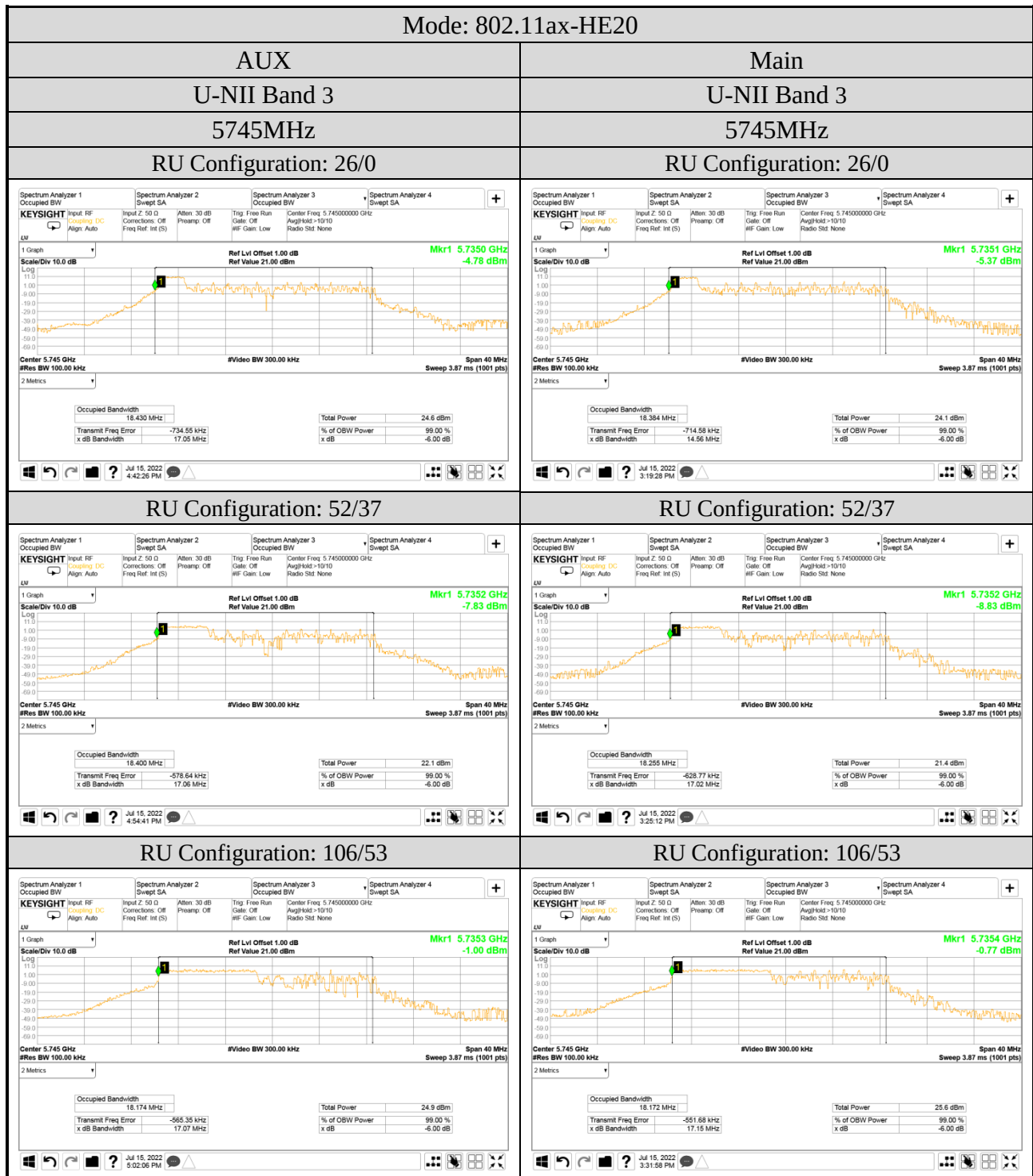


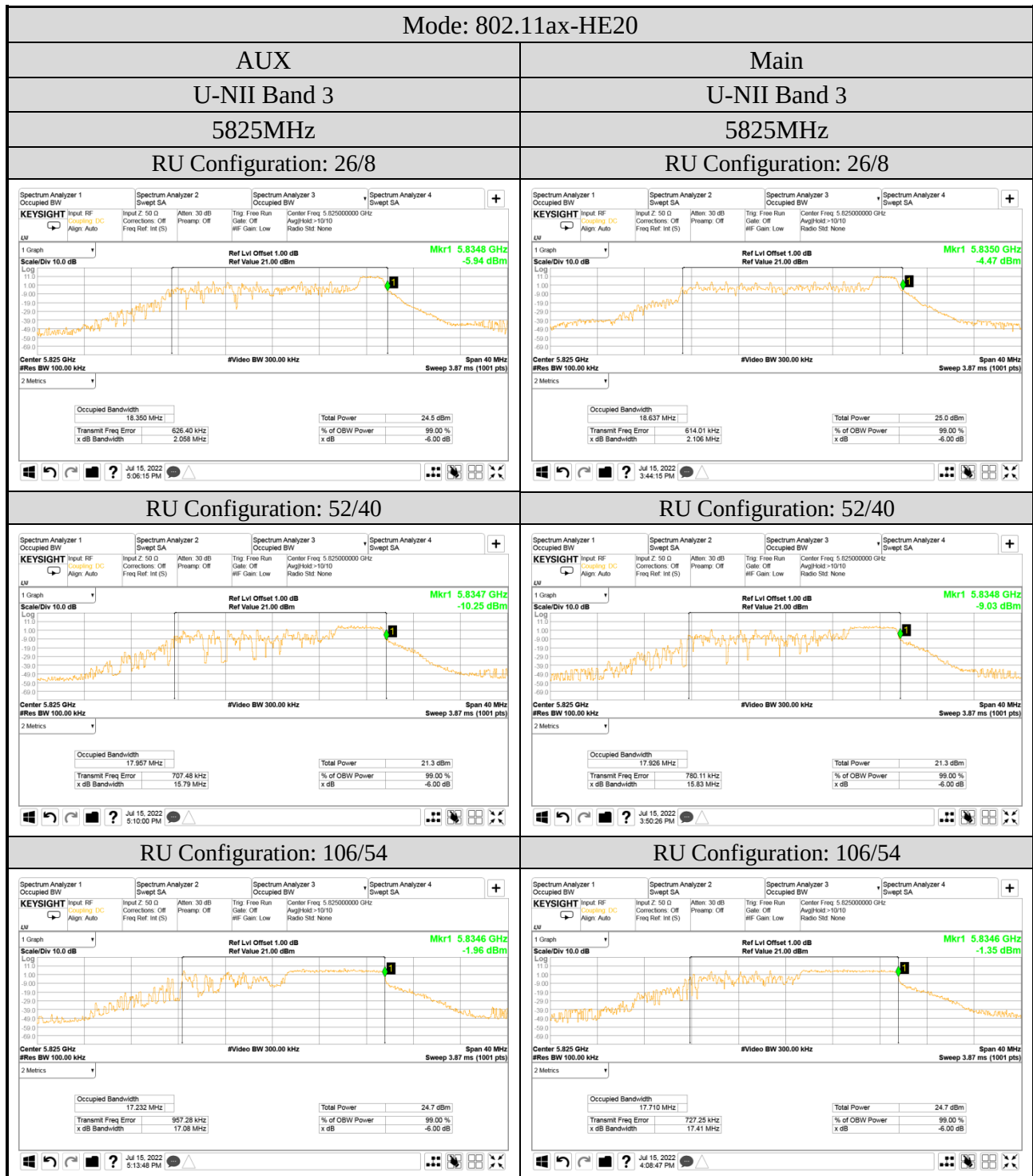
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