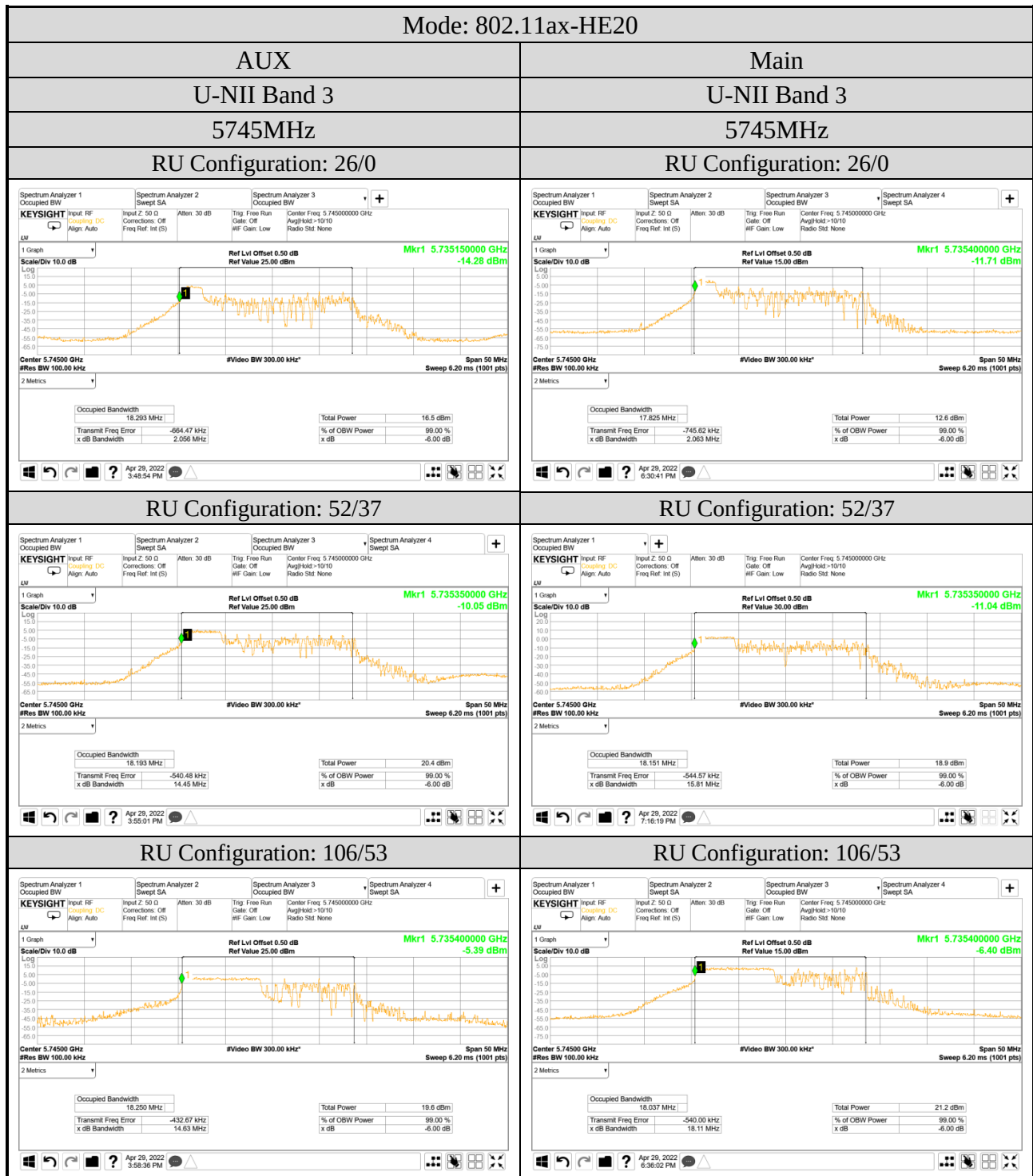


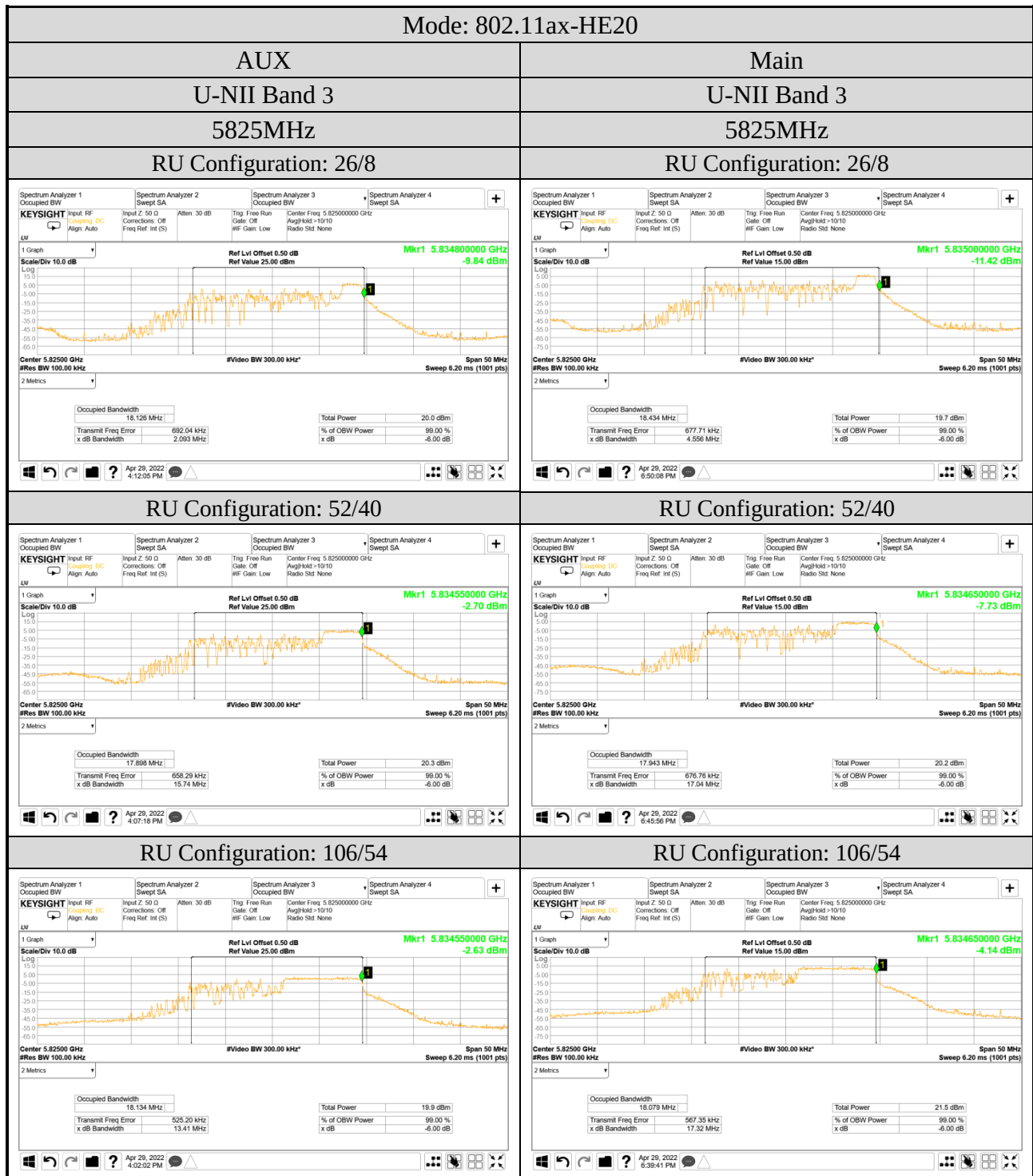
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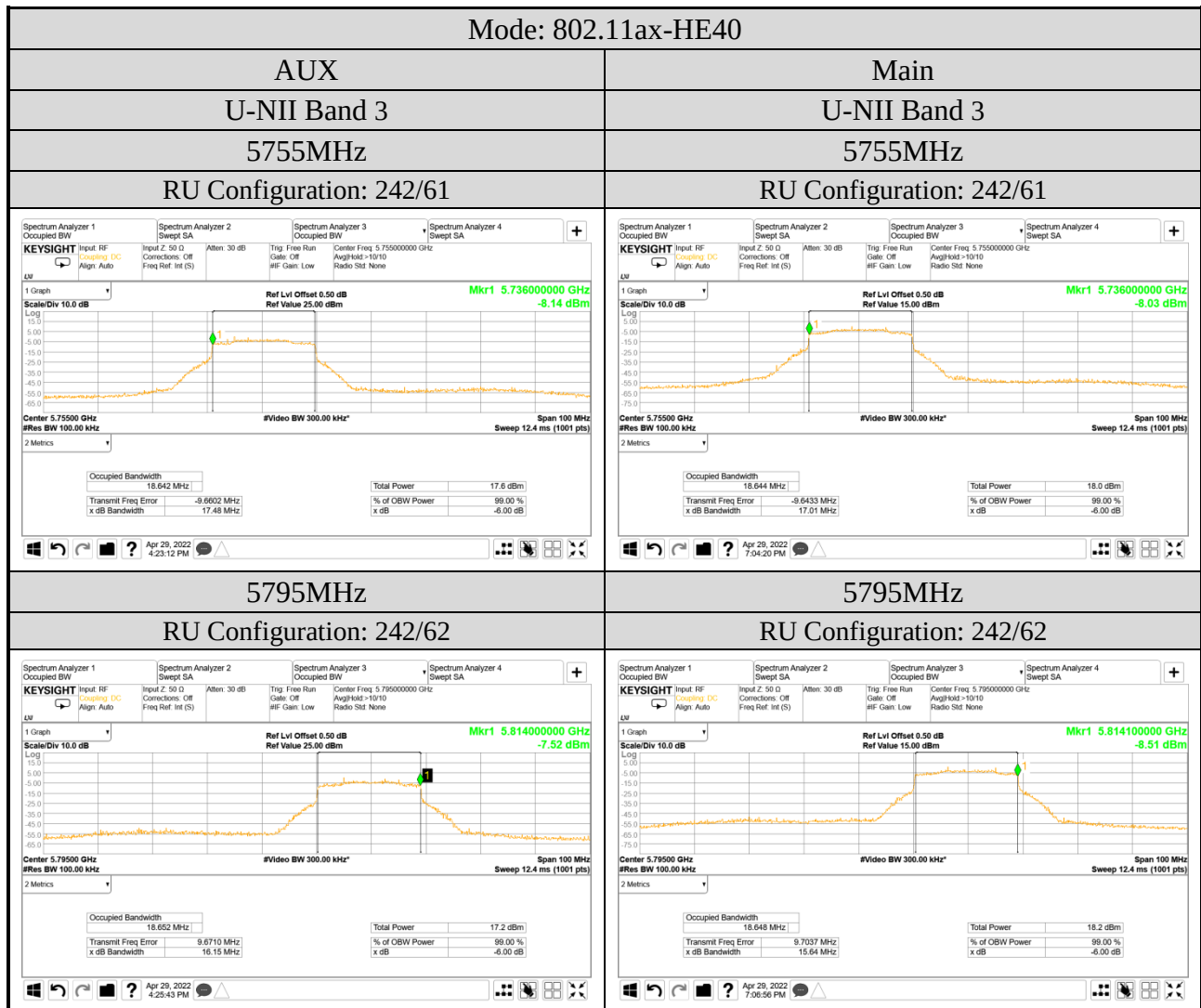
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