

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

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

A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Date	2025/09/15~09/27	Temp./Hum.	22~26°C/55~61%
Cable Loss	AUX: 3.45/1.50dB, Main: 2.52/1.50dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

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A.3.1 Power Spectral Density Result

● OFDM Modulation

Mode		Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) ^{Note 2}	Total Power Spectral Density (dBm/1MHz)(EIRP) ^{Note 2}	Limit
			Aux	Main				
802.11ax-HE20	U-NII Band 5	5955	-10.204	-9.645	N/A	5.06	-1.845	-1dBm/MHz
		6175	-12.067	-10.208		5.06	-2.968	
		6415	-10.260	-9.801		5.06	-1.954	
	U-NII Band 6	6435	-10.080	-9.903	N/A	2.12	-4.860	
		6475	-9.951	-9.721		2.12	-4.704	
		6515	-9.962	-9.316		2.12	-4.497	
	U-NII Band 7	6535	-9.998	-9.428	N/A	3.24	-3.453	
		6695	-10.010	-9.261		3.24	-3.369	
		6855	-10.528	-9.979		3.24	-3.995	
	U-NII Band 8	6875	-10.520	-9.711	N/A	3.56	-3.526	
		6995	-11.118	-9.992		3.56	-3.948	
		7115	-19.089	-19.021		3.56	-12.485	
802.11ax-HE40	U-NII Band 5	5965	-10.334	-9.603	N/A	5.06	-1.883	-1dBm/MHz
		6165	-11.172	-10.382		5.06	-2.689	
		6405	-10.283	-9.871		5.06	-2.002	
	U-NII Band 6	6445	-10.258	-9.677	N/A	2.12	-4.827	
		6485	-10.087	-9.492		2.12	-4.649	
		6525	-10.143	-9.443		3.24	-3.529	
	U-NII Band 7	6685	-10.106	-9.622	N/A	3.24	-3.607	
		6845	-10.559	-9.933		3.24	-3.984	
		6885	-10.477	-9.969		3.56	-3.645	
	U-NII Band 8	7005	-11.299	-10.504	N/A	3.56	-4.313	
		7085	-11.415	-10.943		3.56	-4.602	
802.11ax-HE80	U-NII Band 5	5985	-10.888	-10.095	N/A	5.06	-2.403	-1dBm/MHz
		6145	-11.313	-10.524		5.06	-2.830	
		6385	-10.704	-10.395		5.06	-2.476	
	U-NII Band 6	6465	-10.504	-9.855	N/A	2.12	-5.037	
		6545	-10.535	-9.831		2.12	-5.038	
		6625	-10.464	-9.415		3.24	-3.658	
	U-NII Band 7	6705	-10.359	-9.757	N/A	3.24	-3.797	
		6785	-10.610	-10.098		3.24	-4.096	
		6865	-10.894	-10.198		3.56	-3.962	
	U-NII Band 8	6945	-11.151	-10.395	N/A	3.56	-4.186	
		7025	-11.760	-10.508		3.56	-4.519	
802.11ax-HE160	U-NII Band 5	6025	-10.746	-9.966	N/A	5.06	-2.268	-1dBm/MHz
		6185	-10.885	-10.148		5.06	-2.431	
		6345	-10.382	-10.172		5.06	-2.205	
	U-NII Band 6	6505	-9.882	-9.628	N/A	2.12	-4.623	
	U-NII Band 7	6665	-9.810	-9.523	N/A	3.24	-3.414	
		6825	-10.210	-9.595		3.24	-3.641	
	U-NII Band 8	6985	-10.579	-9.805	N/A	3.56	-3.604	

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) i), 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 = $10 \log[(10^{2.1/10} + 10^{6.8/10})/2] = 5.06$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{0.5/10} + 10^{3.3/10})/2] = 2.12$ dBi

6525~6825MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{3.8/10})/2] = 3.24$ dBi

6925~7125MHz: Directional gain = $10 \log[(10^{2.2/10} + 10^{6.6/10})/2] = 3.56$ 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).

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

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Mode		Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) ^{Note 2}	Total Power Spectral Density (dBm/1MHz)(EIRP) ^{Note 2}	Limit
			Aux	Main				
802.11be-EHT20	U-NII Band 5	6025	-10.212	-9.093	N/A	5.06	-2.268	-1dBm/MHz
		6185	-11.294	-10.162		5.06	-2.431	
		6345	-10.202	-9.699		5.06	-2.205	
	U-NII Band 6	6505	-10.203	-9.329	N/A	2.12	-4.623	
		6665	-9.946	-9.400		3.24	-3.414	
		6825	-9.704	-9.145		3.24	-3.641	
	U-NII Band 7	6985	-10.042	-9.144	N/A	3.56	-3.604	
		5955	-9.996	-9.227		5.06	-1.546	
		6175	-10.446	-9.756		5.06	-2.621	
	U-NII Band 8	6415	-10.423	-9.063	N/A	5.06	-1.873	
		6435	-11.112	-10.019		2.12	-4.614	
		6475	-19.033	-19.217		2.12	-4.534	
802.11be-EHT40	U-NII Band 5	6515	-10.418	-9.860	N/A	2.12	-4.285	-1dBm/MHz
		6535	-11.175	-10.394		3.24	-3.320	
		6695	-10.329	-9.705		3.24	-3.344	
	U-NII Band 6	6855	-10.286	-9.864	N/A	3.24	-3.837	
		6875	-10.032	-9.634		3.56	-3.120	
		6995	-10.049	-9.265		3.56	-3.961	
	U-NII Band 7	7115	-10.241	-9.557	N/A	3.56	-12.554	
		5965	-10.399	-10.242		5.06	-2.060	
		6165	-10.685	-9.743		5.06	-2.697	
	U-NII Band 8	6405	-11.049	-10.366	N/A	5.06	-1.936	
		6445	-11.310	-10.728		2.12	-4.940	
		6485	-10.818	-10.117		2.12	-4.698	
802.11be-EHT80	U-NII Band 5	6525	-11.236	-10.729	N/A	3.24	-3.389	-1dBm/MHz
		6685	-10.718	-10.221		3.24	-3.635	
		6845	-10.646	-10.155	N/A	3.24	-4.069	
	U-NII Band 6	6885	-10.636	-9.806		3.56	-3.618	
		7005	-10.500	-9.373	N/A	3.56	-4.124	
		7085	-10.479	-9.572		3.56	-4.439	
	U-NII Band 7	5985	-10.433	-10.121		5.06	-2.383	
		6145	-10.835	-10.398	N/A	5.06	-2.905	
		6385	-11.037	-10.290		5.06	-2.392	
	U-NII Band 8	6465	-11.667	-10.631		2.12	-5.263	
		6545	-10.754	-9.923	N/A	2.12	-5.071	
		6625	-10.814	-10.415		3.24	-3.650	
802.11be-EHT160	U-NII Band 5	6705	-10.664	-10.335	N/A	3.24	-3.752	-1dBm/MHz
		6785	-9.882	-9.790		3.24	-4.024	
		6865	-10.004	-9.736		3.56	-4.041	
	U-NII Band 6	6945	-10.206	-9.771	N/A	3.56	-4.077	
		7025	-10.654	-9.870		3.56	-4.548	
	U-NII Band 7	6105	-10.255	-9.532	N/A	5.06	-1.808	
		6265	-10.337	-9.703		5.06	-1.938	
		6425	-9.987	-9.547		5.06	-1.291	
802.11be-EHT320	U-NII Band 5	6585	-9.467	-9.329	N/A	2.12	-4.267	-1dBm/MHz
		6745	-9.719	-9.301		3.24	-3.255	
		6905	-11.153	-10.604		3.56	-4.300	

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.

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● OFDMA Modulation

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 6	Total Power Spectral Density (dBm/1MHz) (EIRP) Note 4	Limit
					Aux	Main				
26T	4	802.11ax-HE20	8	6875	-12.015	-11.589	N/A	3.56	-5.226	-1dBm/MHz
52T	37	802.11ax-HE20	5	6175	-12.022	-10.509	N/A	5.06	-3.130	-1dBm/MHz
106T	54	802.11ax-HE40	5	6405	-10.637	-10.265	N/A	5.06	-2.377	-1dBm/MHz
242T	S62	802.11ax-HE160	5	6025	-10.348	-10.130	N/A	5.06	-2.167	-1dBm/MHz
484T	S66	802.11ax-HE160	5	6025	-10.629	-10.603	N/A	5.06	-2.546	-1dBm/MHz
996T	67	802.11ax-HE80	5	5985	-10.927	-10.533	N/A	5.06	-2.655	-1dBm/MHz
26T	T19	802.11be-EHT320	5	6425	-10.434	-11.223	N/A	5.06	-2.740	-1dBm/MHz
52T	44	802.11be-EHT40	5	6405	-10.364	-9.797	N/A	5.06	-2.001	-1dBm/MHz
106T	W60	802.11be-EHT320	5	6425	-10.055	-10.019	N/A	5.06	-1.967	-1dBm/MHz
242T	W62	802.11be-EHT320	5	6425	-9.962	-9.591	N/A	5.06	-1.702	-1dBm/MHz
484T	W66	802.11be-EHT320	5	6425	-9.665	-9.658	N/A	5.06	-1.591	-1dBm/MHz
996T	W67	802.11be-EHT320	5	6425	-9.935	-9.671	N/A	5.06	-1.731	-1dBm/MHz
996Tx2	W68	802.11be-EHT320	5	6425	-9.605	-9.756	N/A	5.06	-1.610	-1dBm/MHz
26T+52T	72	802.11be-EHT20	5	6415	-10.093	-9.742	N/A	5.06	-1.844	-1dBm/MHz
26T+52T	75	802.11be-EHT40	5	6405	-9.876	-9.935	N/A	5.06	-1.835	-1dBm/MHz
26T+106T	83	802.11be-EHT20	5	6415	-9.704	-9.825	N/A	5.06	-1.694	-1dBm/MHz
26T+106T	84	802.11be-EHT40	5	6405	-10.210	-9.920	N/A	5.06	-1.992	-1dBm/MHz
484T+242T	91	802.11be-EHT80	5	5985	-12.543	-11.493	N/A	5.06	-3.916	-1dBm/MHz
996T+484T	S95	802.11be-EHT160	5	6025	-10.334	-9.258	N/A	5.06	-1.692	-1dBm/MHz
996T+484T+242T	S99	802.11be-EHT160	5	6025	-9.819	-9.373	N/A	5.06	-1.520	-1dBm/MHz
996Tx2+484T	S101	802.11be-EHT320	5	6105	-10.048	-9.175	N/A	5.06	-1.519	-1dBm/MHz
996Tx3	104	802.11be-EHT320	5	6425	-9.804	-9.865	N/A	5.06	-1.764	-1dBm/MHz
996Tx3+484T	T106	802.11be-EHT320	5	6265	-11.121	-10.472	N/A	5.06	-2.714	-1dBm/MHz

