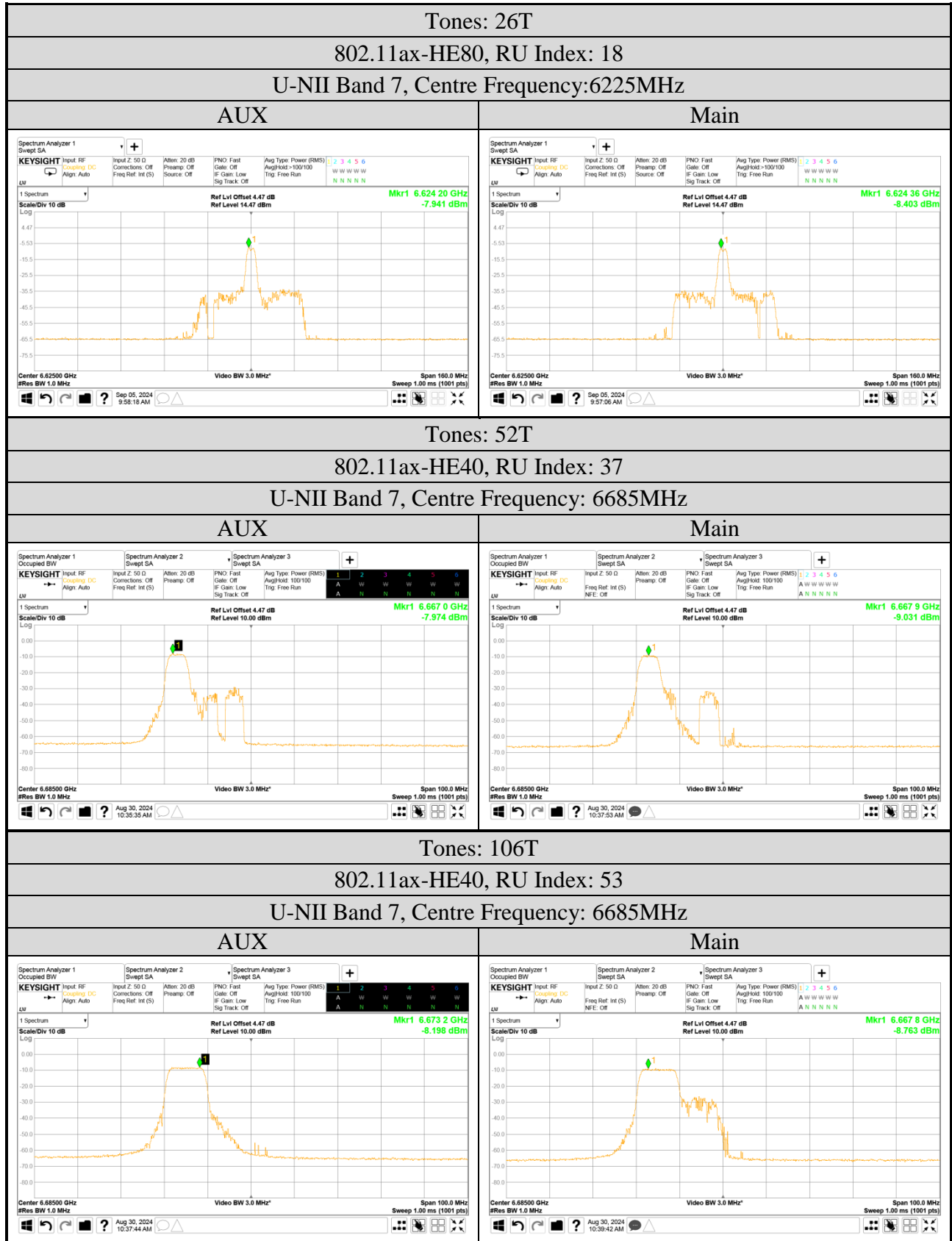