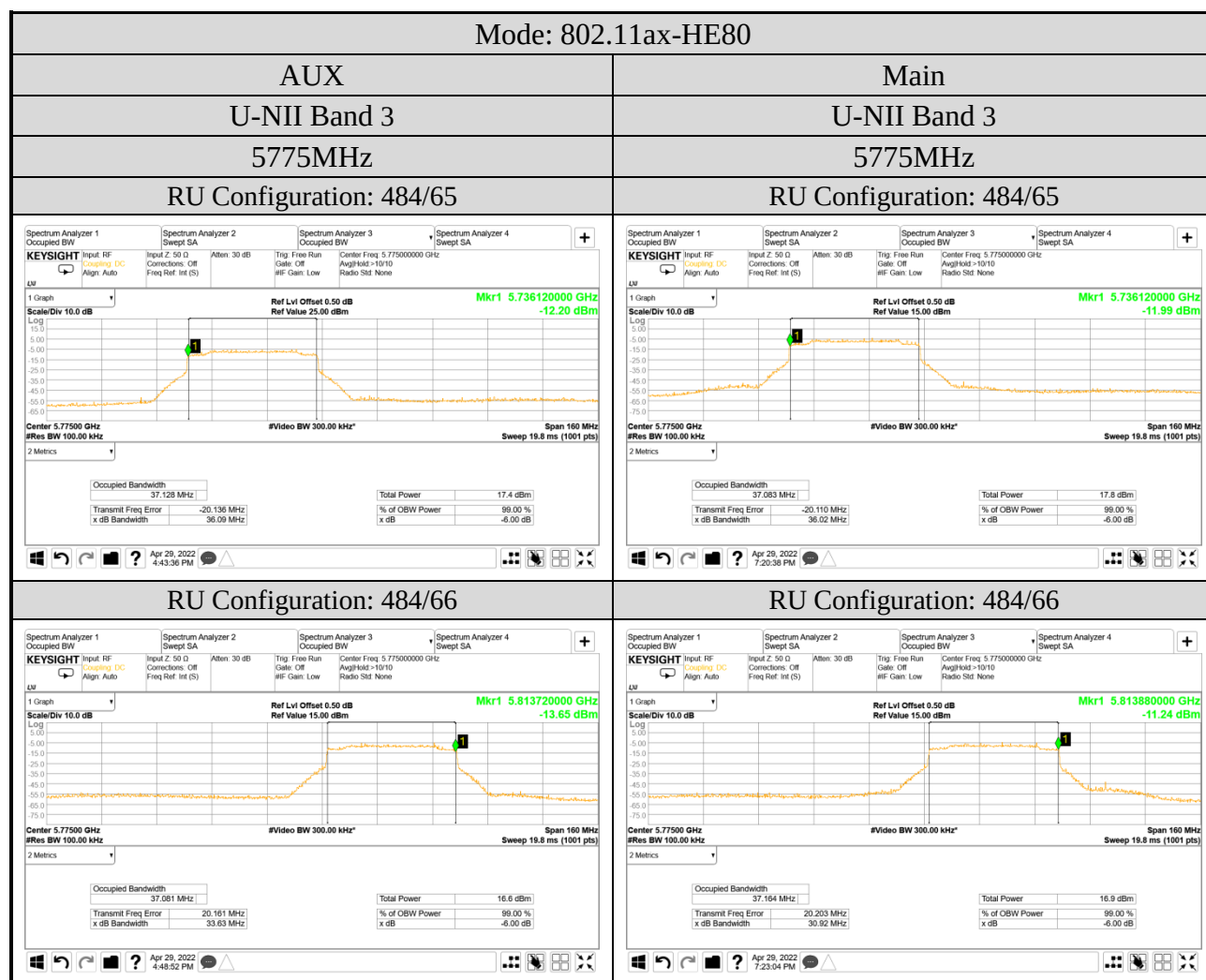
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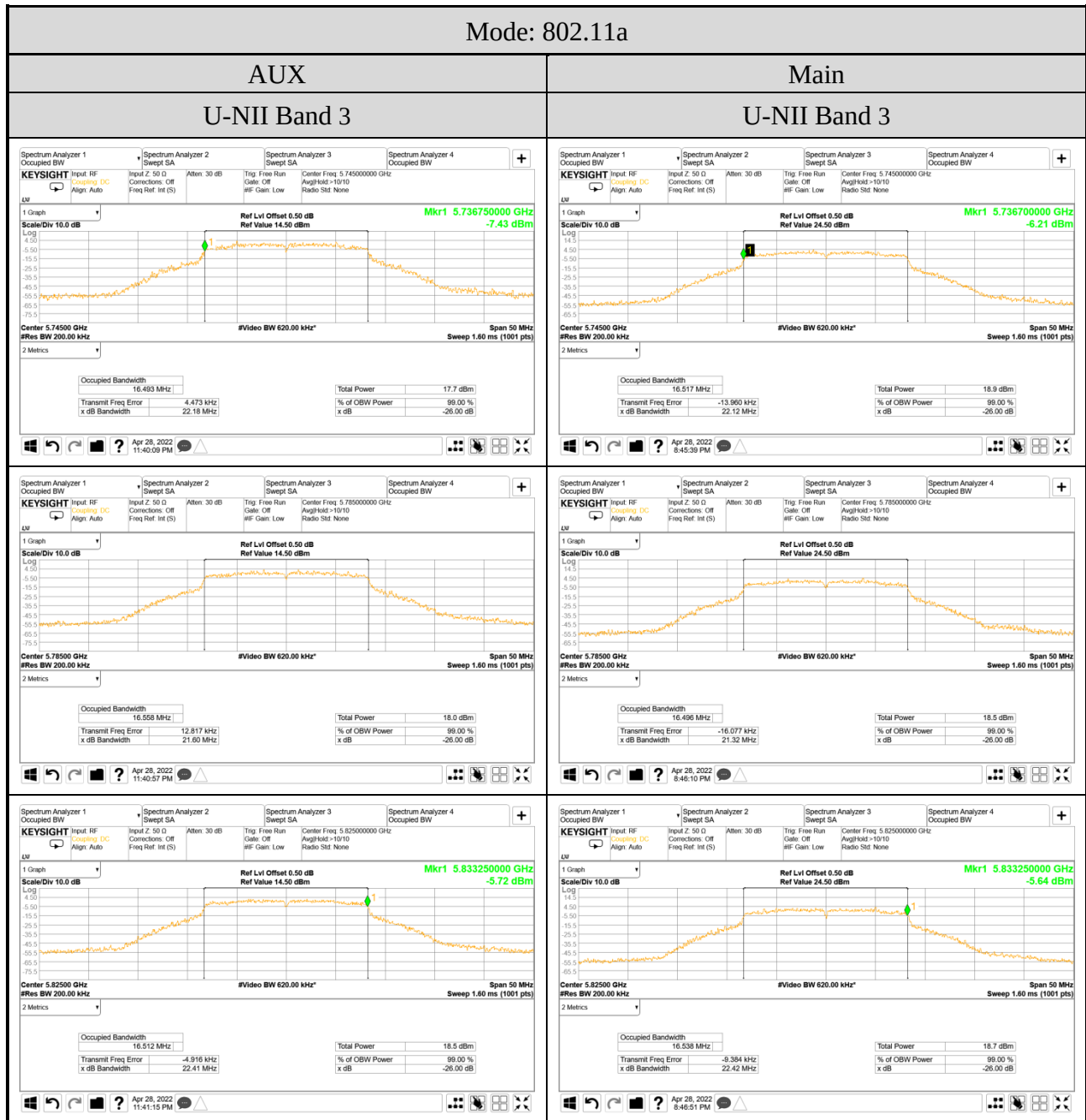
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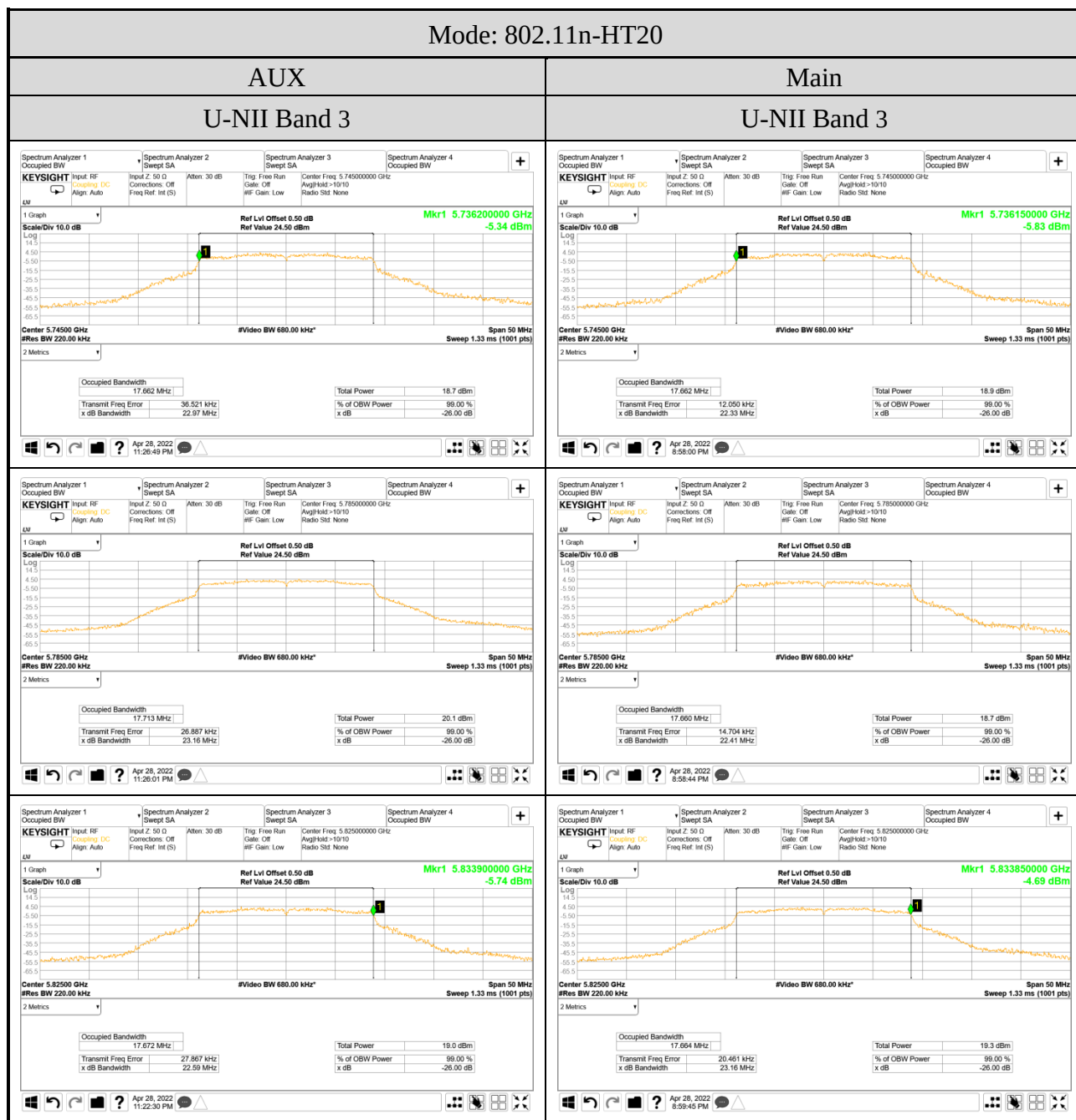