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

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



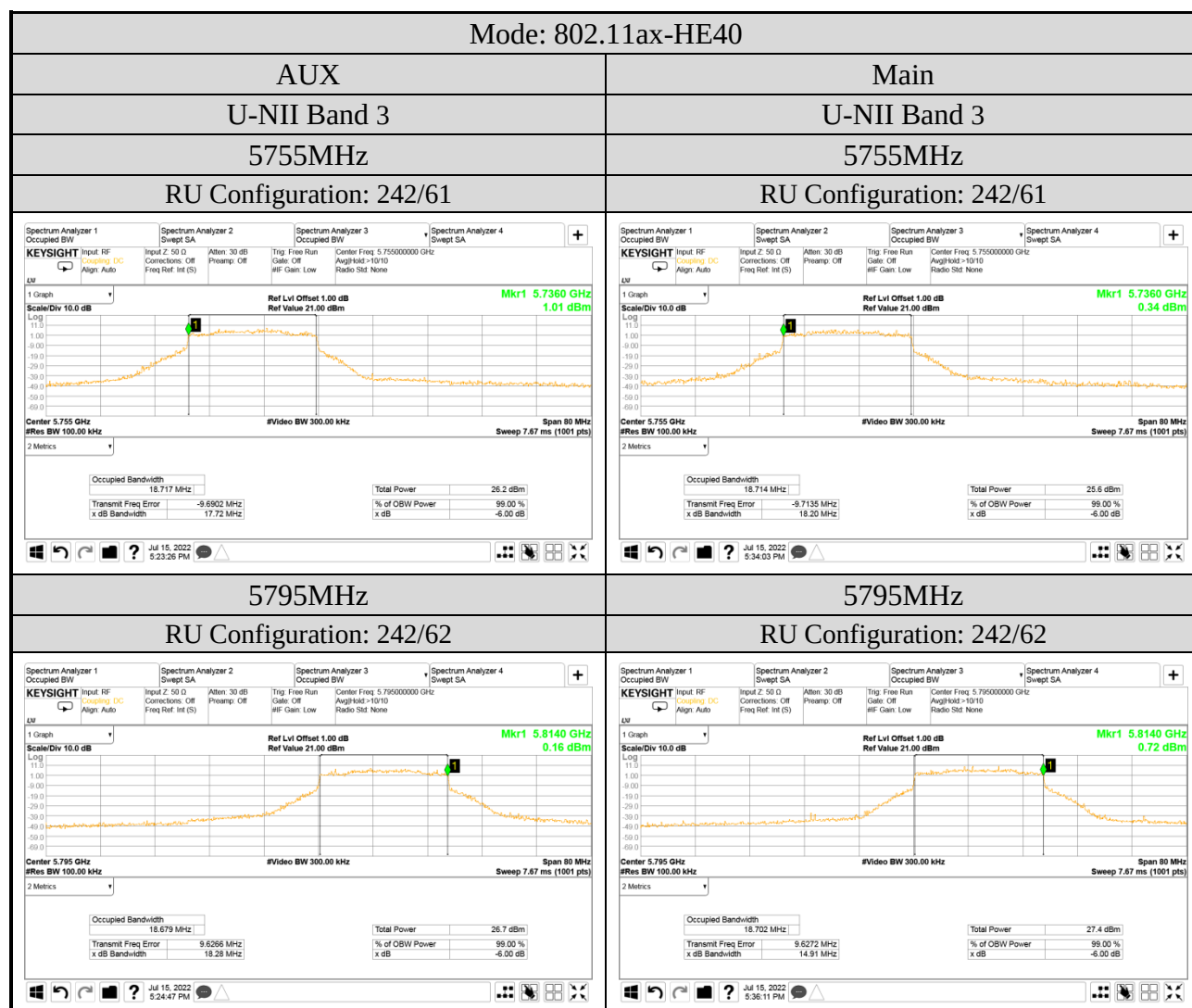
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