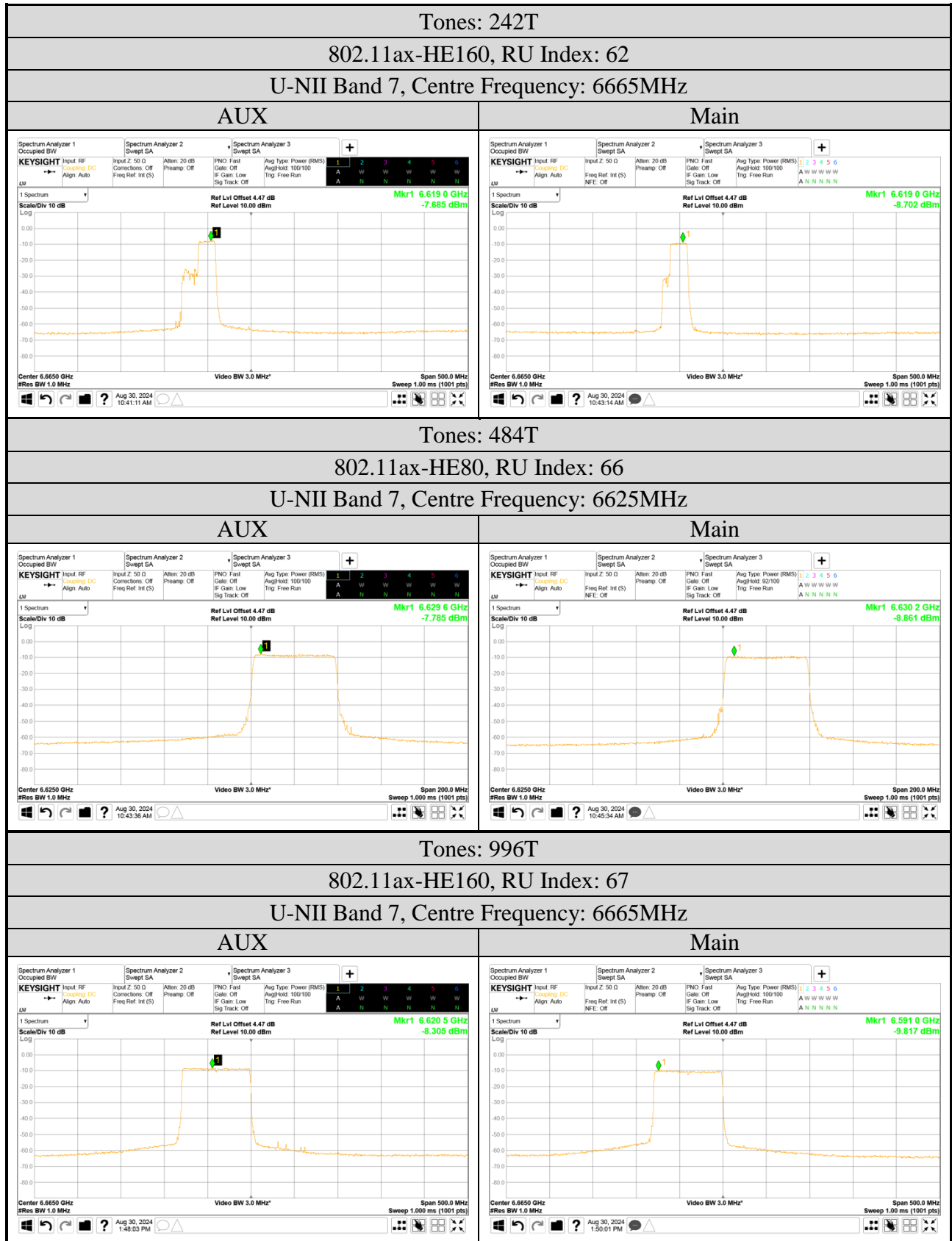
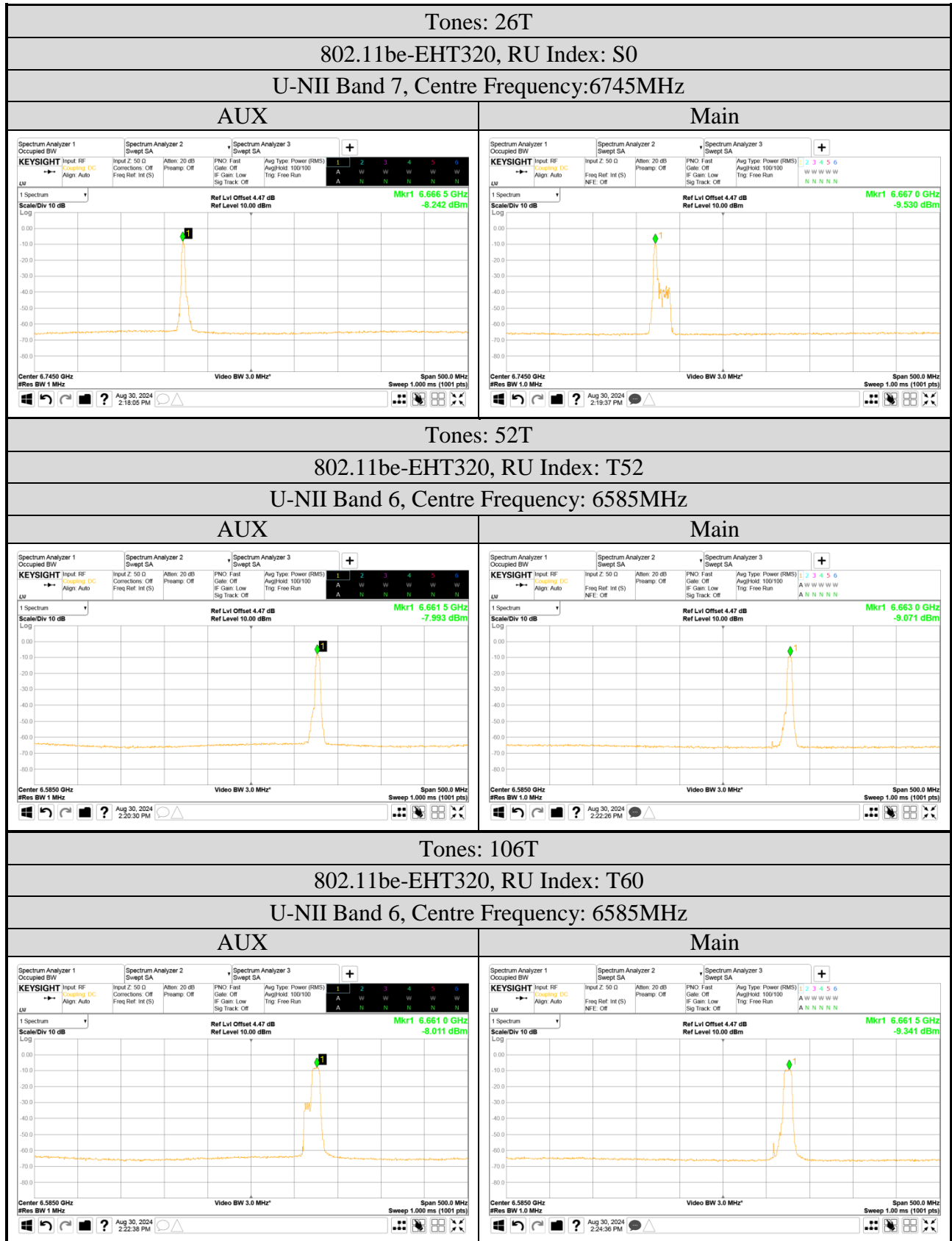