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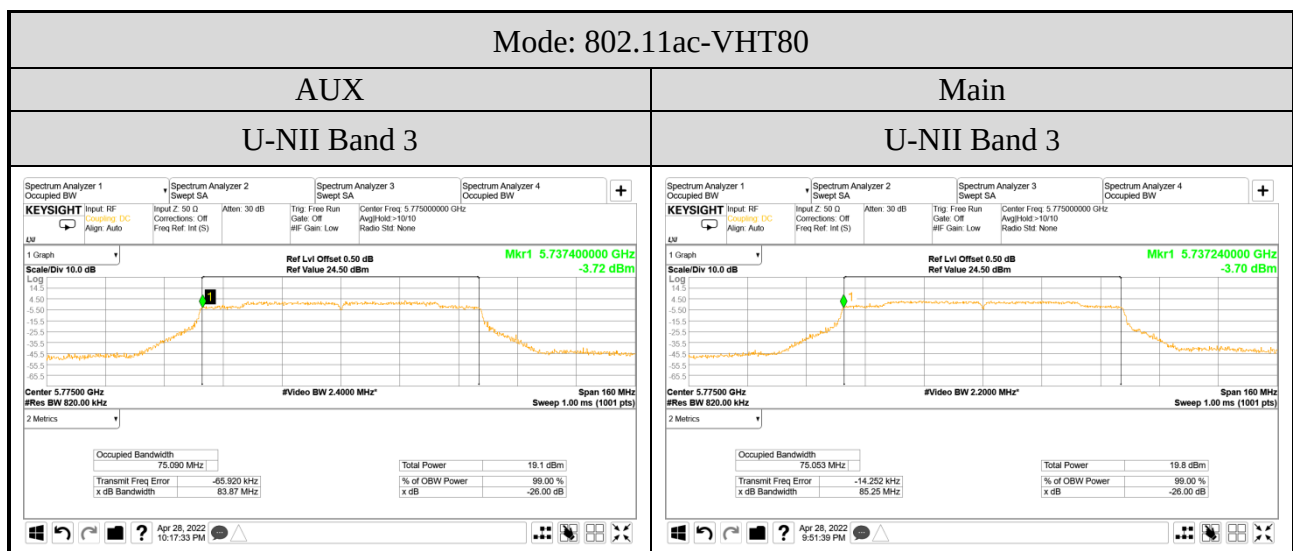
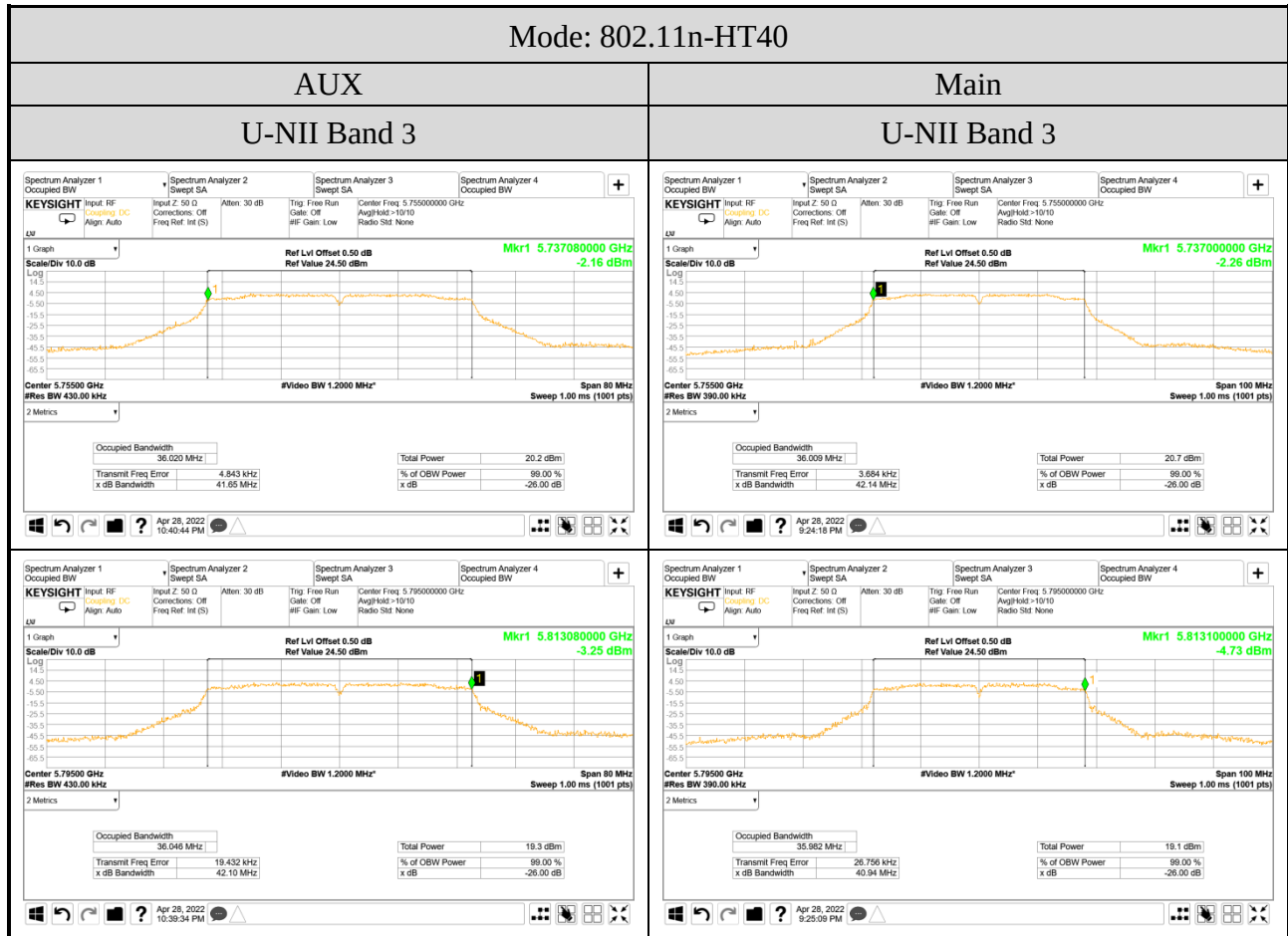
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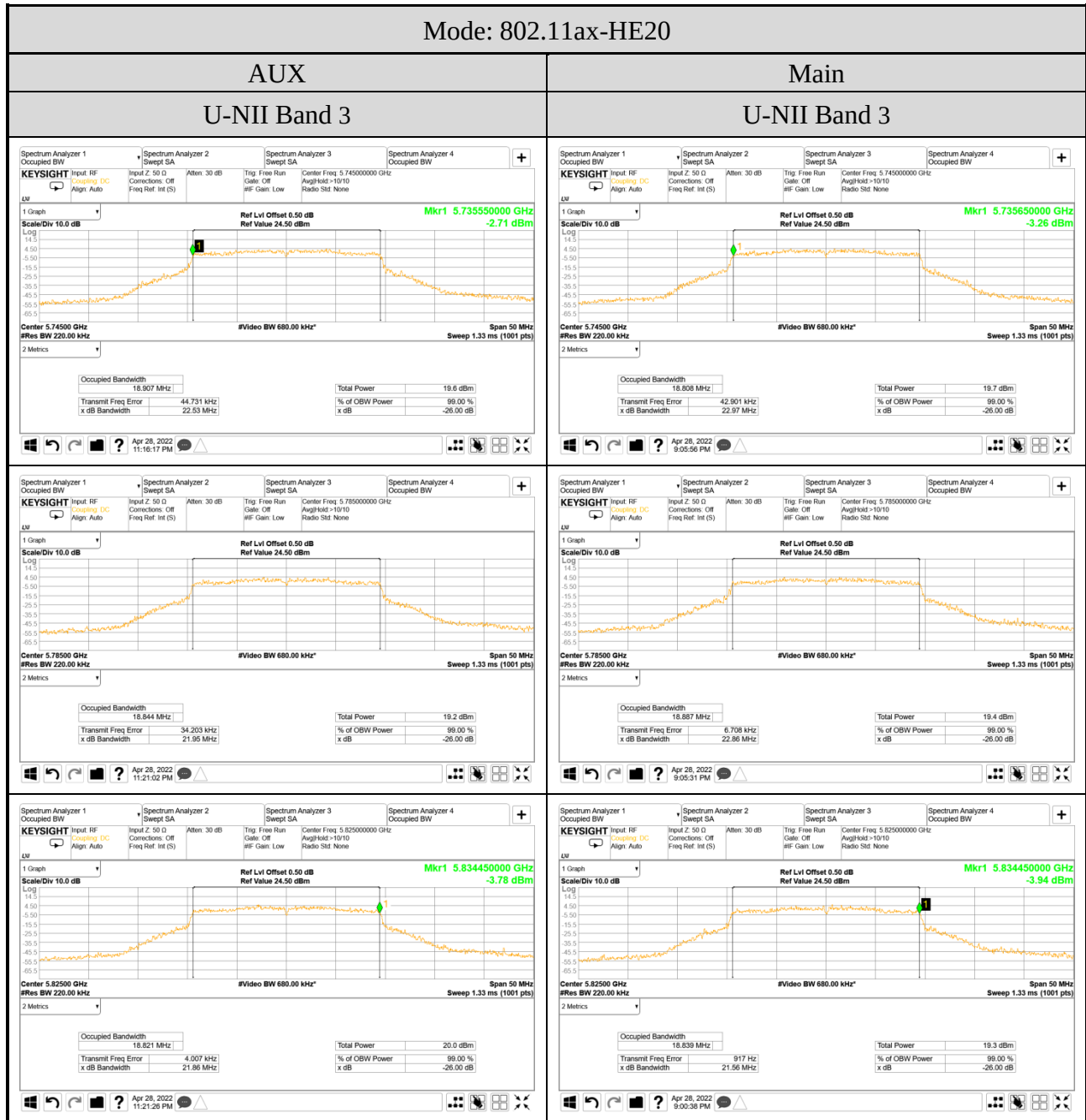