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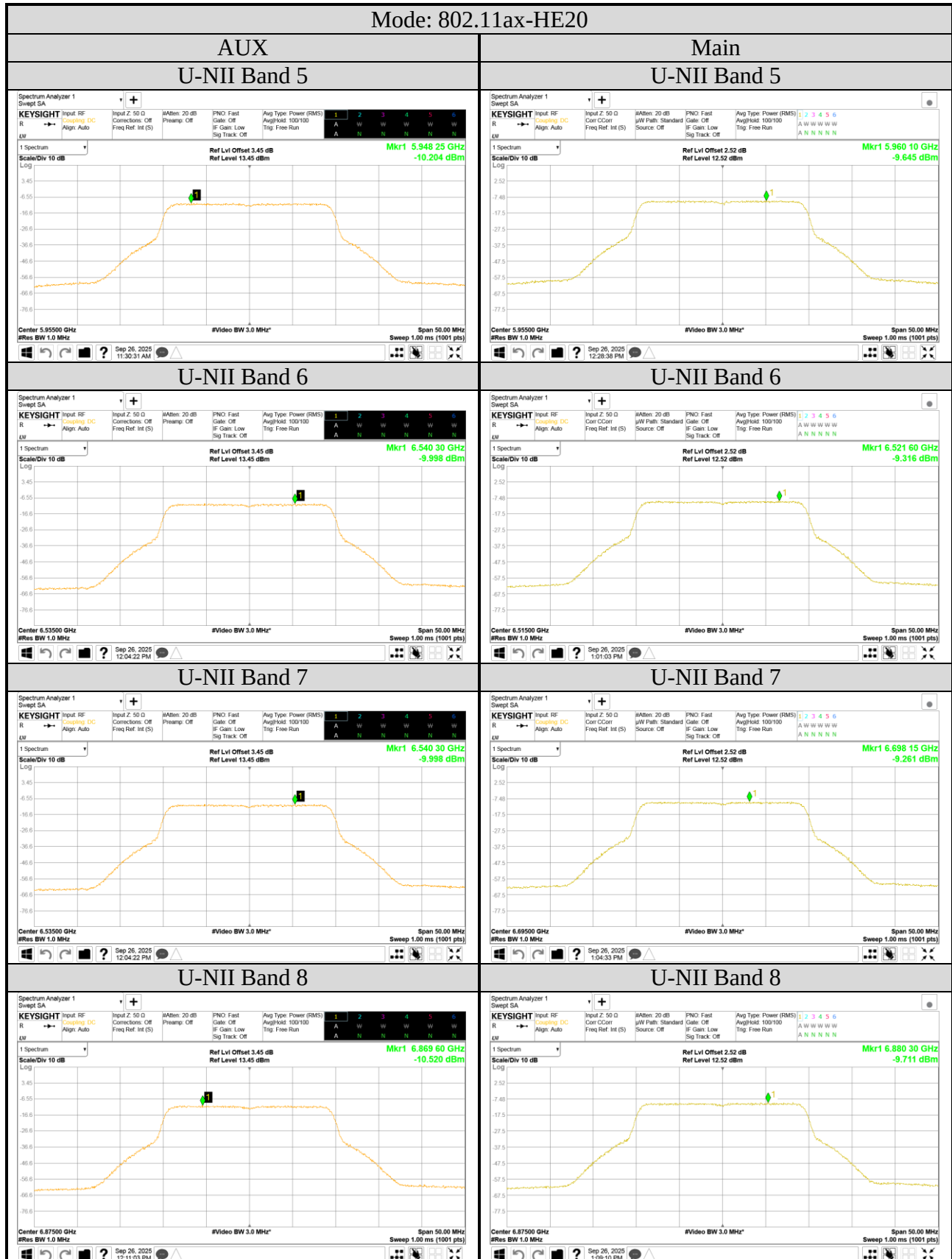
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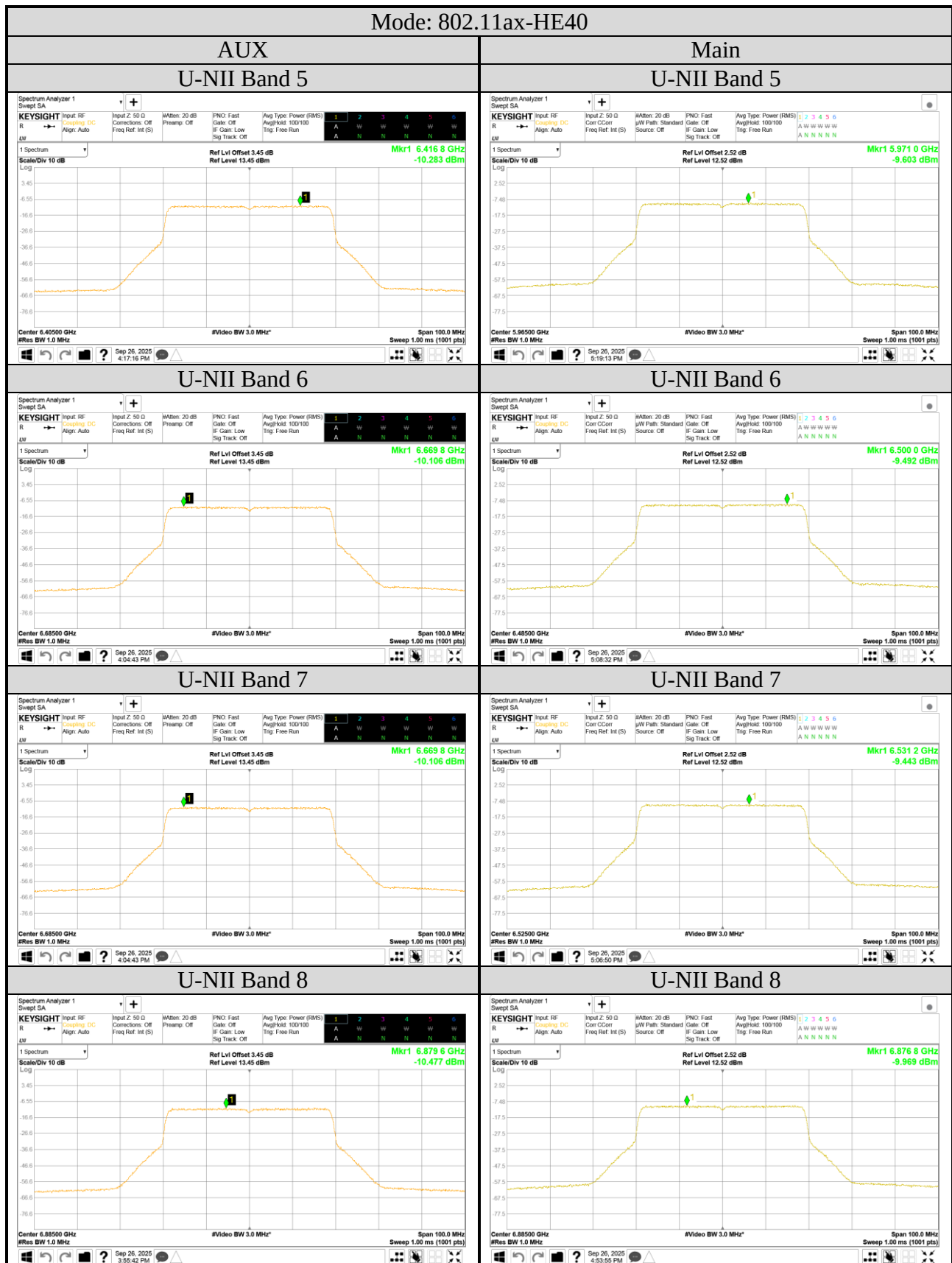
A.3.2 Measurement Plots