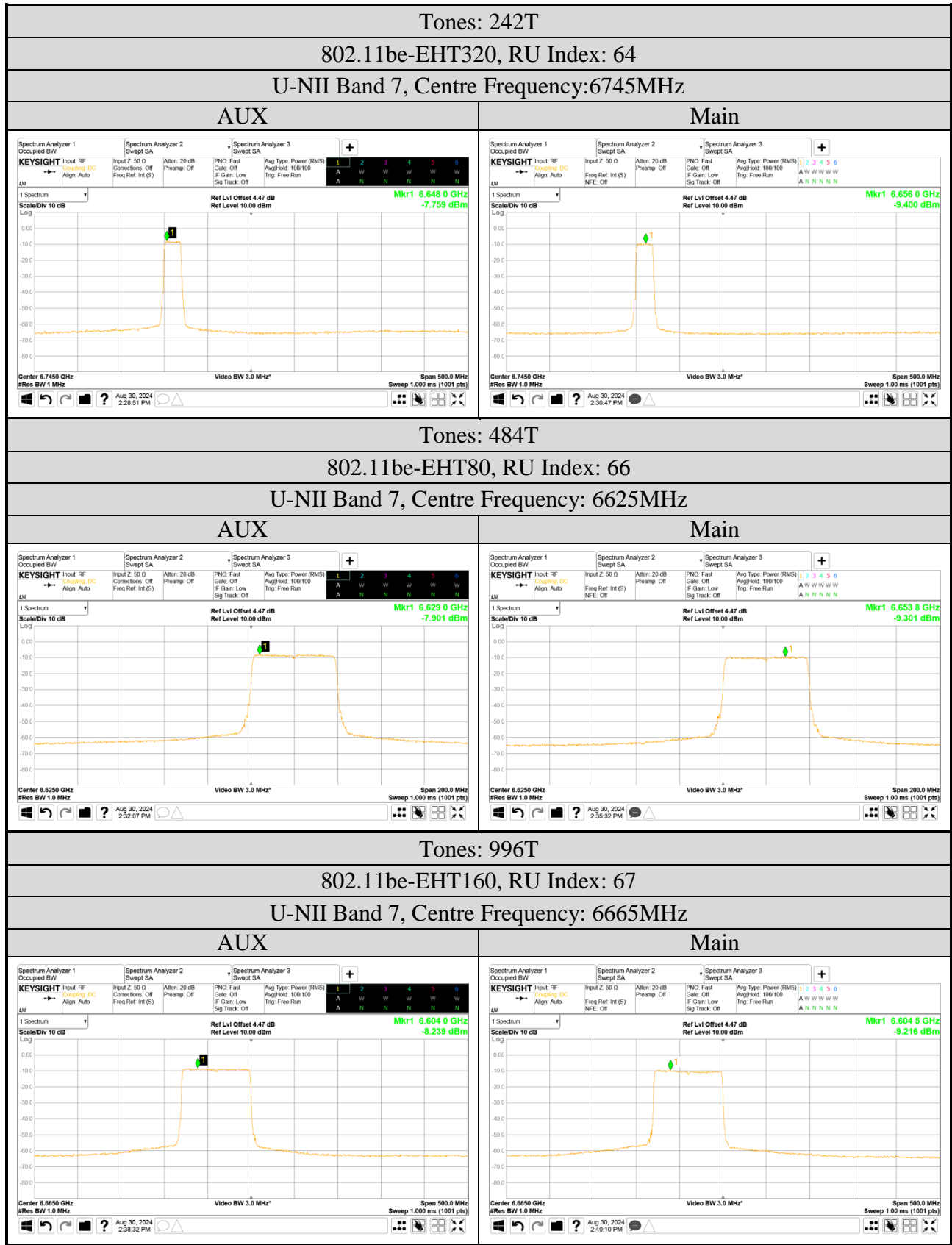