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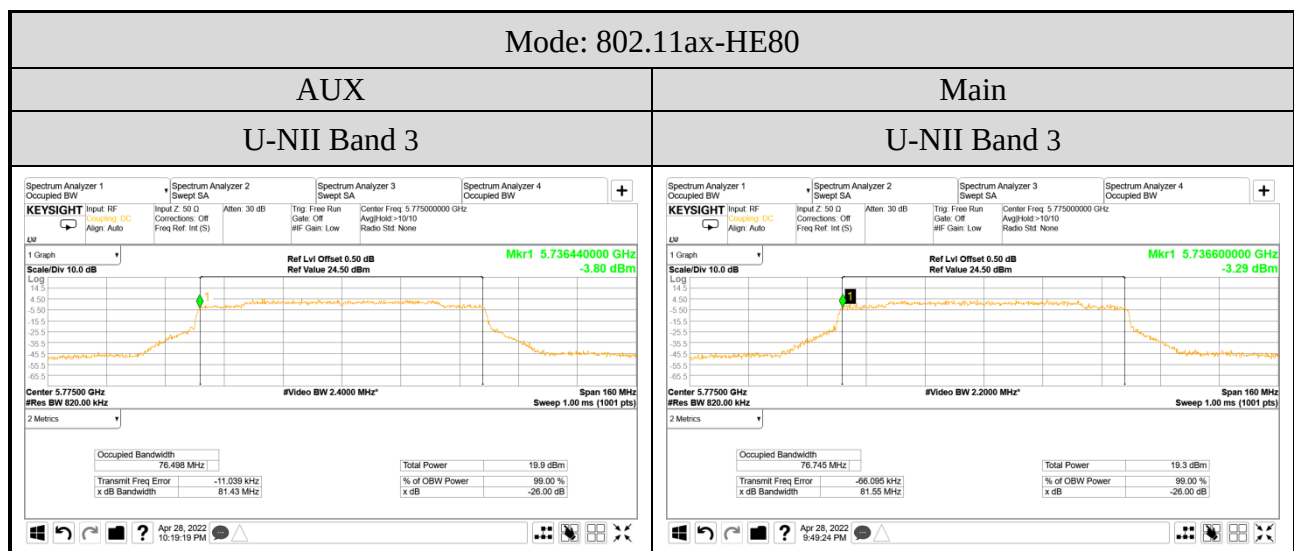
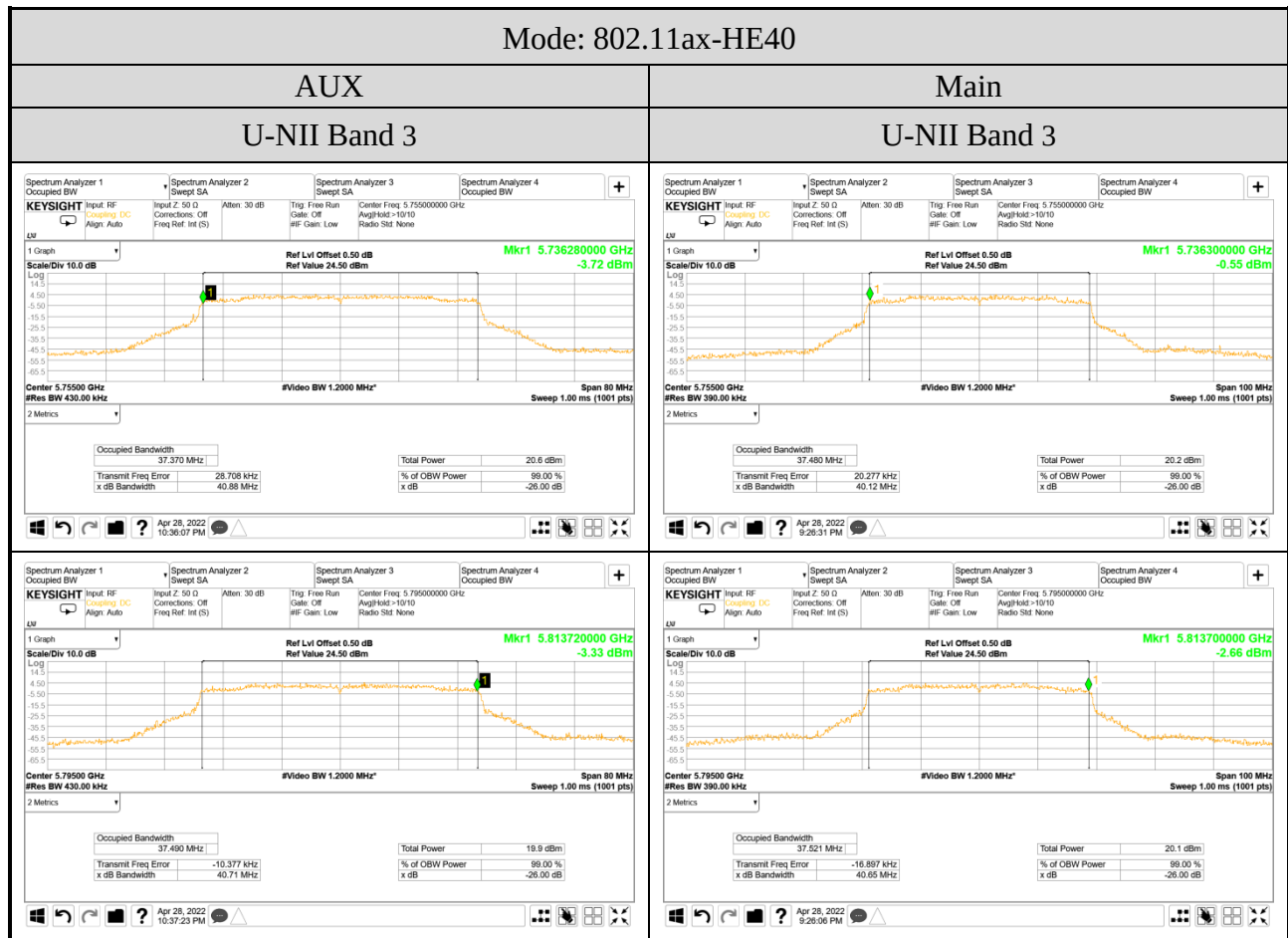
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