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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



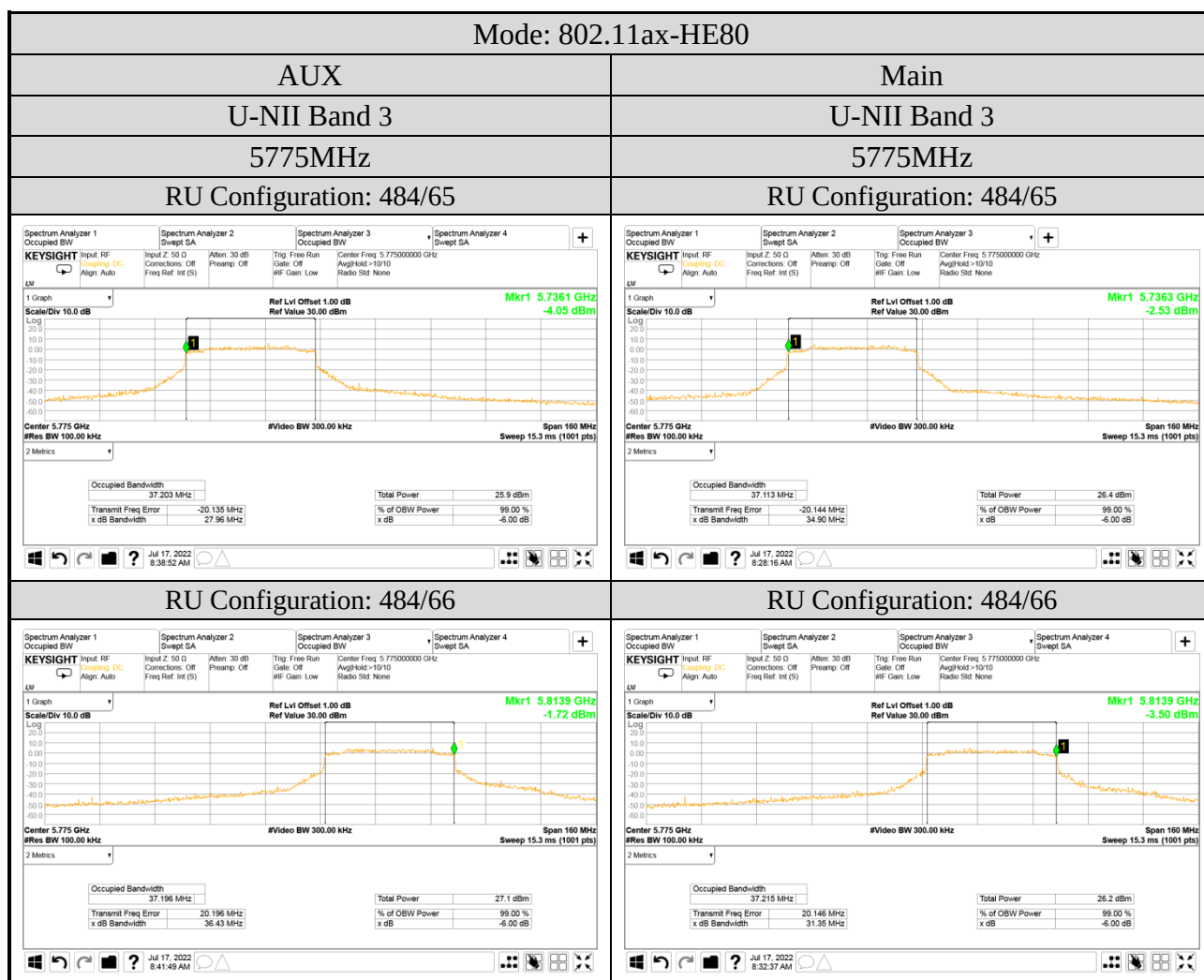