- OFDM Modulation



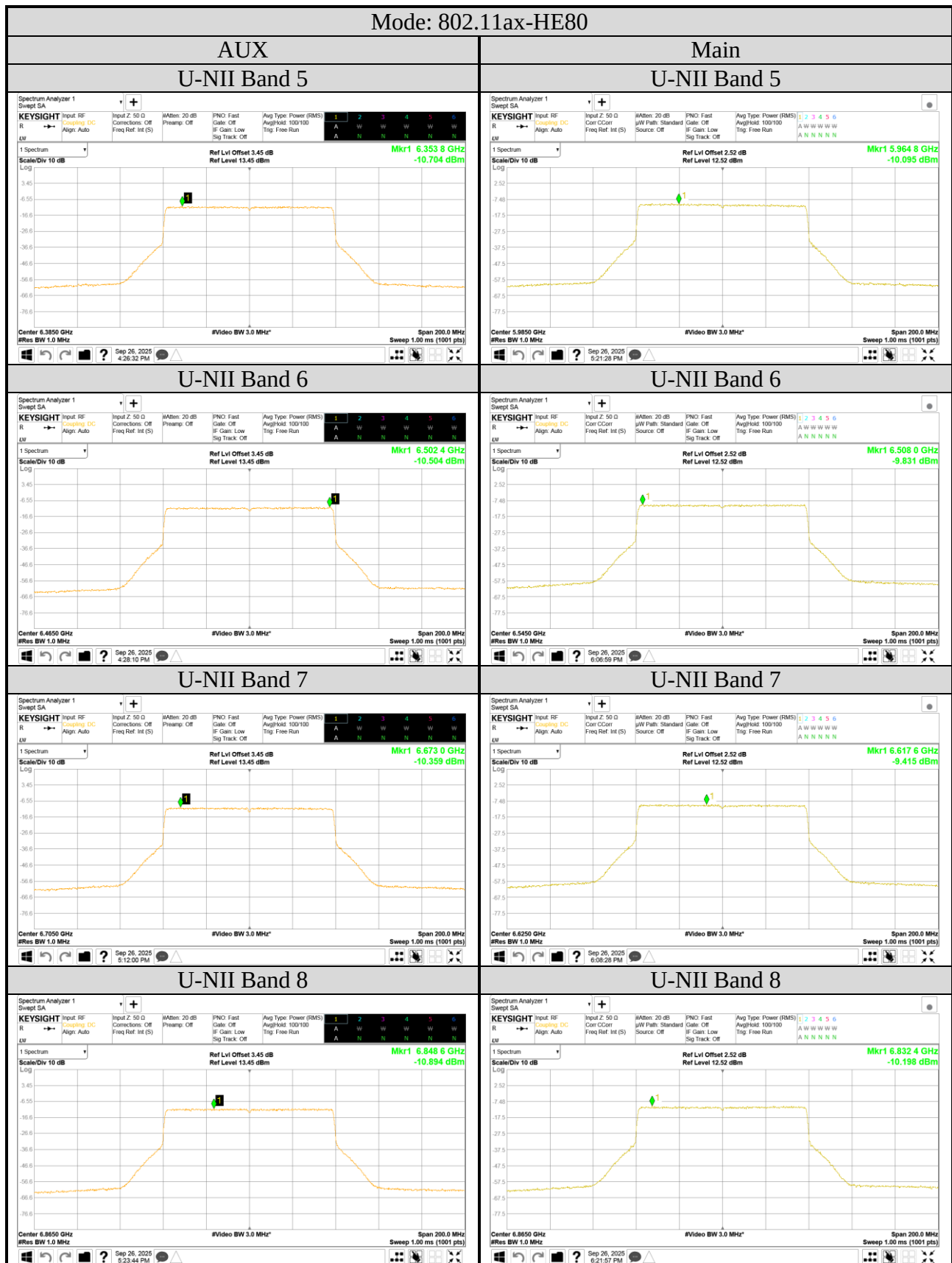
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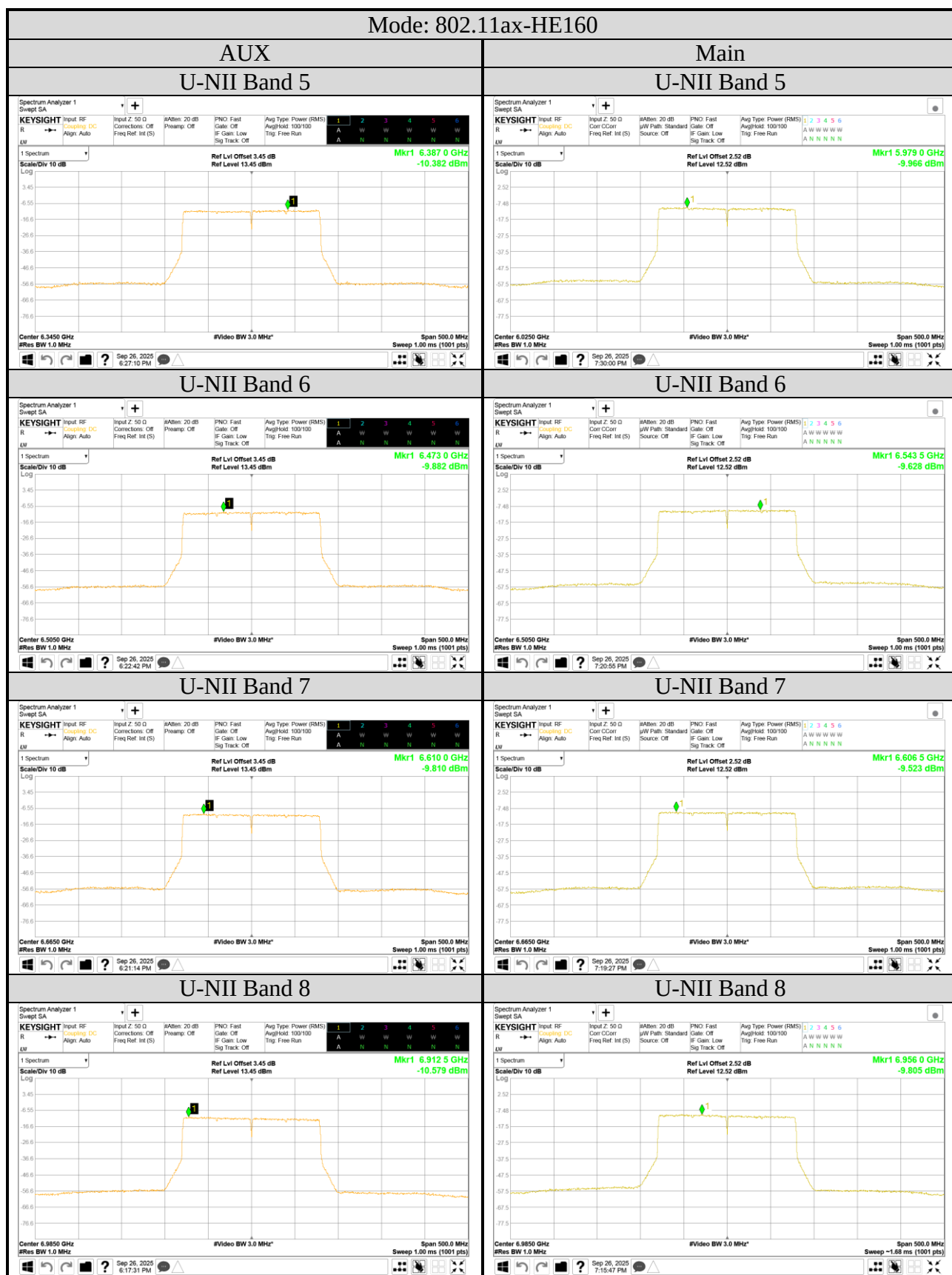
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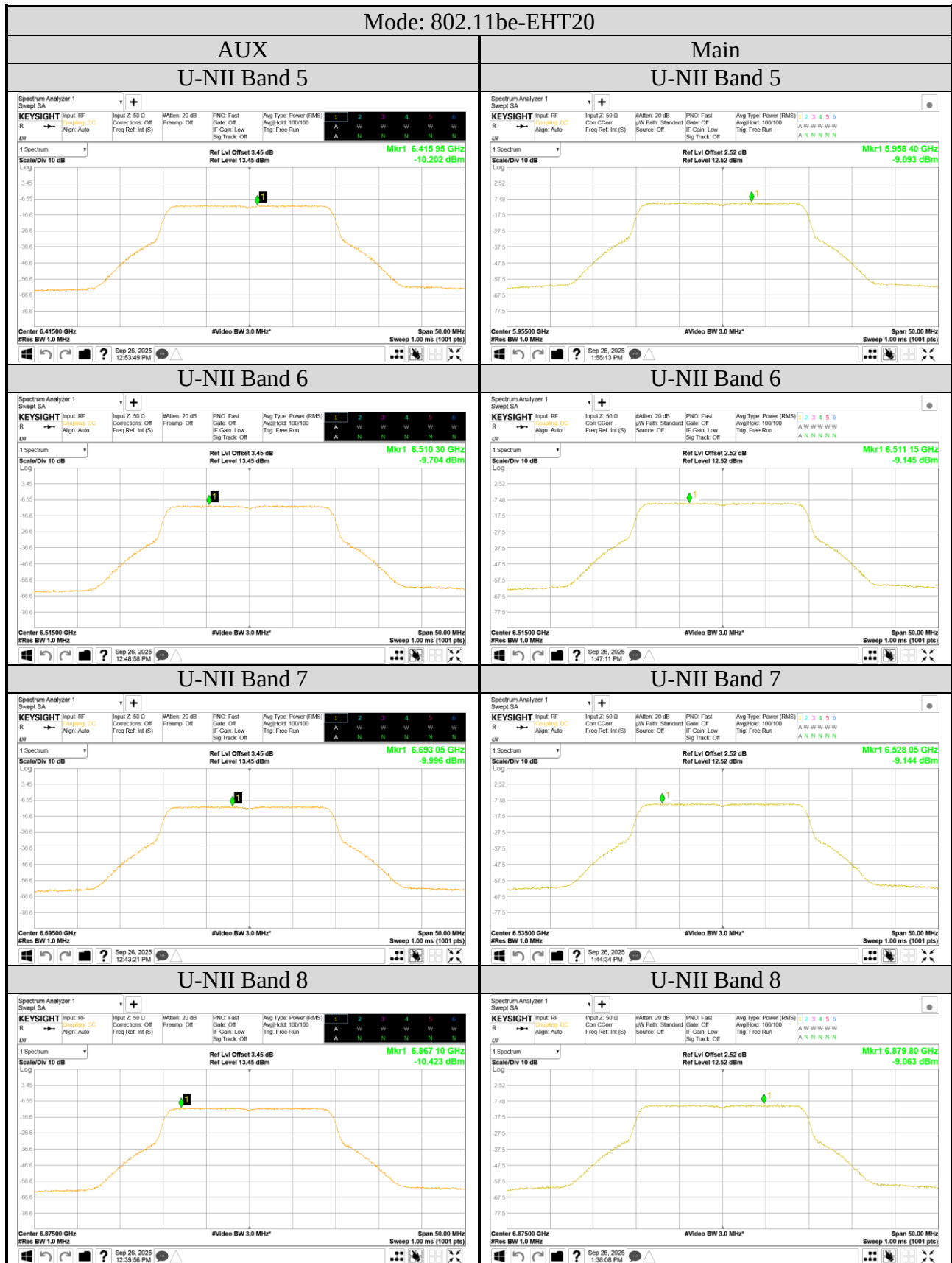
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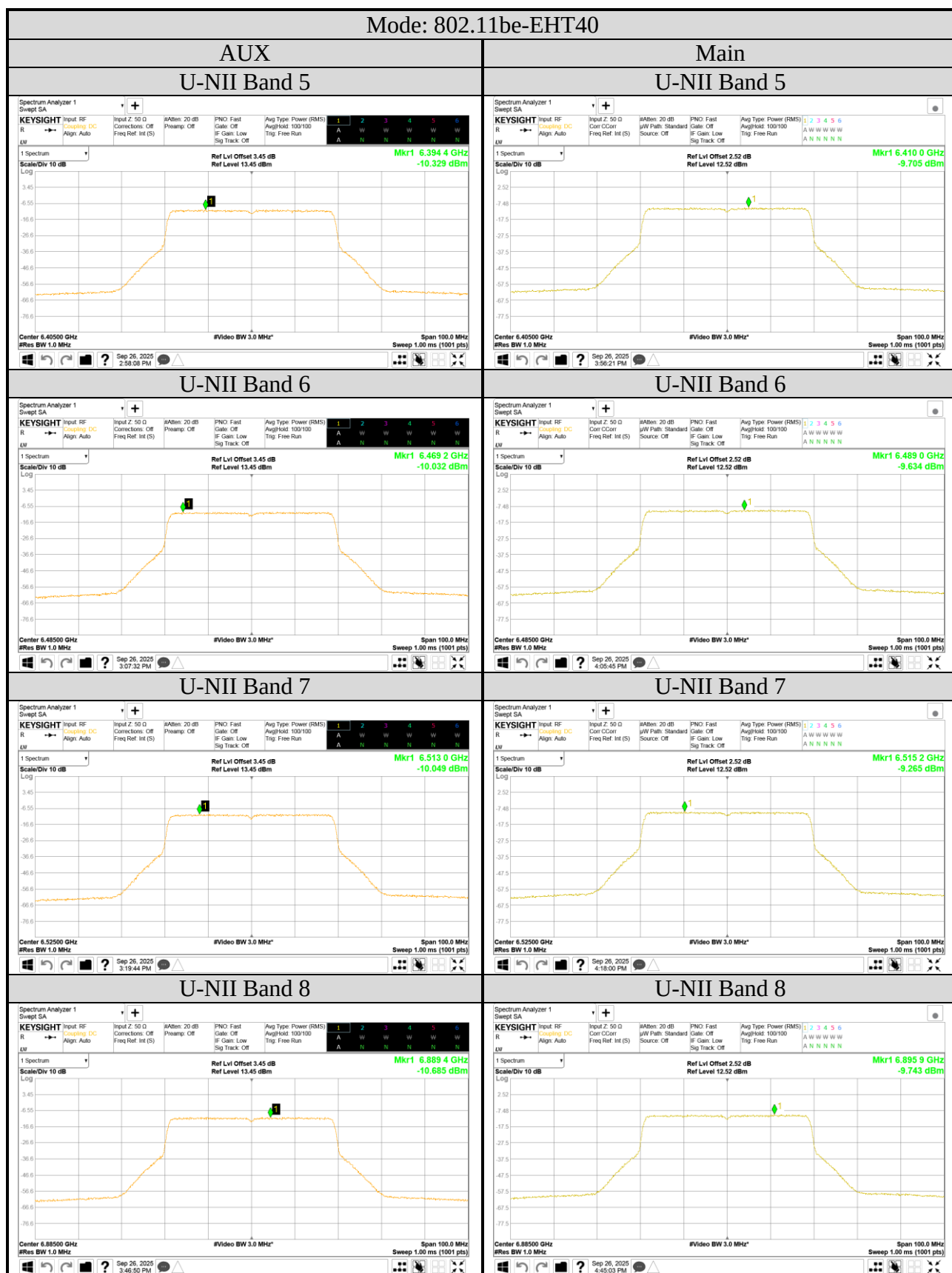