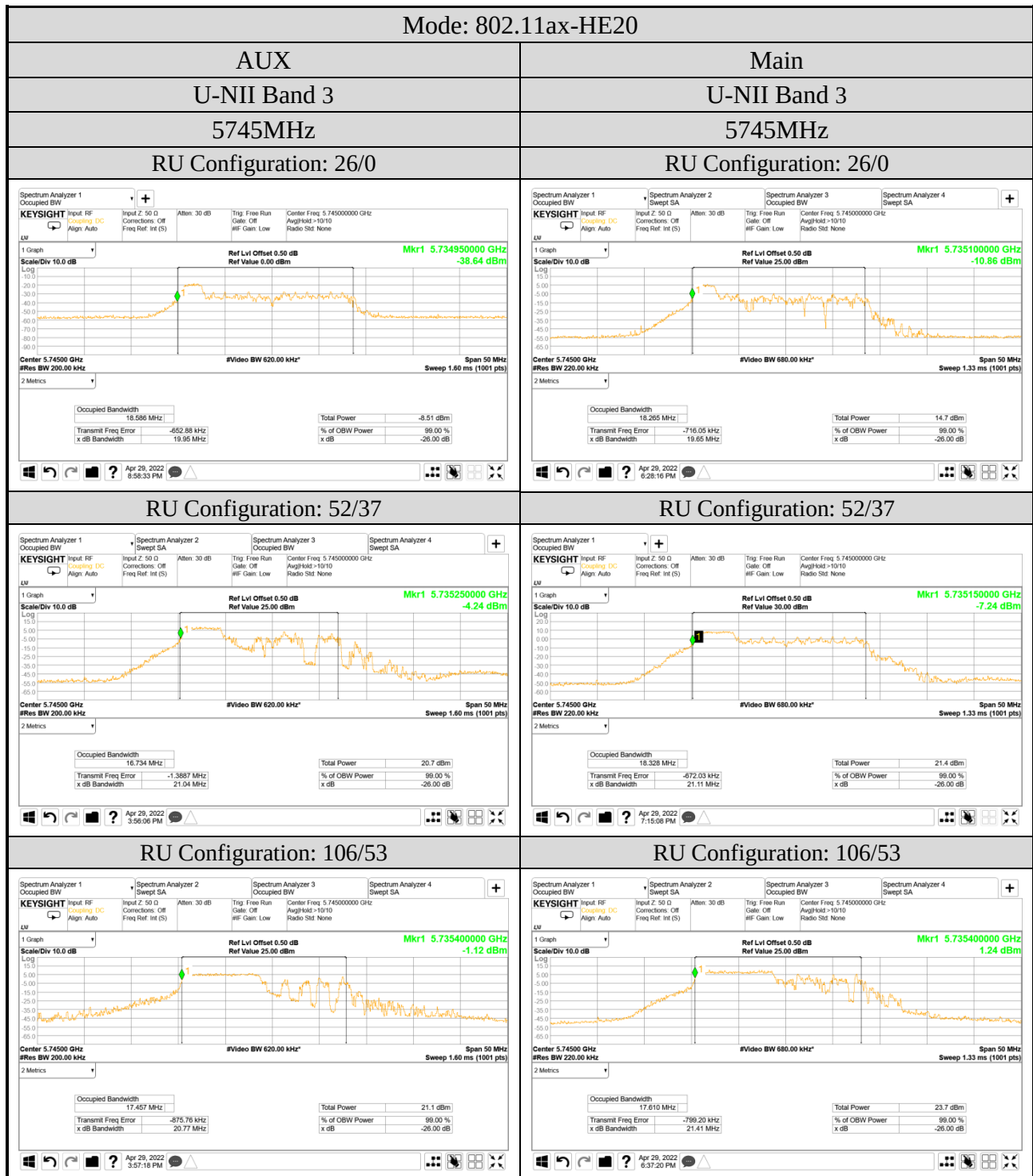
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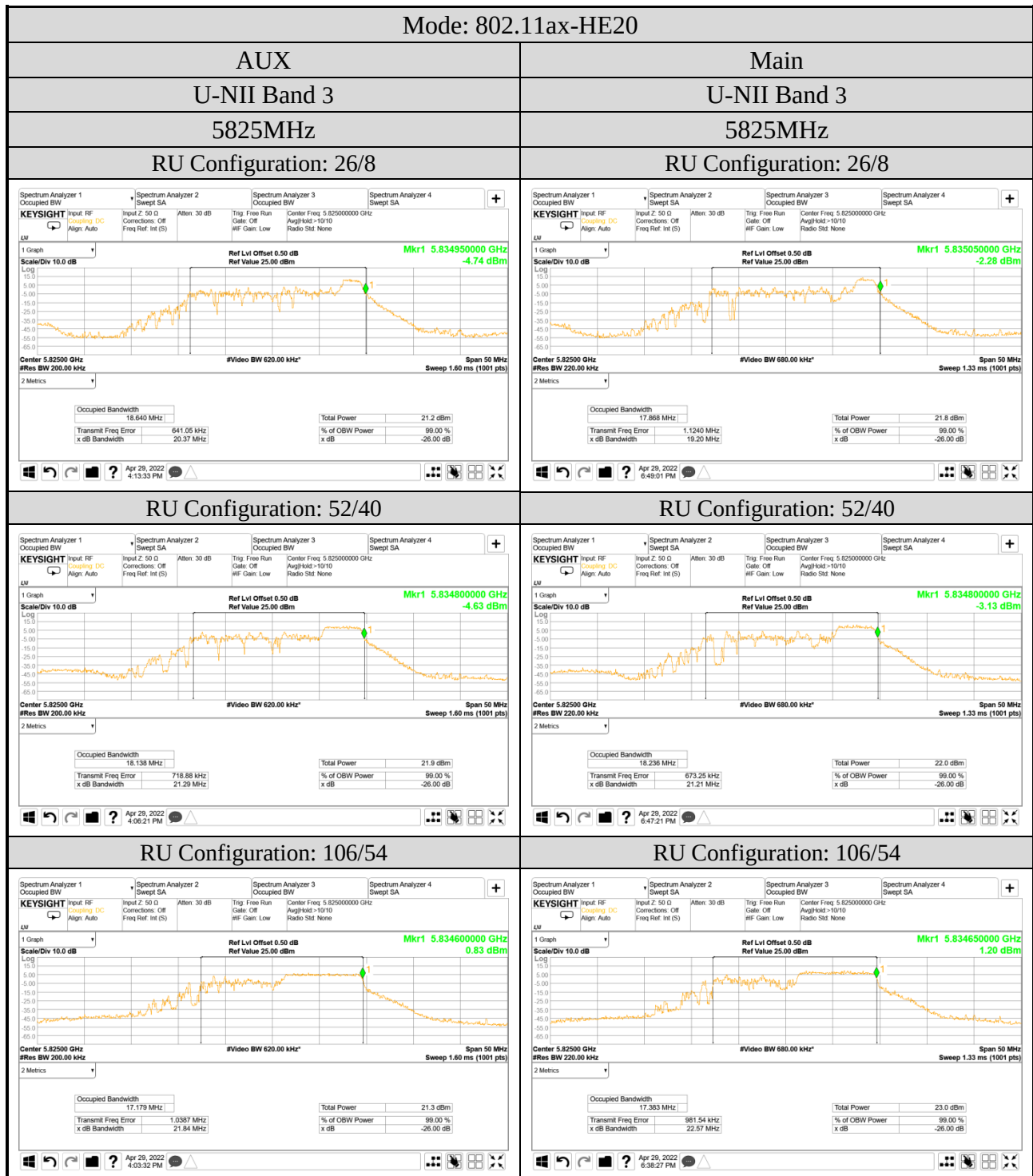
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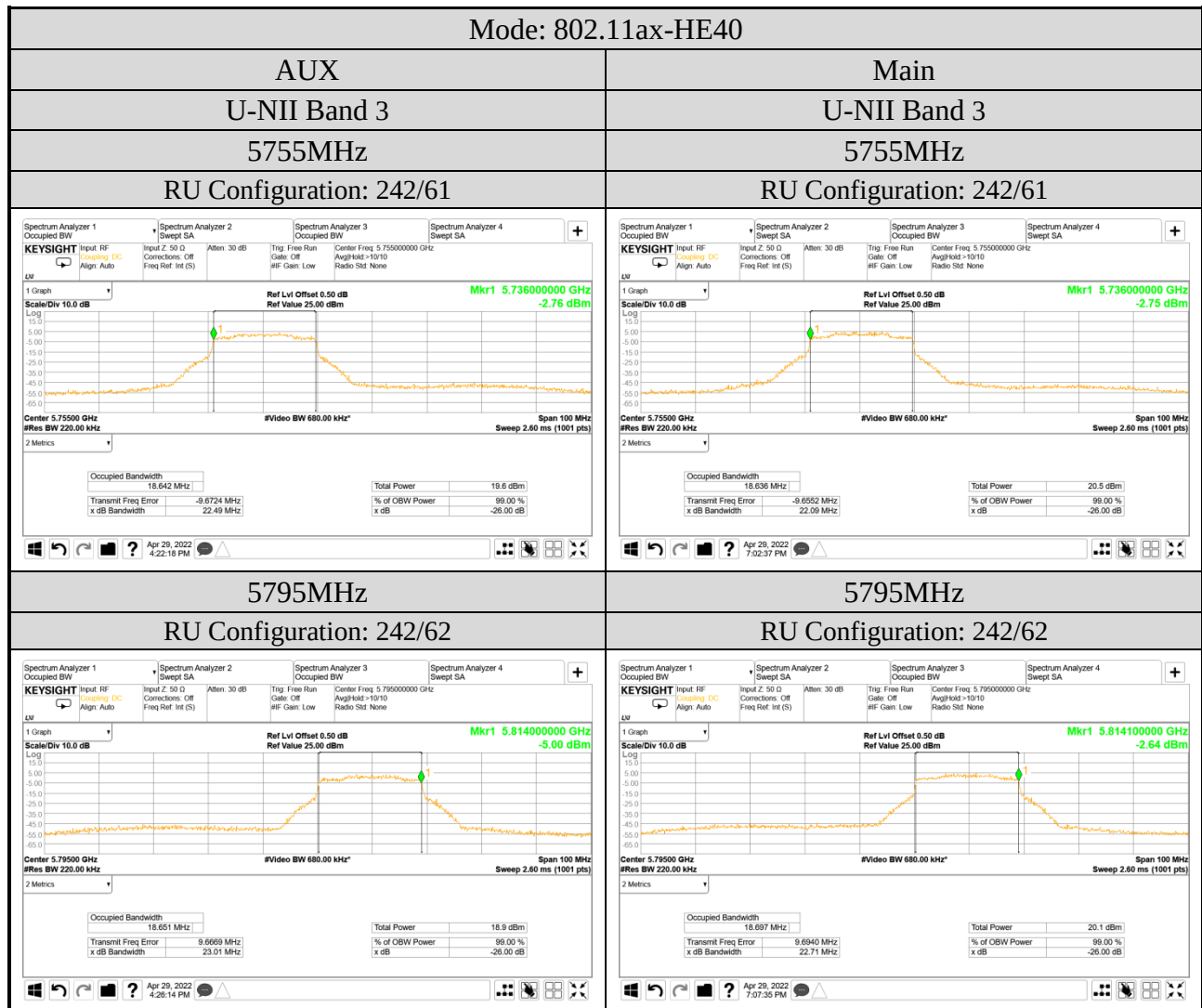