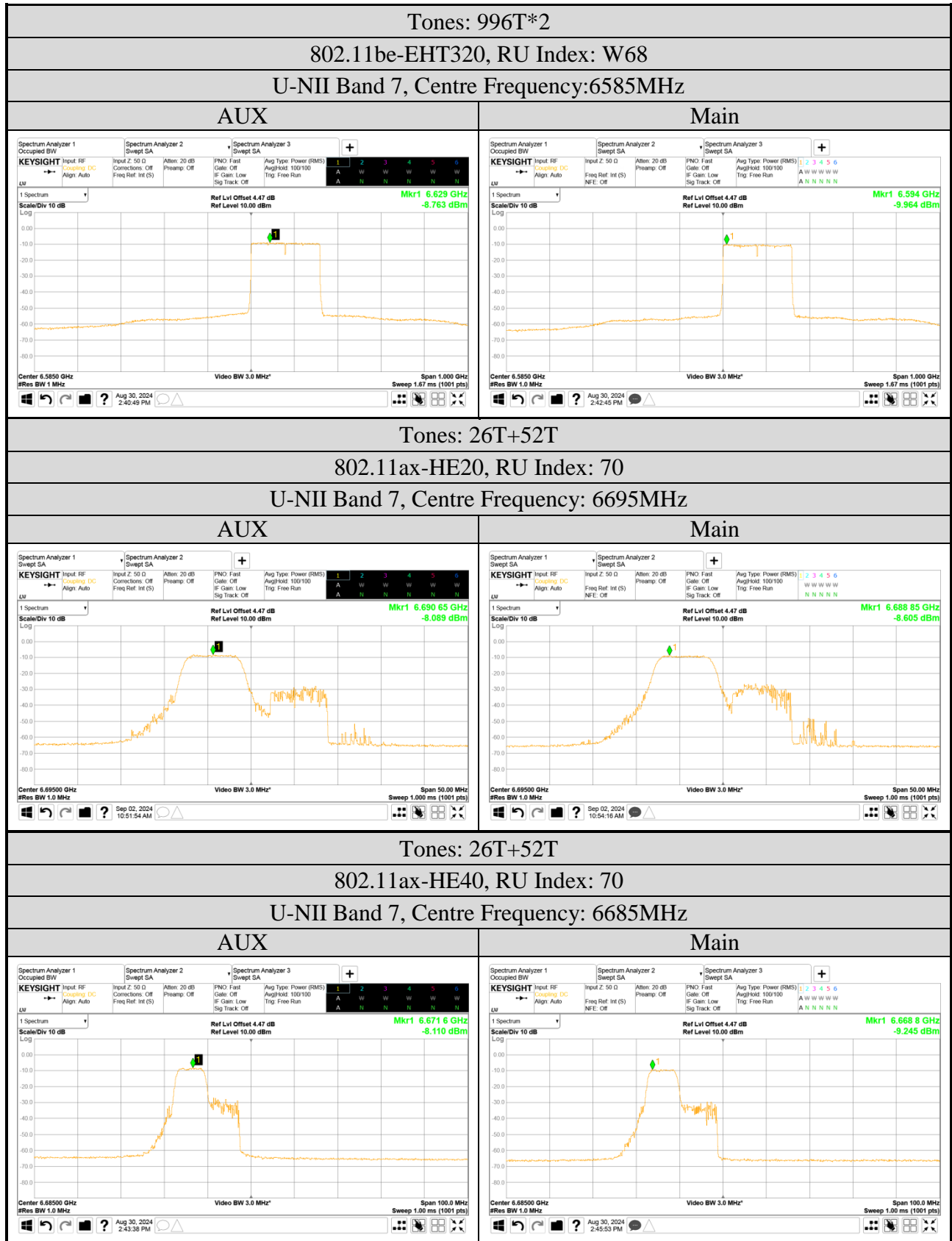
● OFDMA Modulation

