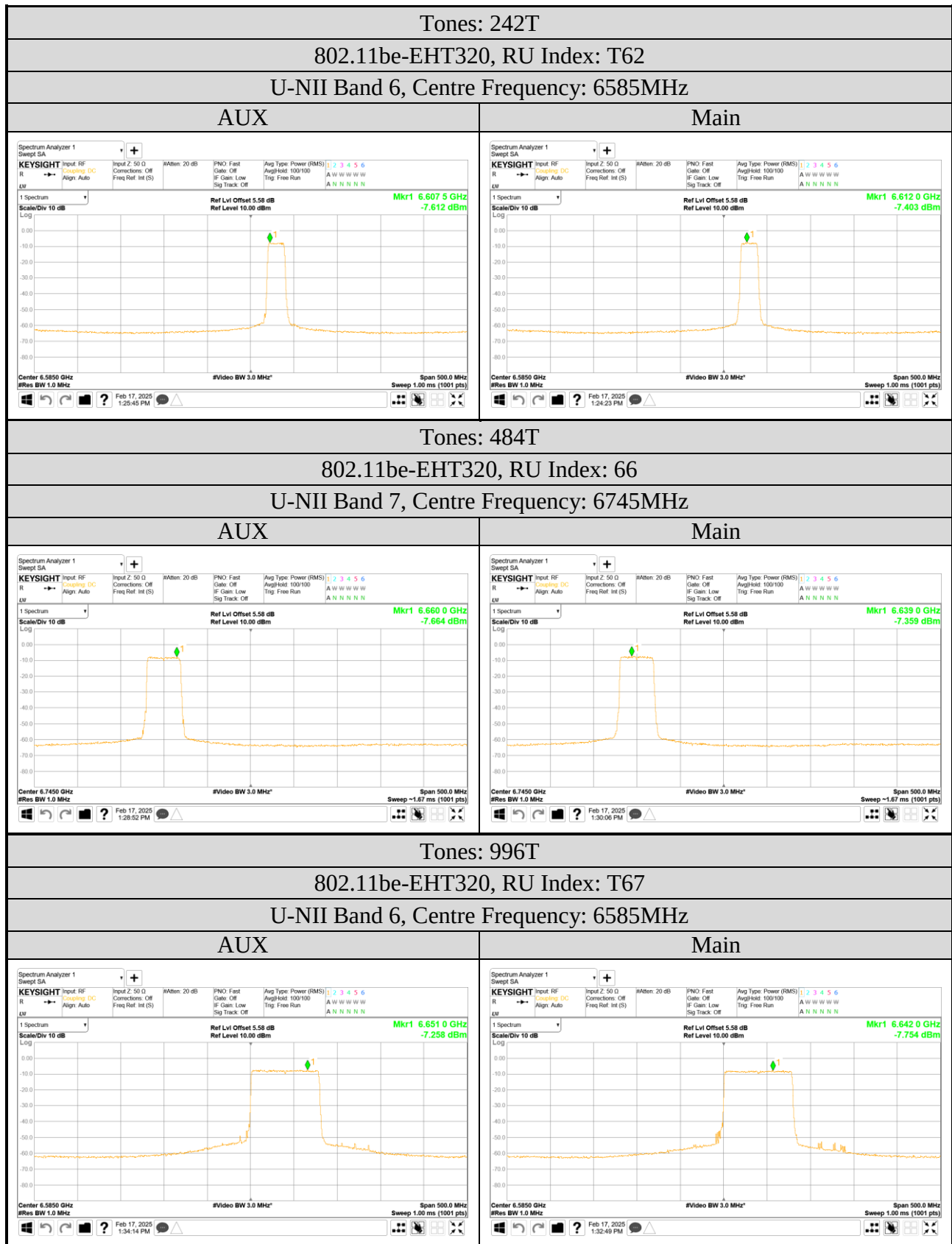
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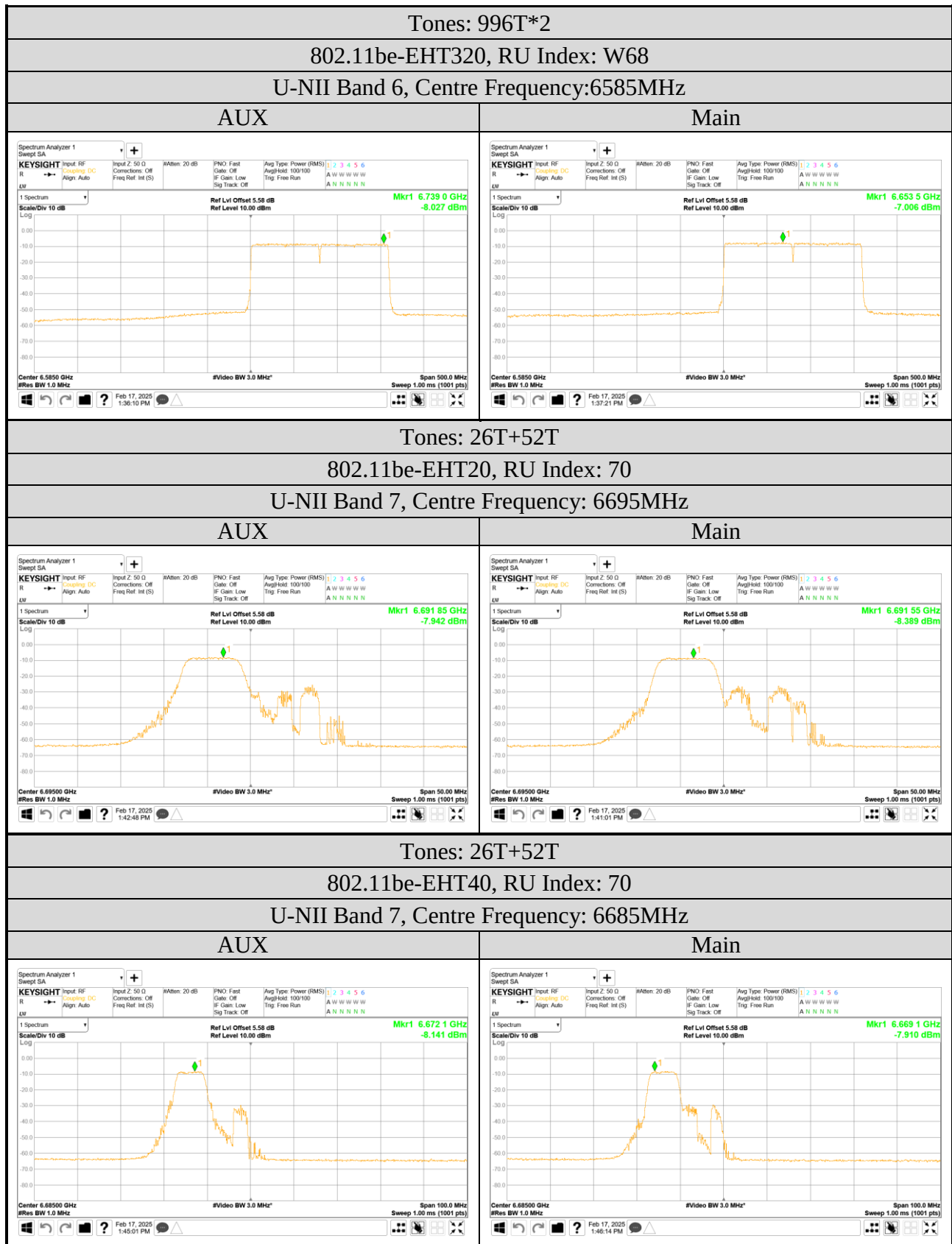