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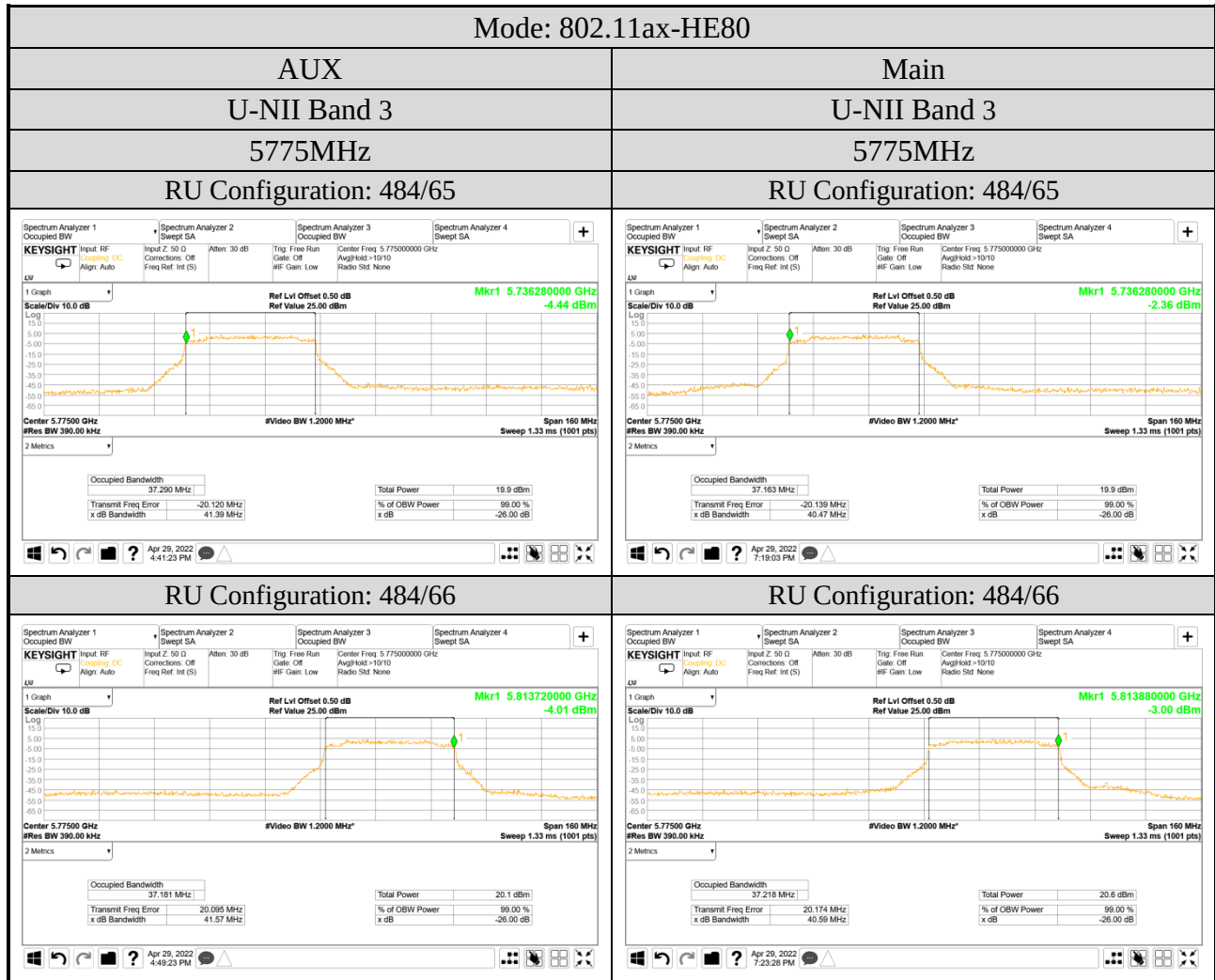
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A.4 POWER SPECTRAL DENSITY