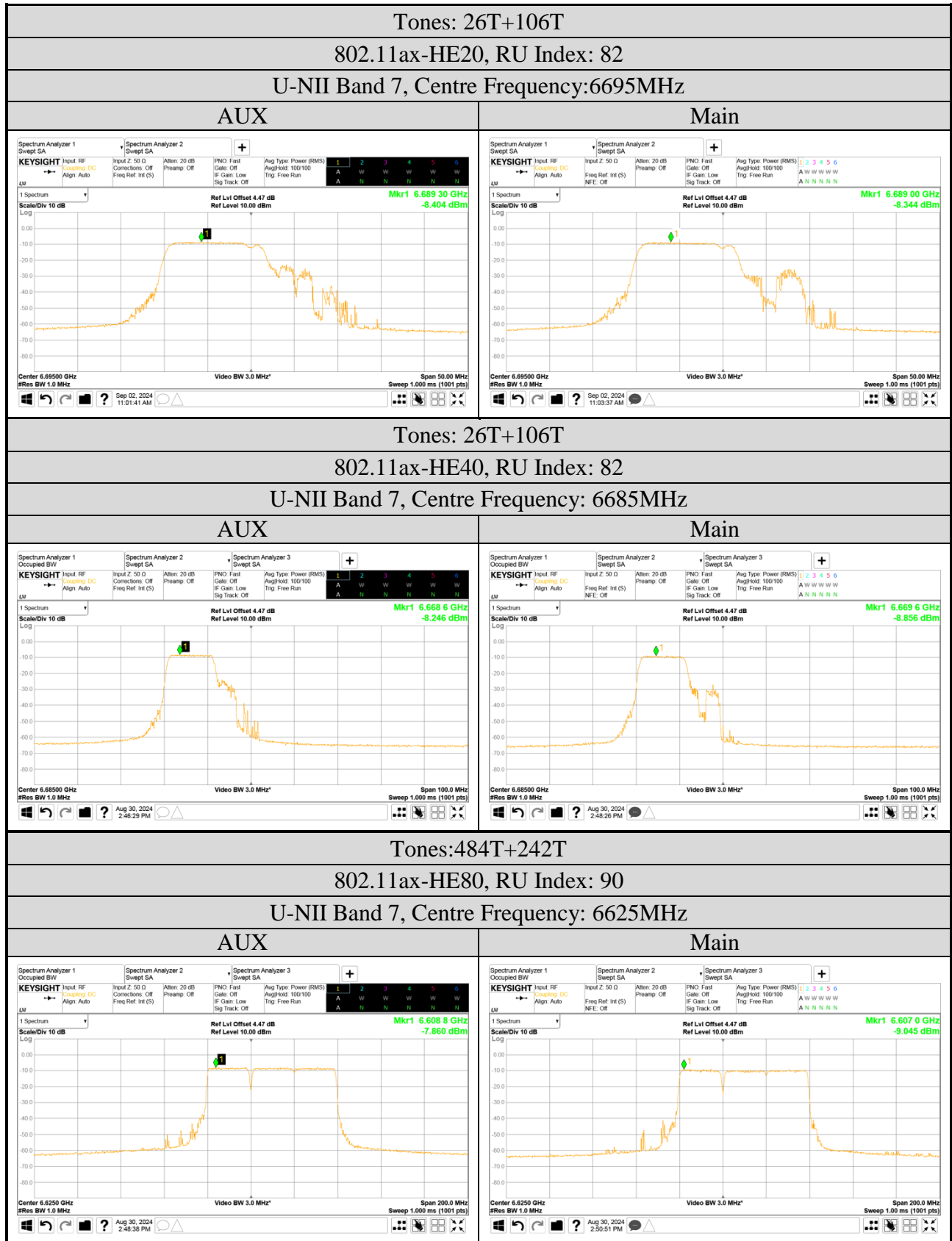


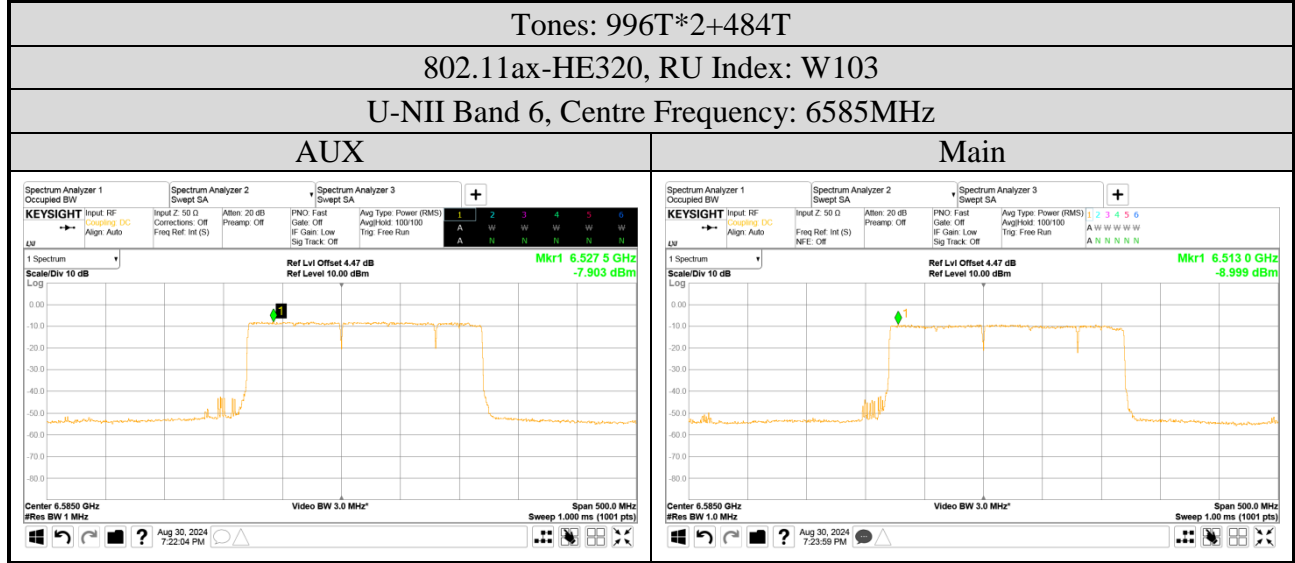