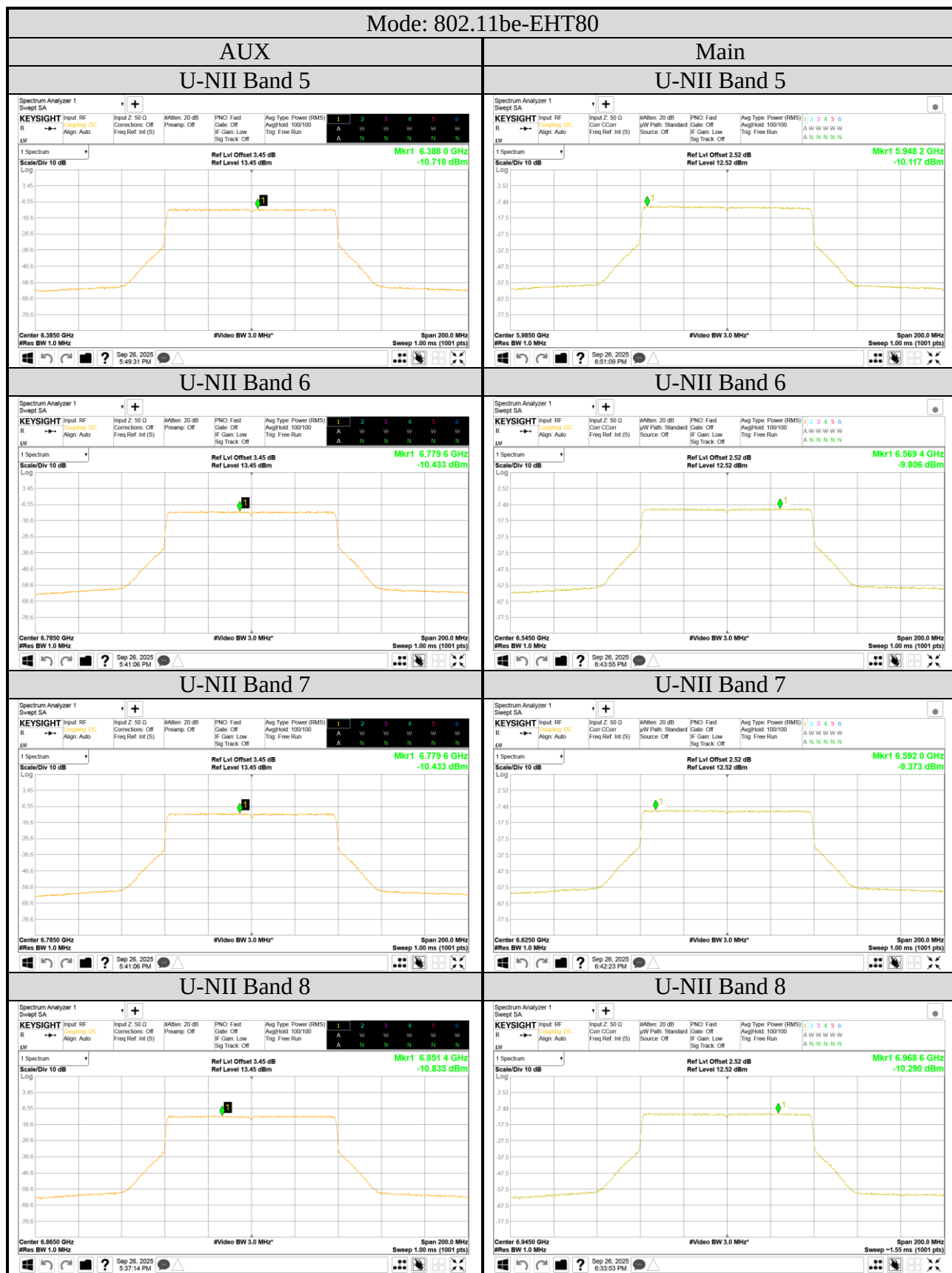


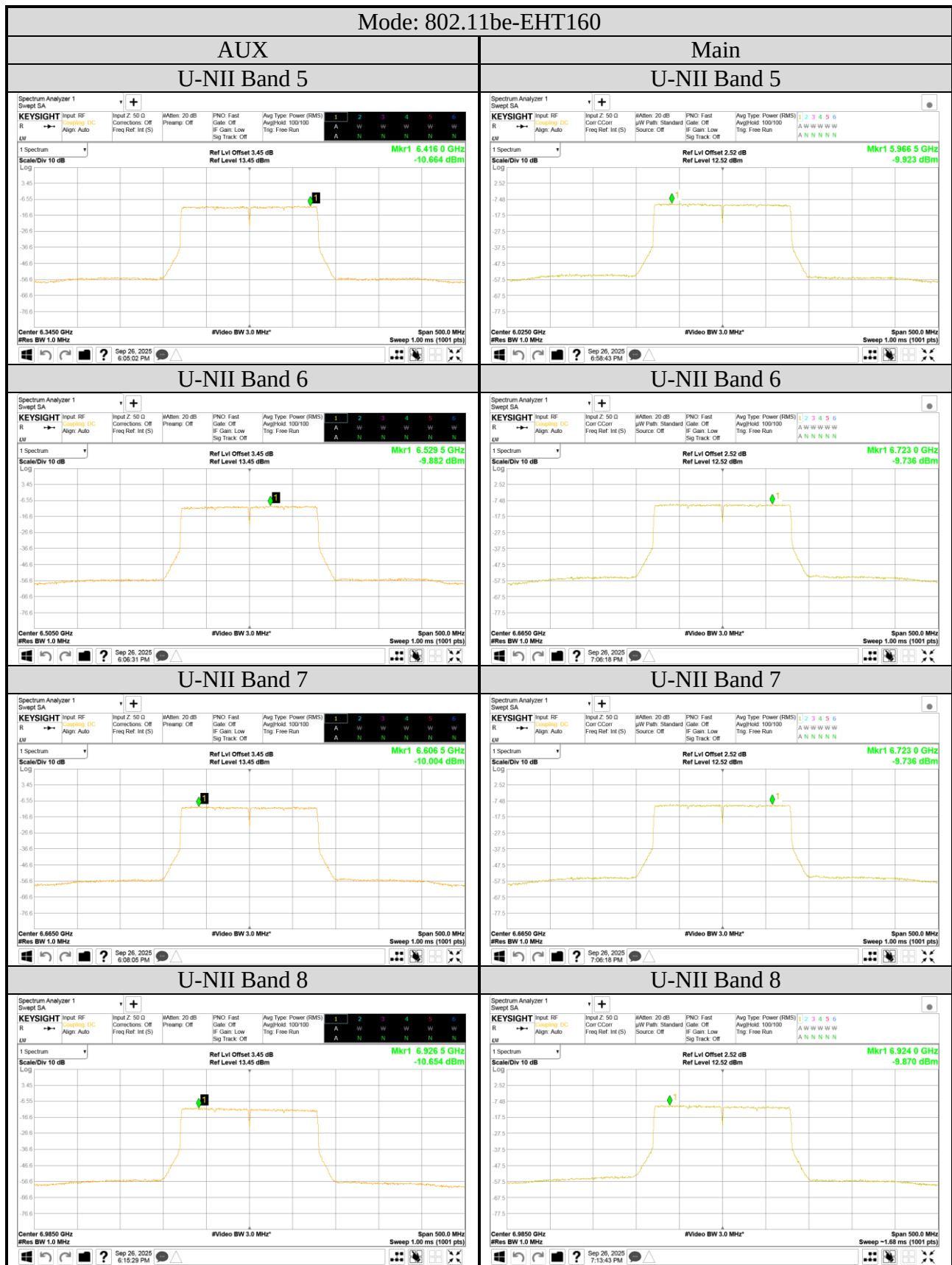
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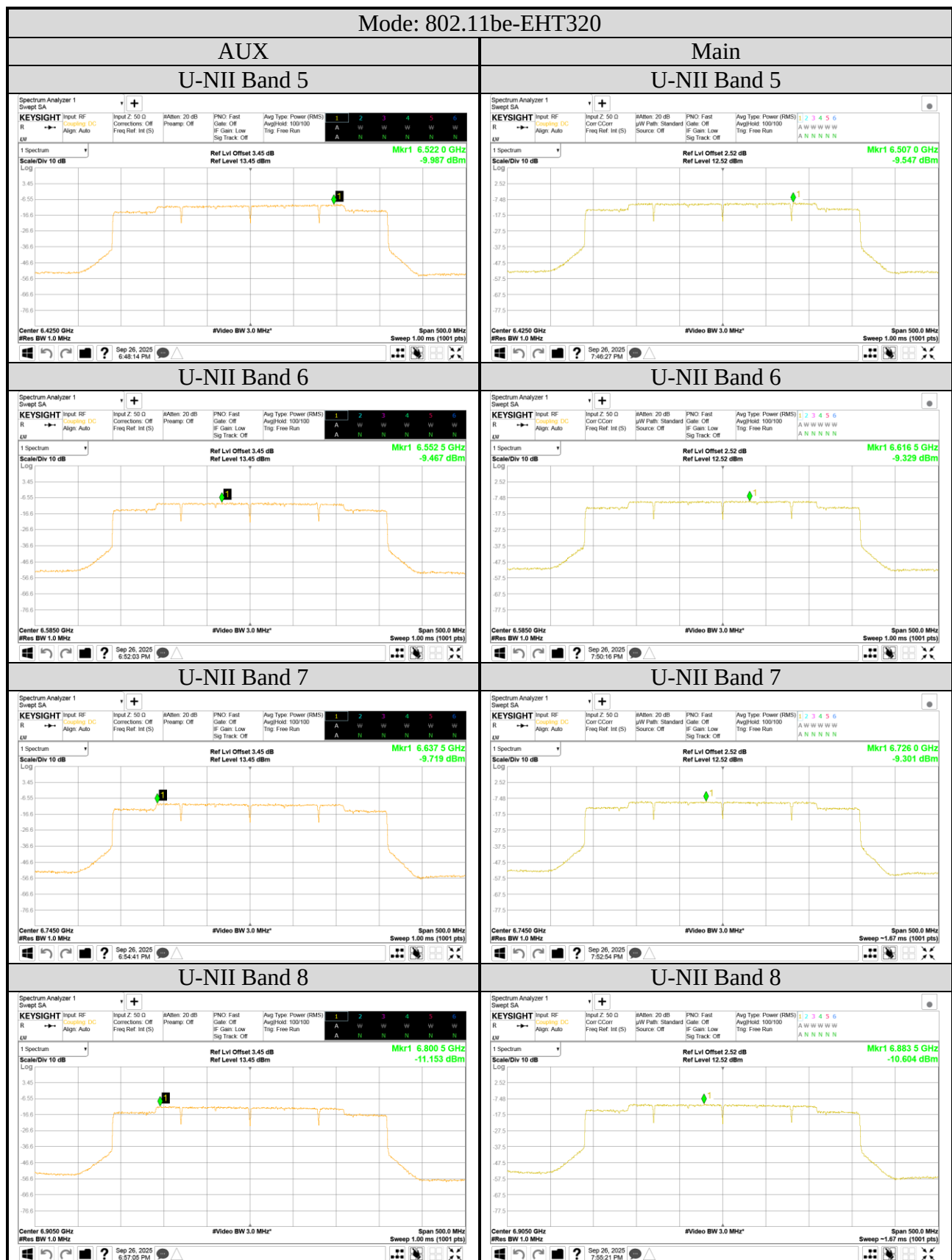
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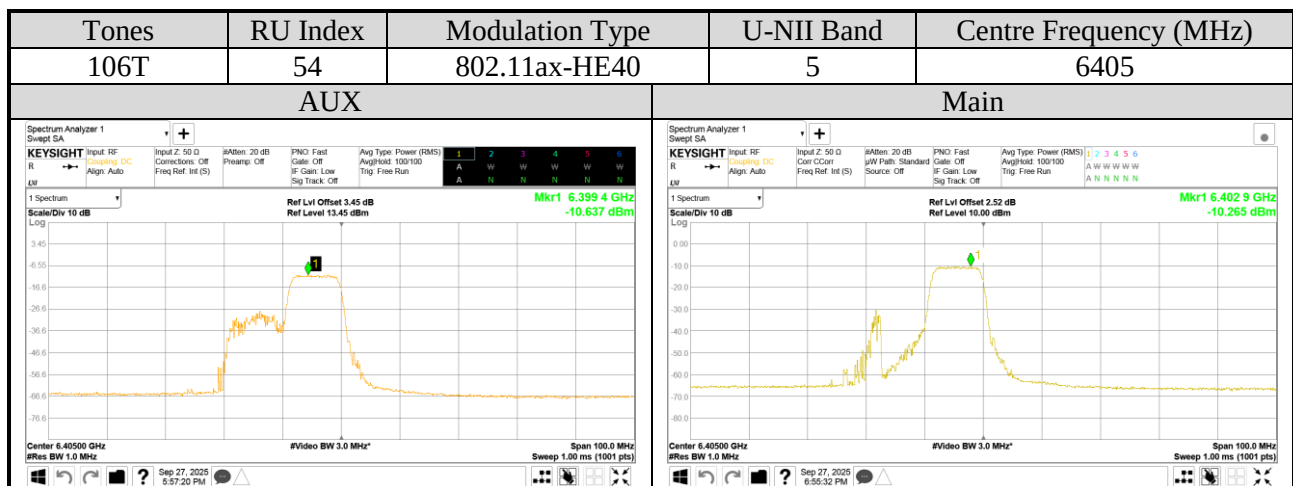