Test Date	2022/04/25 ~ 29	Temp./Hum.	24°C/56 ~ 60%
Cable Loss	0.5dB	Tested By	Sam Chang
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	3.849	3.481	0.123	3.972	11 dBm/MHz
		5200	3.692	3.172		3.815	
		5240	3.336	3.286		3.459	
	2A	5260	3.295	3.144		3.418	
		5300	3.466	3.282		3.589	
		5320	3.658	3.441		3.781	
	2C	5500	3.913	3.946		4.069	
		5580	3.316	2.685		3.439	
		5700	4.080	3.750		4.203	
		5720	3.989	3.933		4.112	

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	1.263	1.047	0.123	1.386	30dBm/500 kHz
		5785	0.960	1.585		1.708	
		5825	1.746	1.231		1.869	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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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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	3.659	3.337	N/A	6.511	11 dBm/MHz
		5200	3.581	3.111		6.363	
		5240	2.803	2.388		5.611	
	2A	5260	2.999	3.169		6.095	
		5300	3.210	2.924		6.080	
		5320	3.239	3.059		6.160	
	2C	5500	3.928	3.848		6.898	
		5580	3.188	2.829		6.023	
		5700	3.990	3.691		6.853	
		5720	4.067	3.879		6.984	

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	1.404	1.618	N/A	4.523	30dBm/500 kHz
		5785	1.076	1.381		4.241	
		5825	1.472	0.845		4.180	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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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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	0.408	-0.096	0.097	3.271	11 dBm/MHz
		5230	-1.676	-2.730		0.936	
	2A	5270	-0.050	-0.413		2.880	
		5310	0.111	-0.252		3.041	
	2C	5510	0.676	0.268		3.584	
		5550	0.218	0.081		3.257	
		5670	0.552	0.254		3.513	
		5710	1.019	0.499		3.874	