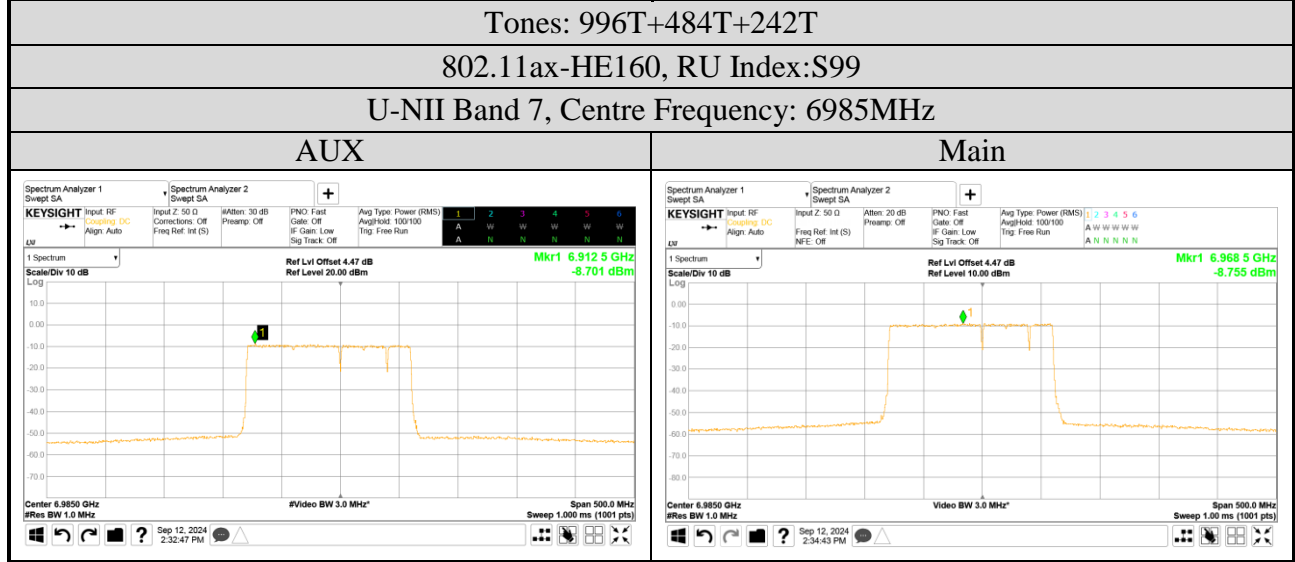
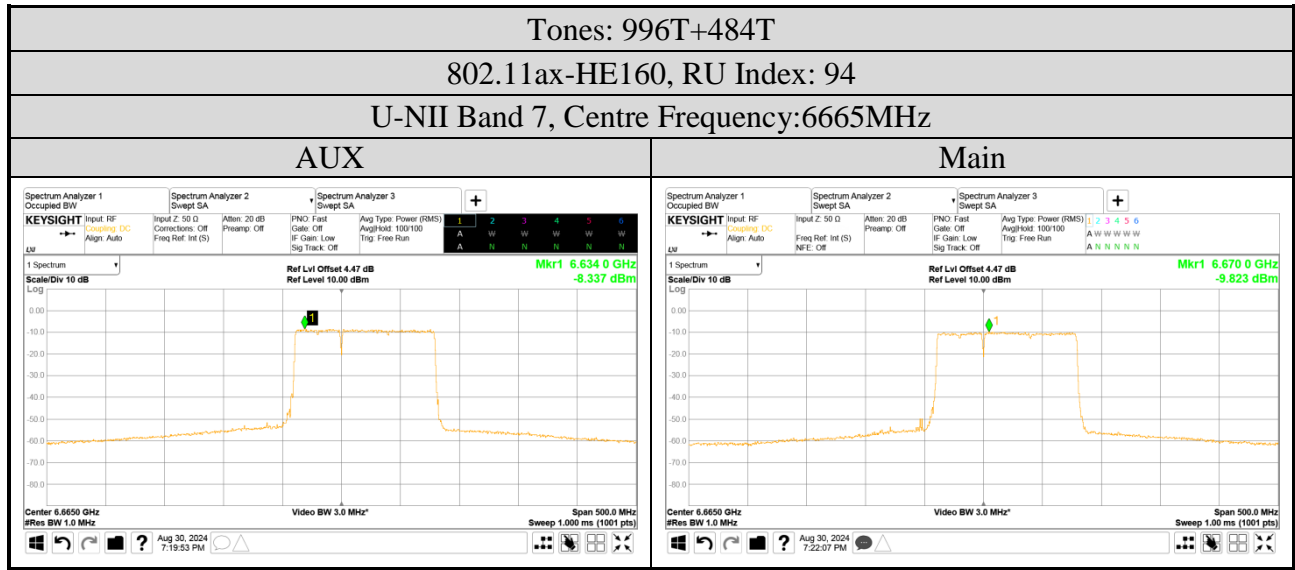