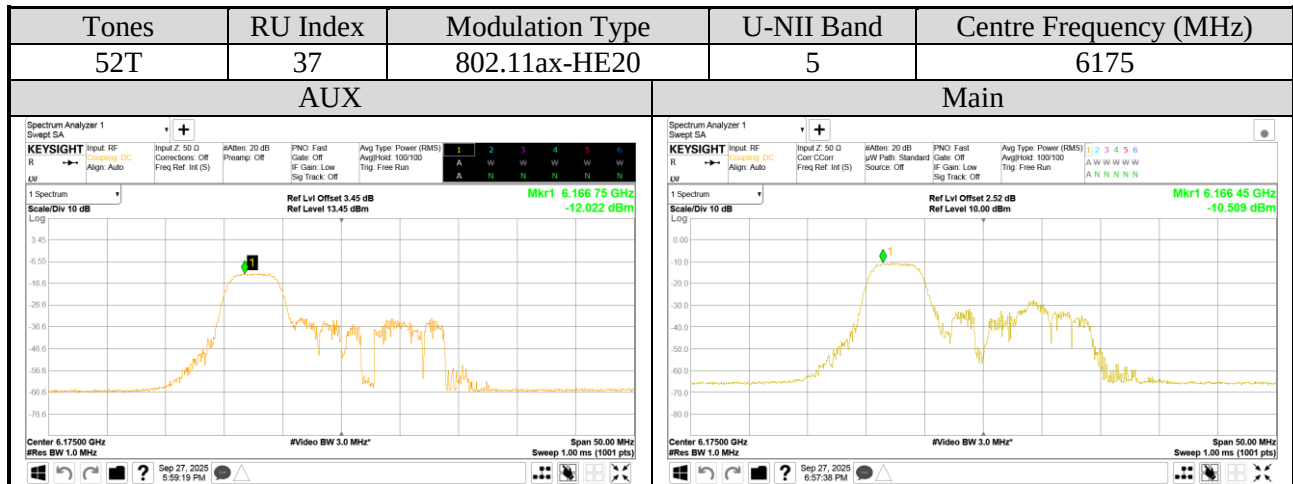
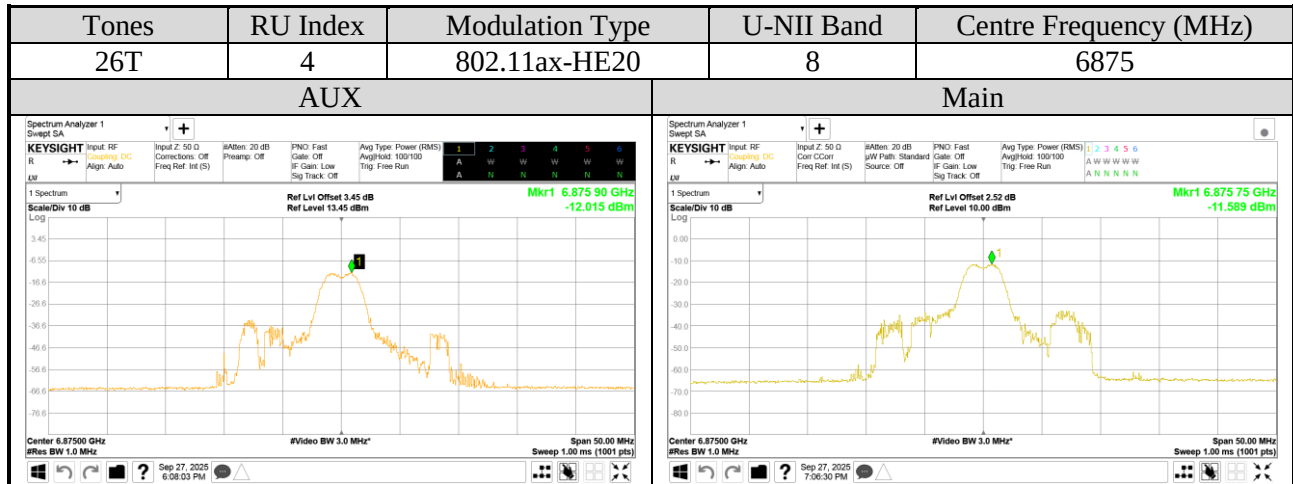


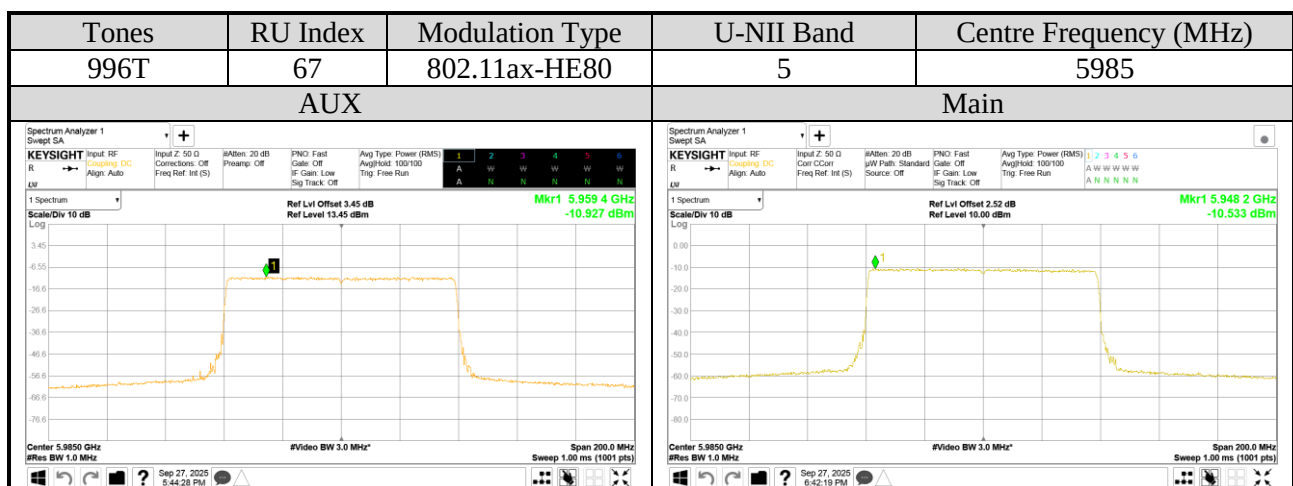
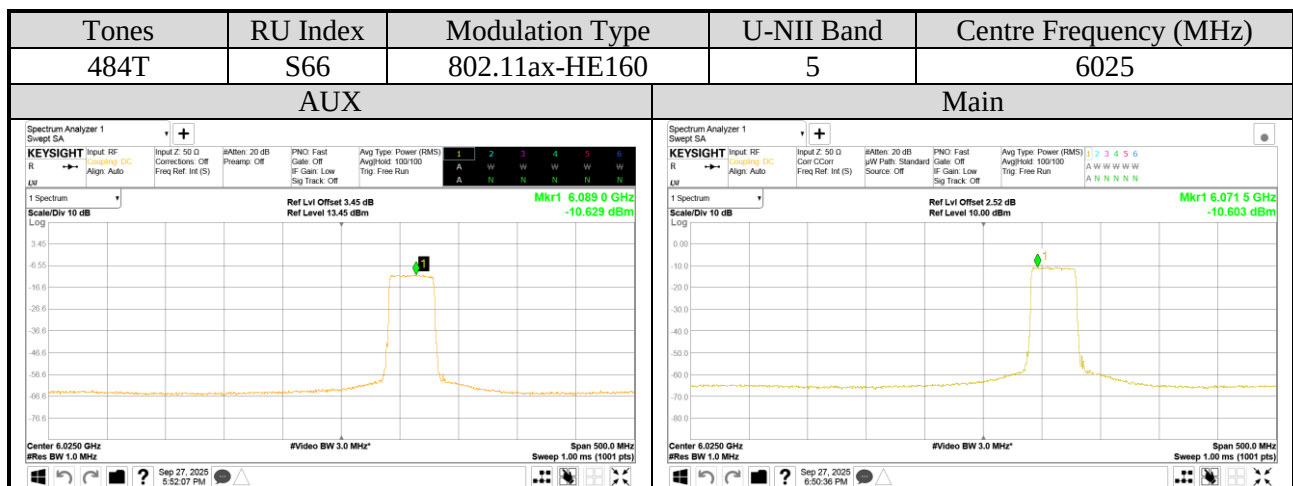
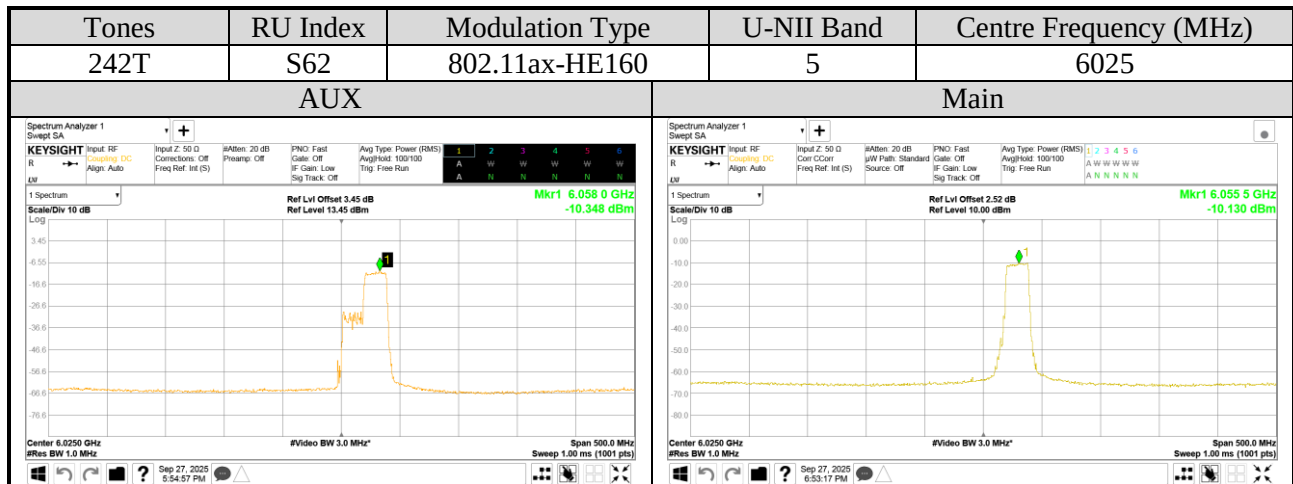