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	-2.466	-2.475	0.097	0.637	30dBm/500 kHz
		5795	-2.067	-2.408		0.873	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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%.

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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			
802.11ac-VHT80	1	5210	-2.481	-3.111	N/A	0.226	11 dBm/MHz
	2A	5290	-2.785	-3.226		0.010	
	2C	5530	-2.768	-3.279		-0.006	
		5610	-2.921	-3.134		-0.016	
		5690	-2.068	-2.658		0.657	

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	-5.509	-5.561	N/A	-2.525	30dBm/500 kHz

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	-6.777	-7.224	N/A	-3.984	11 dBm/MHz
	2C	5570	-7.669	-8.213		-4.922	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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%.

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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	3.040	2.939	N/A	6.000	11 dBm/MHz
		5200	3.225	2.954		6.102	
		5240	2.477	2.347		5.423	
	2A	5260	2.911	2.911		5.921	
		5300	3.005	2.974		6.000	
		5320	3.112	3.115		6.124	
	2C	5500	3.852	3.284		6.588	
		5580	2.830	2.321		5.593	
		5700	3.675	3.416		6.558	
		5720	3.598	3.651		6.635	

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	-0.022	-0.150	N/A	2.925	30dBm/500 kHz
		5785	-0.043	0.135		3.057	
		5825	0.233	-0.081		3.089	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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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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	0.026	-0.626	N/A	2.723	11 dBm/MHz
		5230	-2.131	-2.936		0.495	
	2A	5270	-0.374	-0.566		2.541	
		5310	-0.146	-0.553		2.666	
	2C	5510	0.417	-0.920		2.810	
		5550	-0.010	-0.907		2.575	
		5670	0.065	-0.918		2.612	
		5710	0.561	-0.890		2.906	

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	-3.540	-4.276	N/A	-0.882	30dBm/500 kHz
		5795	-3.384	-4.099		-0.717	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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%.

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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-HE80	1	5210	-2.690	-3.307	N/A	0.023	11 dBm/MHz
	2A	5290	-2.817	-3.321		-0.051	
	2C	5530	-3.304	-3.892		-0.578	
		5610	-3.118	-4.047		-0.547	
		5690	-2.512	-3.547		0.012	

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	-6.380	-7.003	N/A	-3.670	30dBm/500 kHz

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-HE160	1/2A	5250	-7.033	-7.532	0.097	-4.168	11 dBm/MHz
	2C	5570	-8.017	-8.544		-5.165	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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%.

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				AUX	Main			
802.11ax-HE20	1	5180	26/0	1.395	5.648	0.110	7.143	11 dBm/MHz
			52/37	1.614	6.600		7.907	
			106/53	1.699	6.583		7.914	
	2A	5320	26/8	3.496	5.609		7.800	
			52/40	3.727	6.159		8.231	
			106/54	2.604	5.015		7.095	
	2C	5500	26/0	4.812	6.093		8.620	
			52/37	4.317	6.572		8.710	
			106/53	3.751	5.246		7.683	
		5700	26/8	6.438	5.907		9.301	
			52/40	6.100	6.439		9.393	
			106/54	5.660	5.968		8.937	

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	4.654	0.581	0.110	6.199	30dBm/500 kHz
			52/37	5.035	4.039		7.686	
			106/53	2.579	2.833		5.828	
		5825	26/8	7.929	7.948		11.059	
			52/40	5.145	5.344		8.366	
			106/54	2.518	2.426		5.593	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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%.

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				AUX	Main			
802.11ax-HE40	1	5190	242/61	-0.880	3.366	0.110	4.863	11 dBm/MHz
	2A	5310	242/62	1.151	2.369		4.923	
	2C	5510	242/61	2.217	3.577		5.414	
		5670	242/62	3.084	3.237		6.281	

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-HE40	3 ^{Note2}	5755	242/61	-0.491	0.078	0.110	2.923	30dBm/500 kHz
		5795	242/62	-0.424	0.088		2.960	

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-HE80	1	5210	484/65	-5.324	-3.094	0.101	-0.956	11 dBm/MHz
	2A	5290	484/66	-6.019	-4.522		-2.095	
	2C	5530	484/65	-0.992	-1.040		2.095	
		5610	484/66	-1.021	-0.212		2.514	

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-HE80	3 ^{Note2}	5775	484/65	-3.873	-3.426	0.101	-0.532	30dBm/500 kHz
		5290	484/66	-3.852	-3.371		-0.494	

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-HE160	1/2A	5250	996/67	-6.765	-3.238	N/A	-1.643	11 dBm/MHz
			996/S67	-5.693	-6.302		-2.977	
	2C	5570	996/67	-3.835	-3.151		-0.469	
			996/S67	-3.553	-3.144		-0.333	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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%.