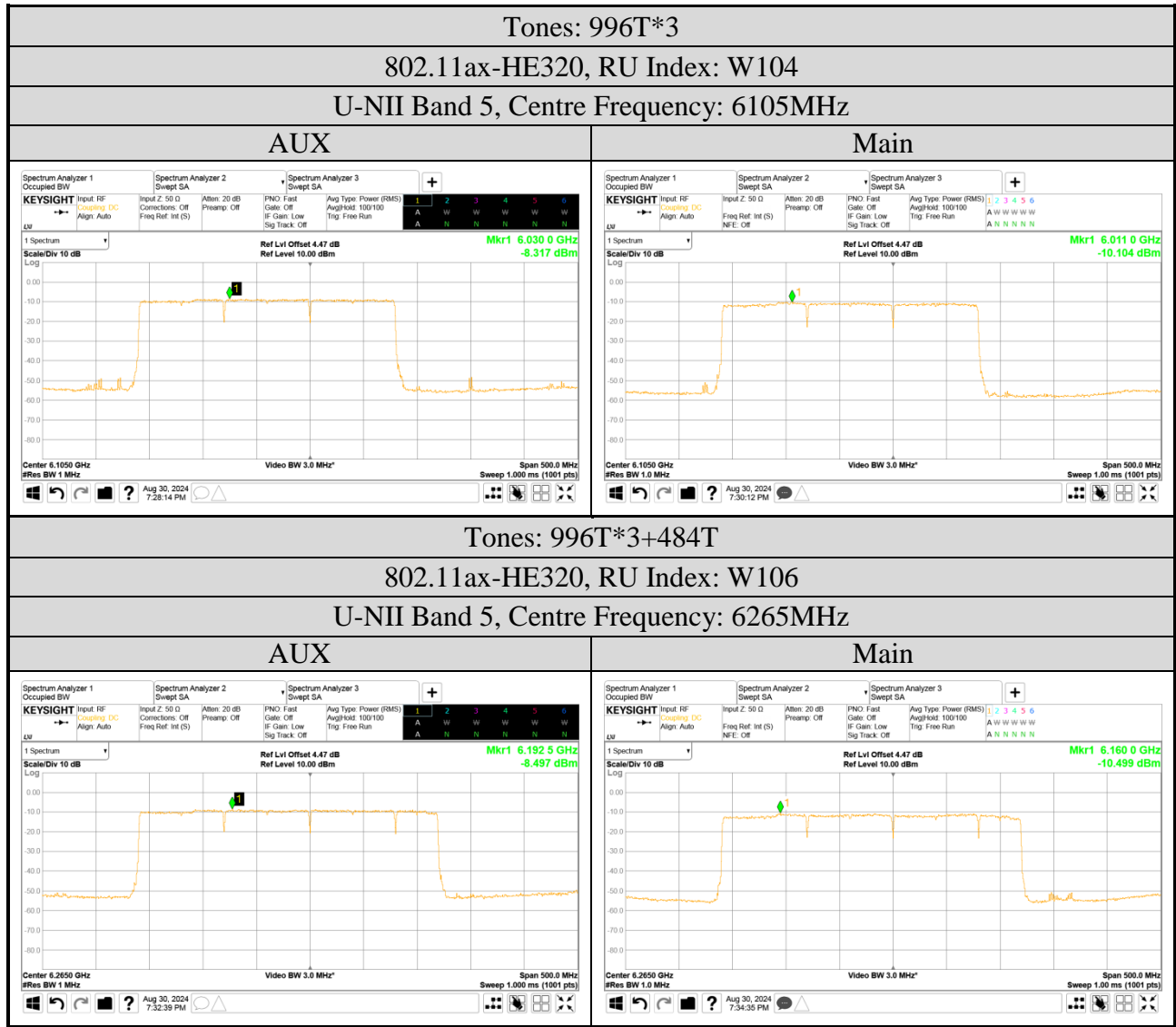












A.4 MAXIMUM CONDUCTED OUTPUT POWER

Test Date	2024/07/04 ~ 09/11	Temp./Hum.	24 ~ 25°C/51 ~ 57%
Cable Loss	4.47dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.4.1 Conducted Output Power Result

● OFDM Modulation

Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note2}	Limit
			AUX	Main				
802.11ax-HE20	5	5955	2.70	2.44	N/A	3.45	9.03	24dBm
		6175	2.64	2.46		3.45	9.01	
		6415	2.45	2.46		3.45	8.92	
	6	6435	2.43	2.32		3.45	8.84	
		6475	2.14	2.32		3.45	8.69	
		6515	2.60	2.64		3.45	9.08	
	7	6535	2.60	2.55		3.45	9.04	
		6695	2.60	3.00		3.45	9.26	
		6855	2.59	2.68		3.45	9.10	
	8	6875	2.47	2.69		3.45	9.04	
		6995	2.48	2.57		3.45	8.99	
		7115	-5.58	-5.22		3.45	1.06	
802.11ax-HE40	5	5965	5.44	5.25	N/A	3.45	11.81	24dBm
		6165	5.54	5.35		3.45	11.91	
		6405	5.31	5.25		3.45	11.74	
	6	6445	5.17	5.20		3.45	11.65	
		6485	5.06	5.22		3.45	11.60	
		6525	5.45	5.39		3.45	11.88	
	7	6685	5.60	6.01		3.45	12.27	
		6845	5.34	5.50		3.45	11.88	
		6885	5.28	5.57		3.45	11.89	
	8	7005	5.21	5.46		3.45	11.80	
		7085	5.18	5.65		3.45	11.88	