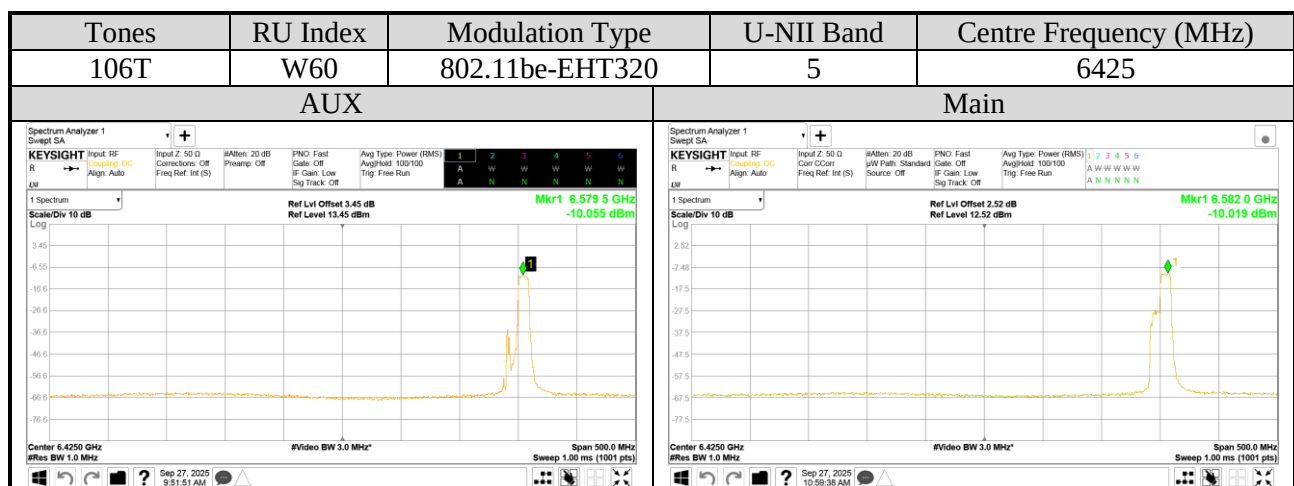
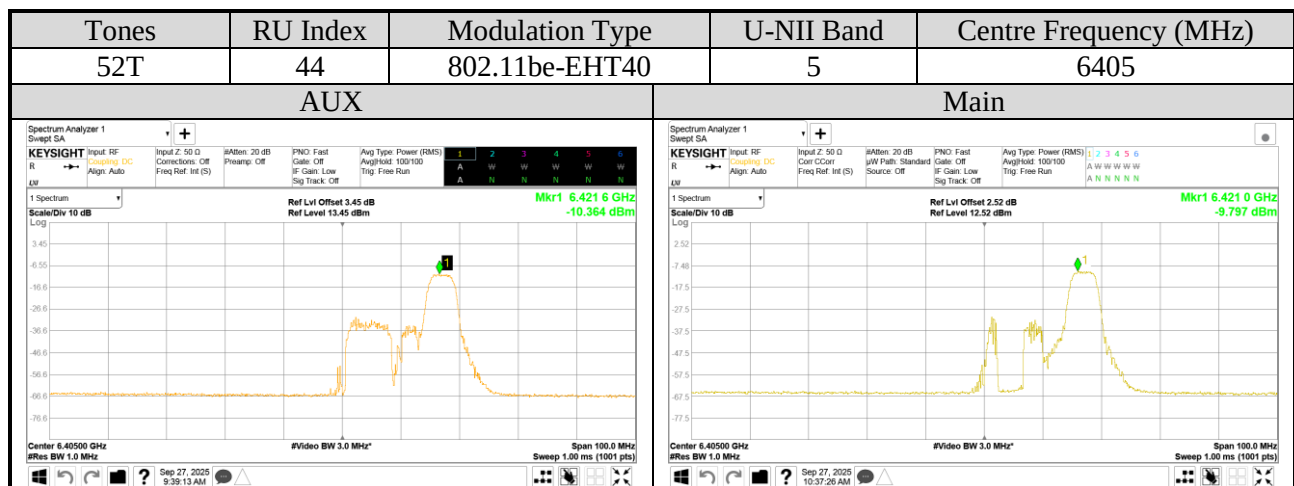
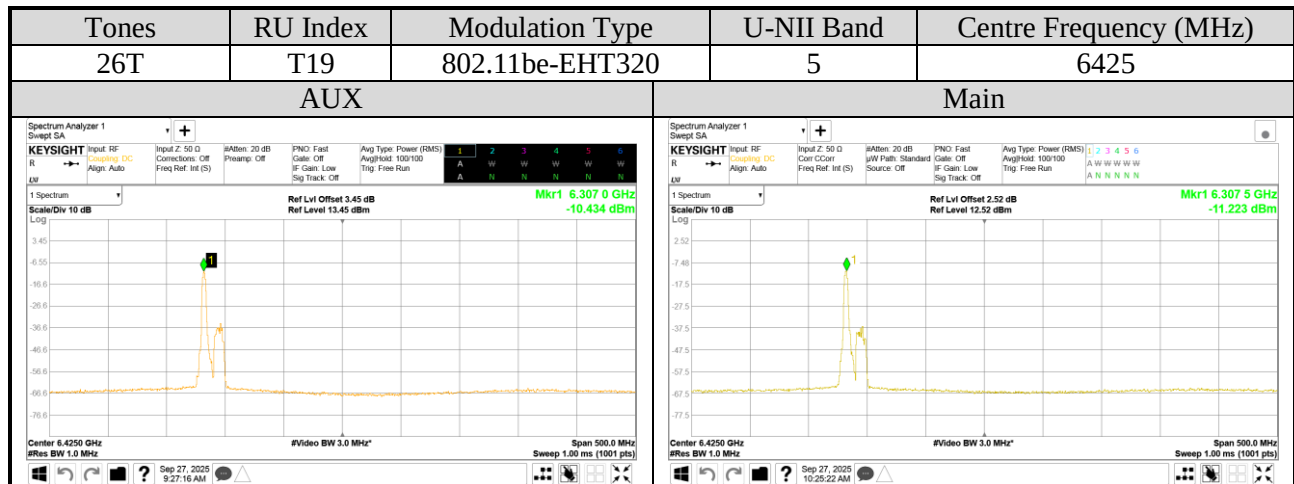
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● OFDMA Modulation