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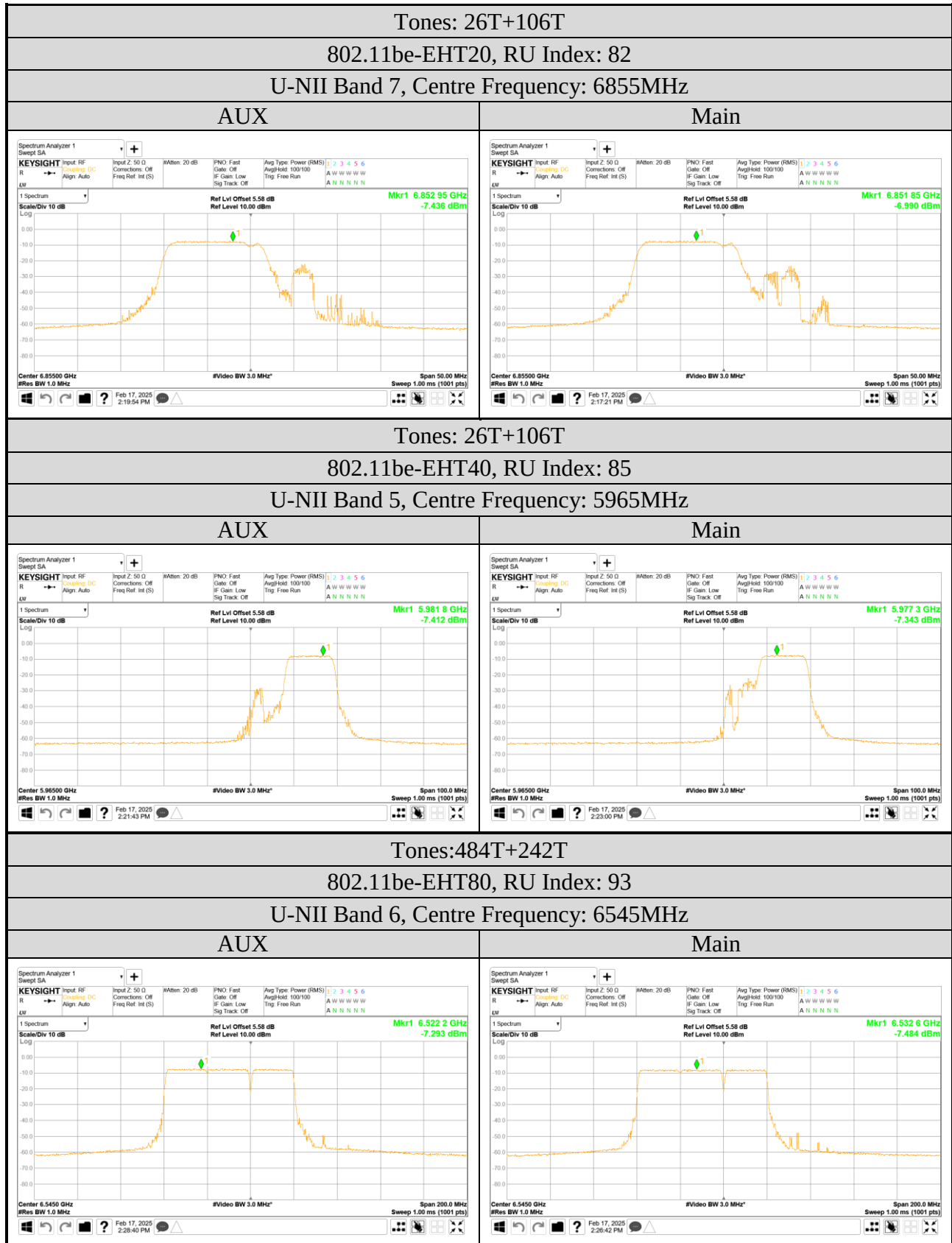