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

2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ 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

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

$$\text{Directional gain} = 10 \log[(10^{3.6/10} + 10^{3.3/10})/2] = 3.45\text{dBi}$$

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

Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note2}	Limit
			AUX	Main				
802.11ax-HE80	5	5985	8.87	8.22	N/A	3.45	15.02	24dBm
		6145	8.63	8.33		3.45	14.94	
		6385	8.88	8.00		3.45	14.92	
	6	6465	8.82	8.14		3.45	14.95	
		6545	8.98	8.20		3.45	15.07	
		6625	8.95	8.35		3.45	15.12	
	7	6705	8.49	8.03		3.45	14.73	
		6785	8.13	8.00		3.45	14.53	
		6865	8.25	7.94		3.45	14.56	
	8	6945	8.42	8.08		3.45	14.71	
		7025	8.40	8.27		3.45	14.80	
		6025	11.64	11.07		N/A	3.45	
5	6185	11.54	11.01	3.45	17.74			
	6345	11.73	10.81	3.45	17.75			
	6	6505	11.87	11.40	3.45		18.10	
7		6665	11.79	11.70	3.45		18.21	
		6825	11.47	11.48	3.45		17.94	
8	6985	11.51	11.29	3.45	17.86			

- Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]
2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ Directional gain (dBi) + duty cycle factor(dB) when duty cycle is less than 98%.
3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then
 Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi
 Directional gain = $10 \log[(10^{3.6/10} + 10^{3.3/10})/2] = 3.45$ 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).

Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note2}	Limit
			AUX	Main				
802.11be-EHT20	5	5955	2.68	2.40	N/A	3.45	9.00	24dBm
		6175	2.62	2.42		3.45	8.98	
		6415	2.43	2.45		3.45	8.90	
	6	6435	2.41	2.30		3.45	8.82	
		6475	2.14	2.32		3.45	8.69	
		6515	2.58	2.62		3.45	9.06	
	7	6535	2.59	2.53		3.45	9.02	
		6695	2.59	2.99		3.45	9.25	
		6855	2.60	2.73		3.45	9.13	
	8	6875	2.44	2.72		3.45	9.04	
		6995	2.47	2.59		3.45	8.99	
		7115	-5.56	-5.18		3.45	1.09	
802.11be-EHT40	5	5965	5.44	5.25	N/A	3.45	11.81	24dBm
		6165	5.54	5.33		3.45	11.90	
		6405	5.32	5.23		3.45	11.74	
	6	6445	5.18	5.24		3.45	11.67	
		6485	5.07	5.25		3.45	11.62	
	7	6525	5.43	5.40		3.45	11.88	
		6685	5.60	6.01		3.45	12.27	
		6845	5.34	5.51		3.45	11.89	
	8	6885	5.28	5.60		3.45	11.90	
		7005	5.19	5.48		3.45	11.80	
		7085	5.19	5.64		3.45	11.88	

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

2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ 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

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

$$\text{Directional gain} = 10 \log[(10^{3.6/10} + 10^{3.3/10})/2] = 3.45 \text{ dBi}$$

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

Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note2}	Limit
			AUX	Main				
802.11be-EHT80	5	5985	8.96	8.24	N/A	3.45	15.08	24dBm
		6145	8.70	8.30		3.45	14.96	
		6385	8.98	7.98		3.45	14.97	
	6	6465	8.94	8.14		3.45	15.02	
		6545	8.92	8.36		3.45	15.11	
		6625	8.85	8.45		3.45	15.11	
	7	6705	8.44	7.98		3.45	14.68	
		6785	8.04	7.92		3.45	14.44	
		6865	8.18	7.90		3.45	14.50	
	8	6945	8.27	8.11		3.45	14.65	
		7025	8.38	8.07		3.45	14.69	
		6025	11.80	11.29		N/A	3.45	
5	6185	11.83	11.19	3.45	17.98			
	6345	11.89	10.90	3.45	17.88			
	6505	11.89	11.34	3.45	18.08			
7	6665	11.76	11.56	3.45	18.12			
	6825	11.37	11.37	3.45	17.83			
8	6985	11.51	11.35	3.45	17.89			
802.11be-EHT3200	5	6105	14.23	13.68	N/A		3.45	20.42
		6265	14.13	13.41			3.45	20.25
		6425	14.21	13.43			3.45	20.30
	6585	14.18	13.84	3.45			20.47	
	7	6745	13.92	13.90			3.45	20.37
	8	6905	12.32	12.36		3.45	18.80	

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

2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ 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

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

$$\text{Directional gain} = 10 \log[(10^{3.6/10} + 10^{3.3/10})/2] = 3.45 \text{ dBi}$$

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