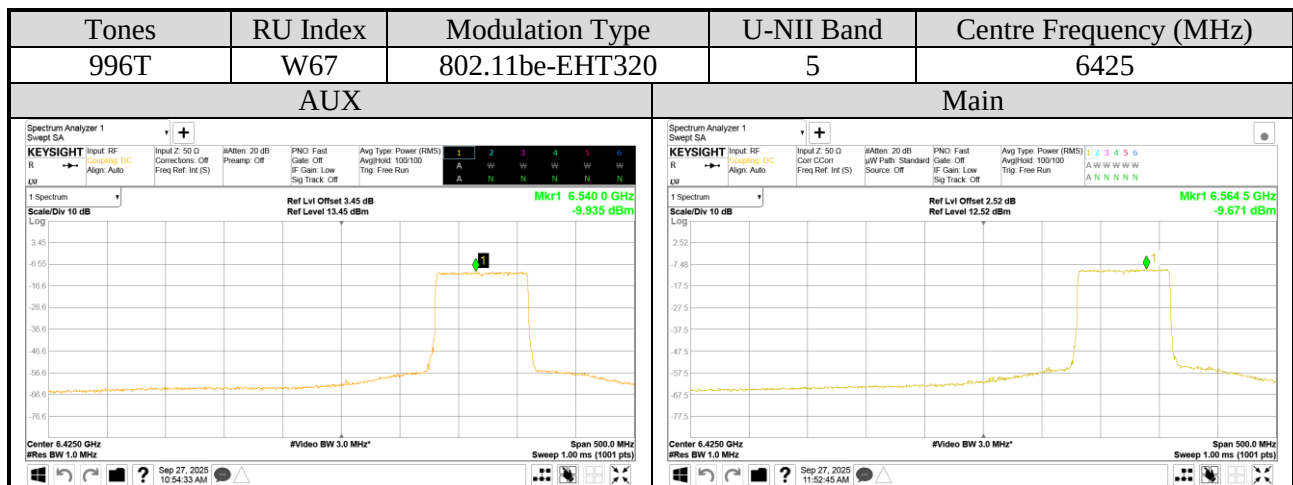
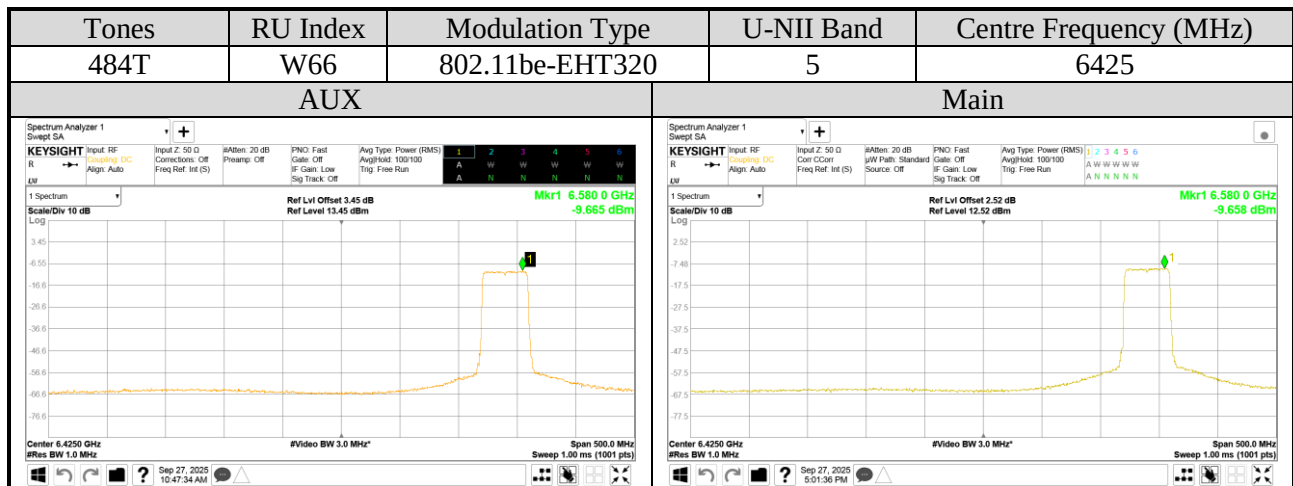
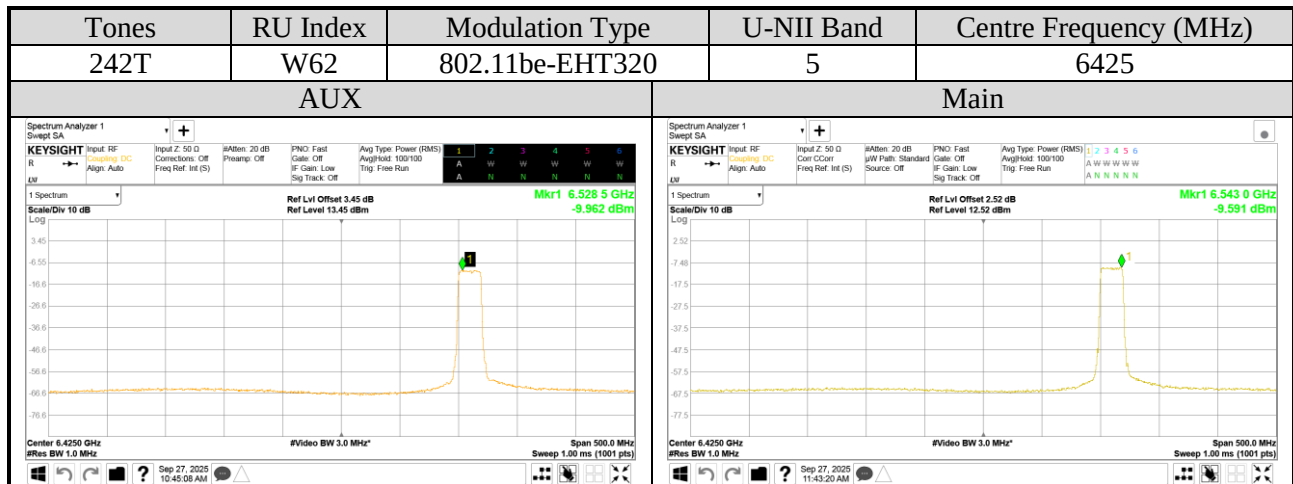


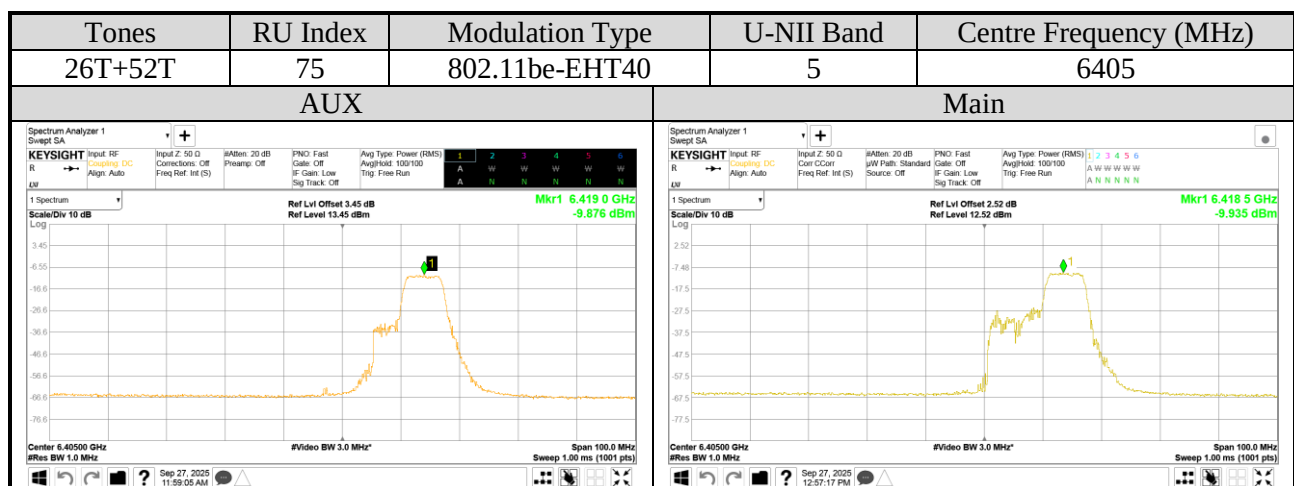
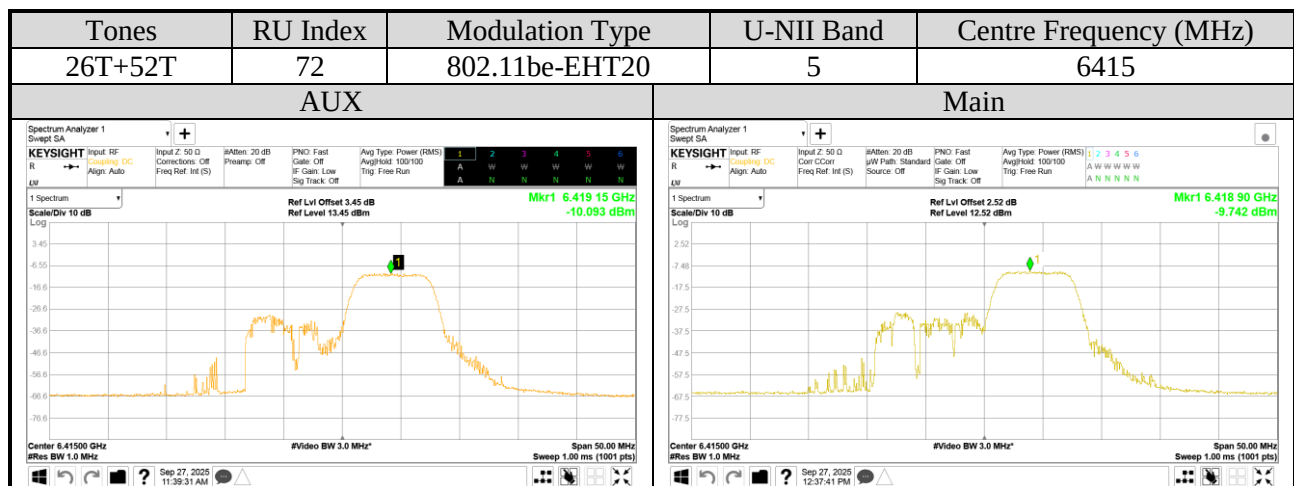
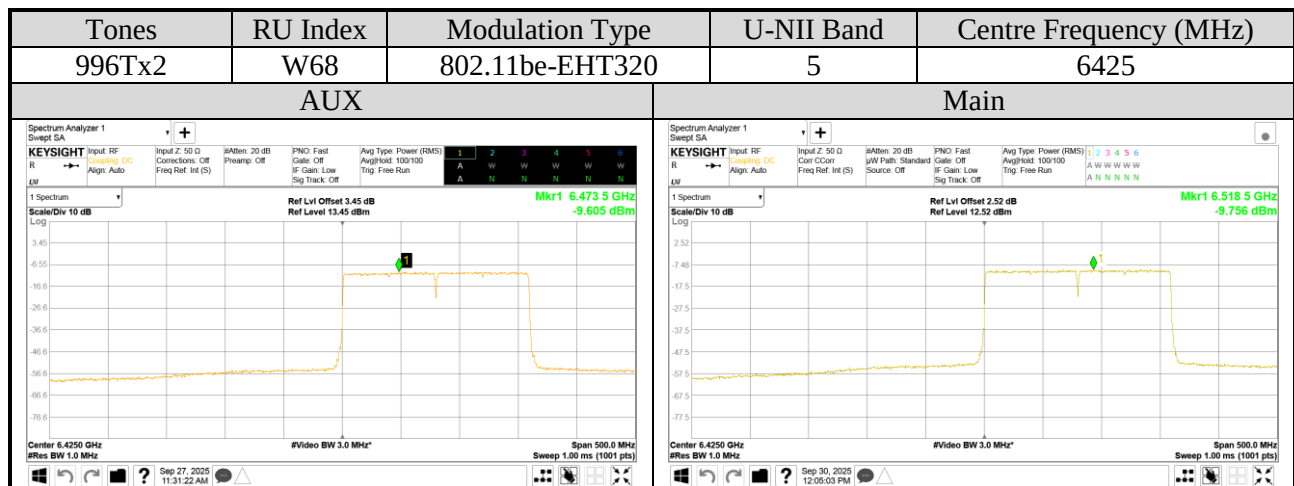