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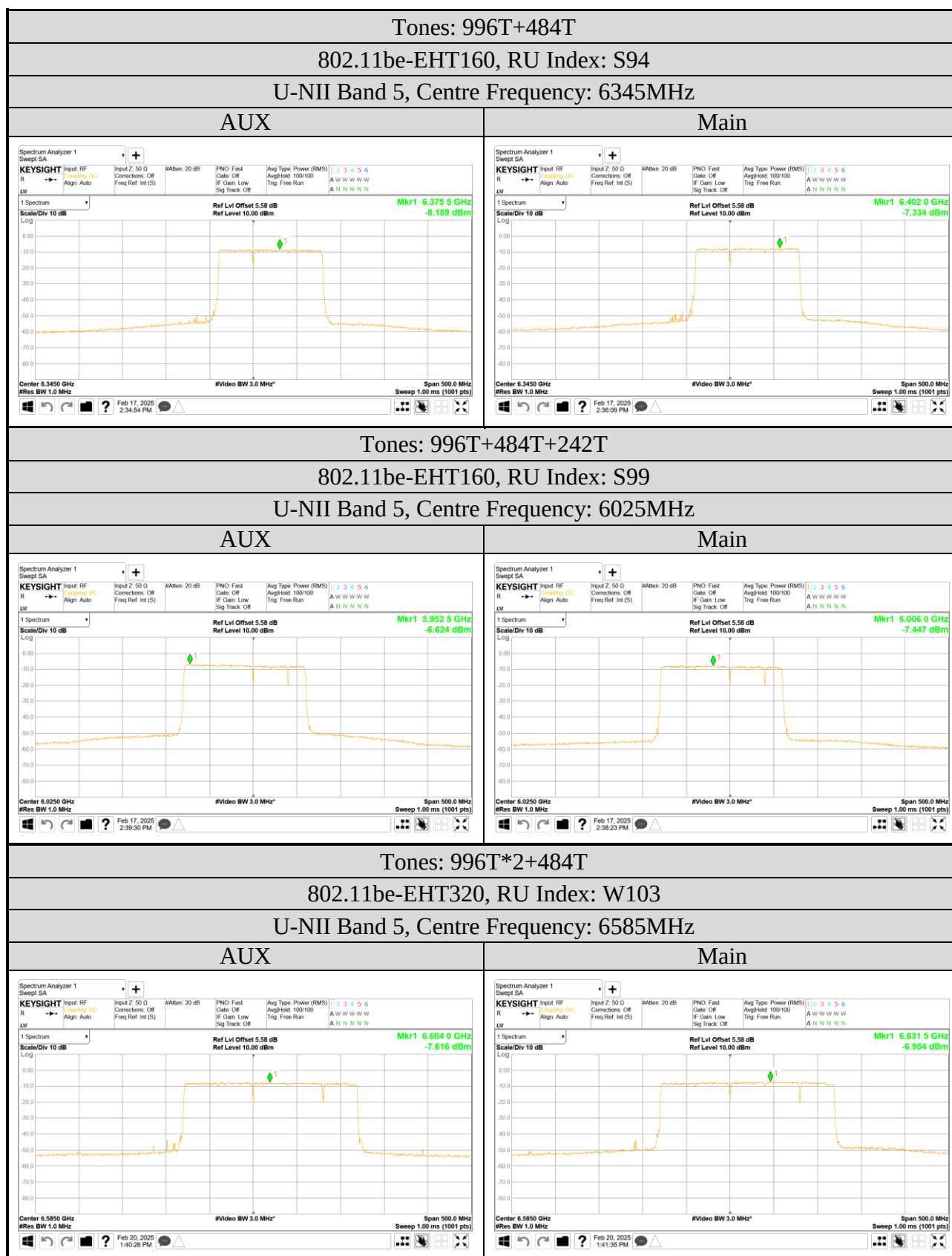
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