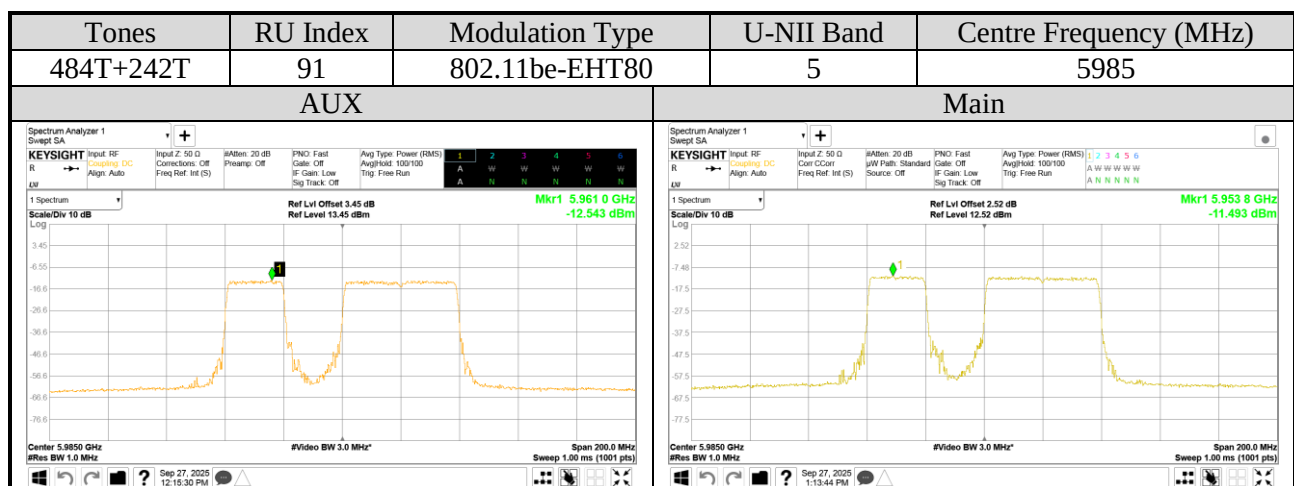
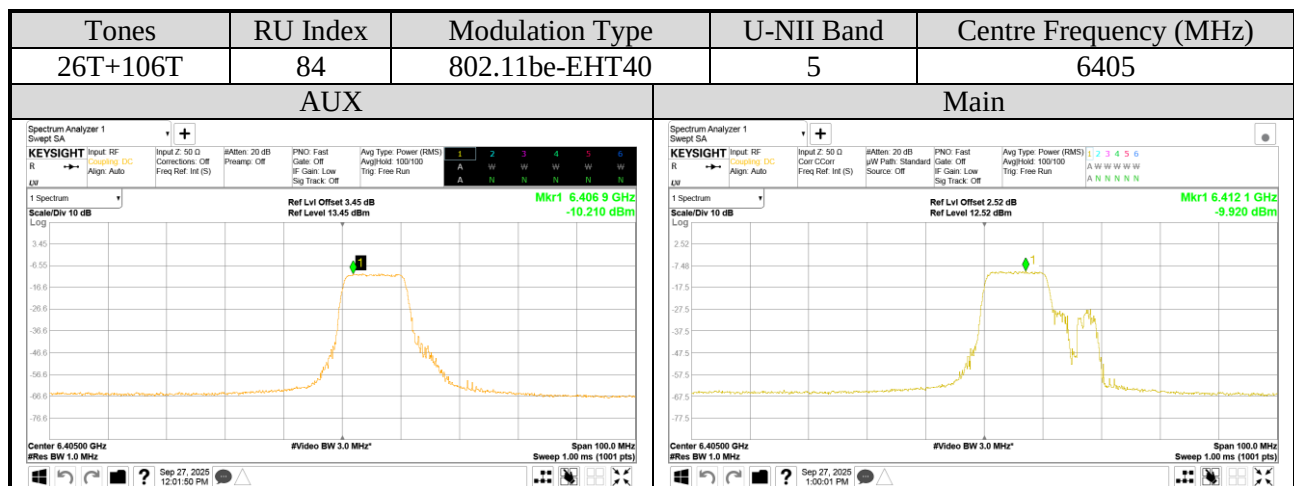
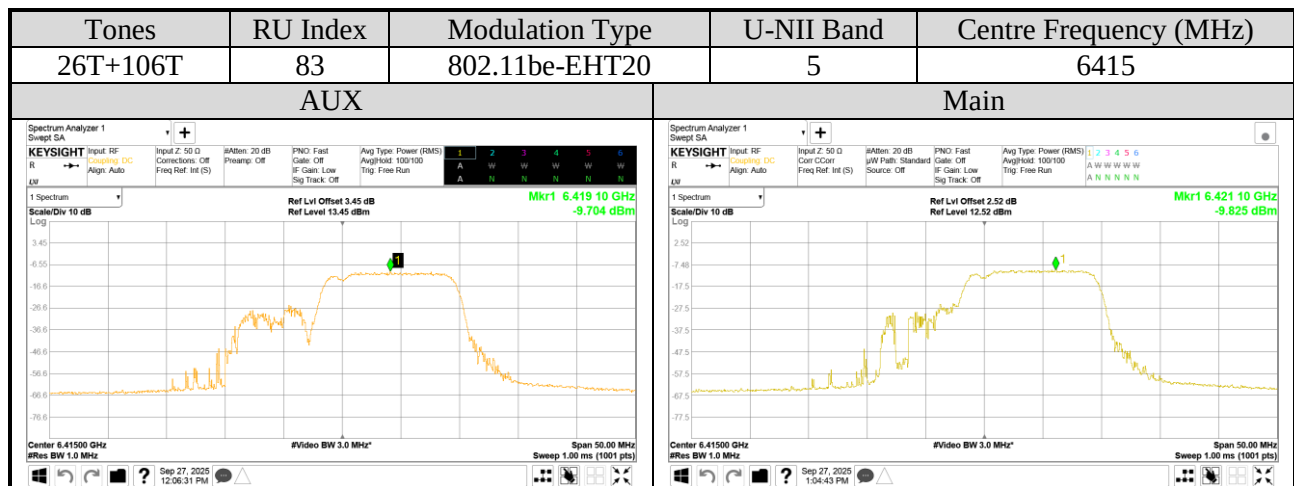


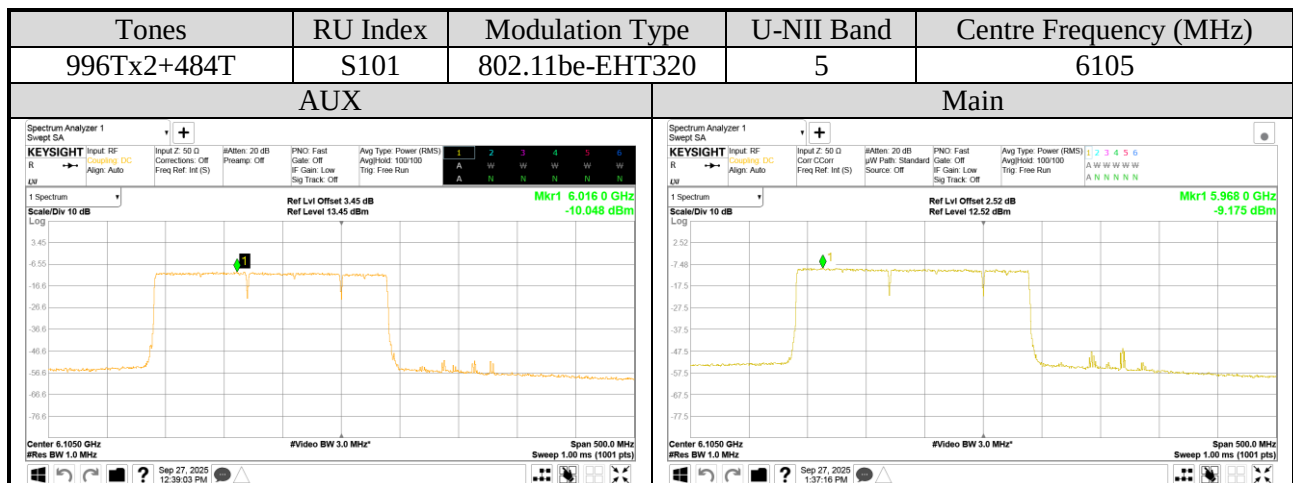
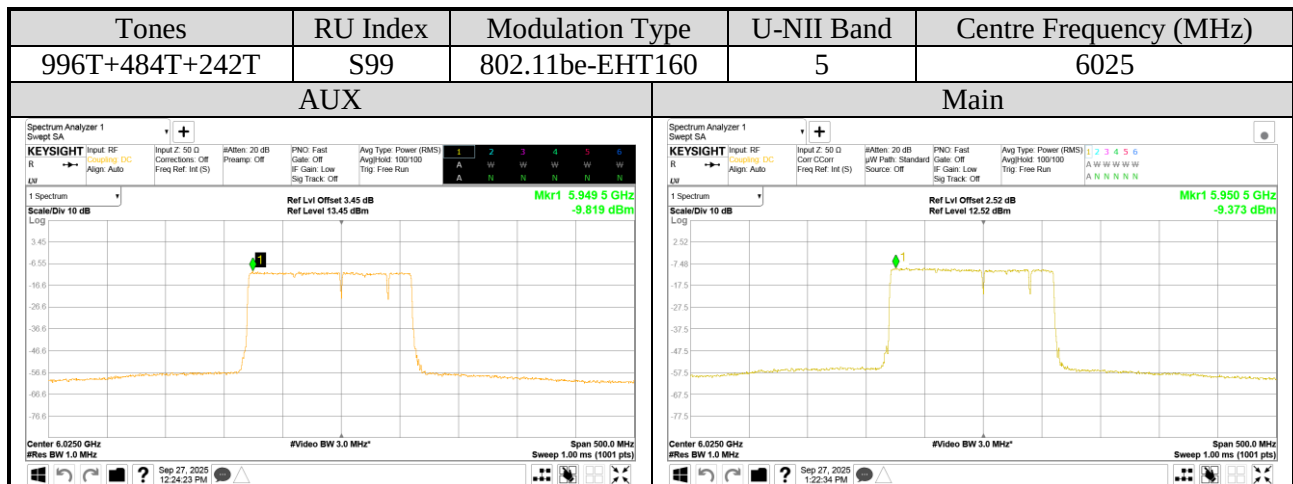
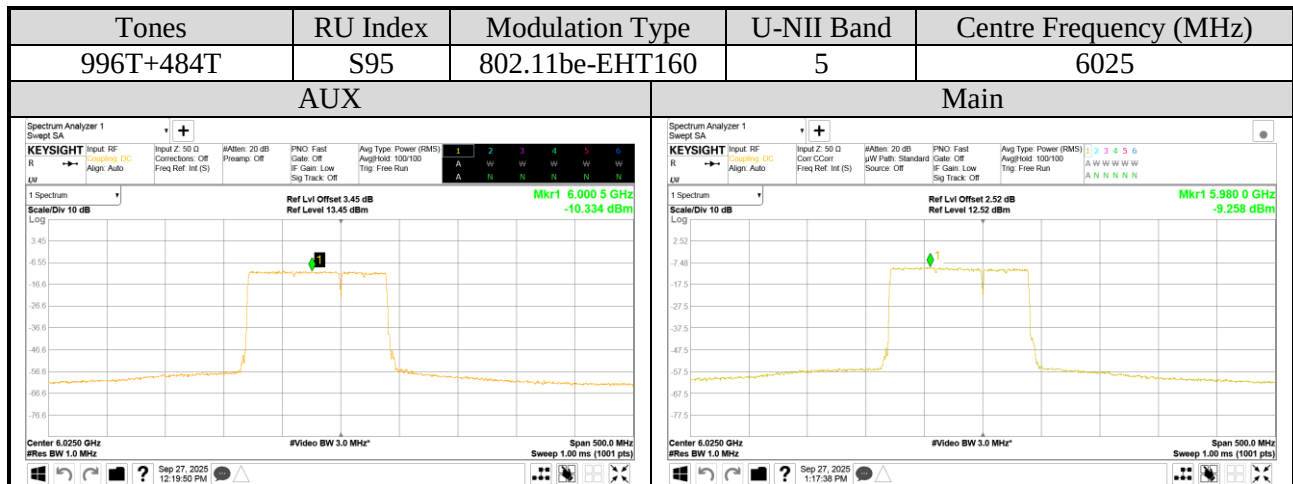
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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









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

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Fax: +886 2 26099303