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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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



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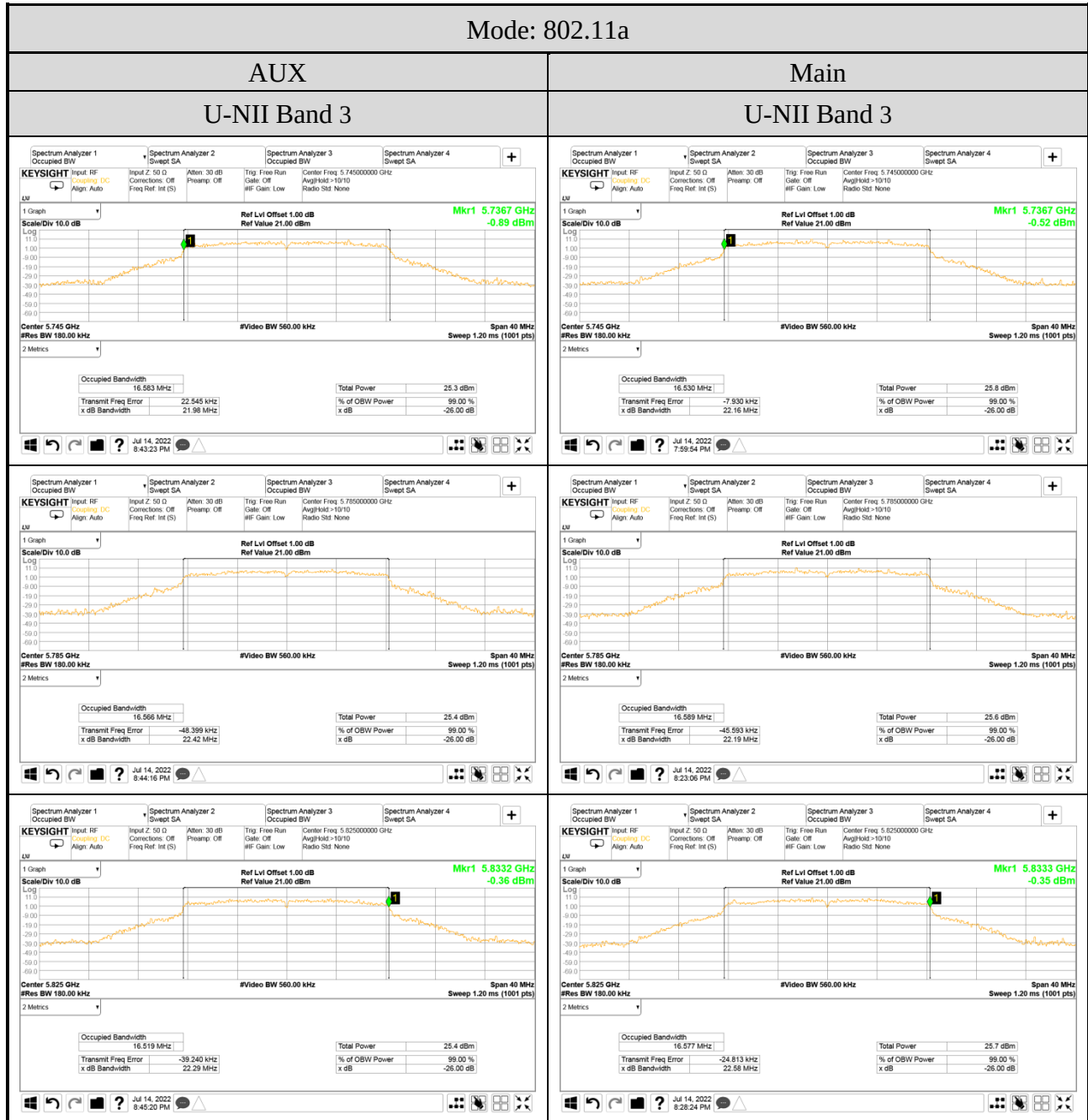
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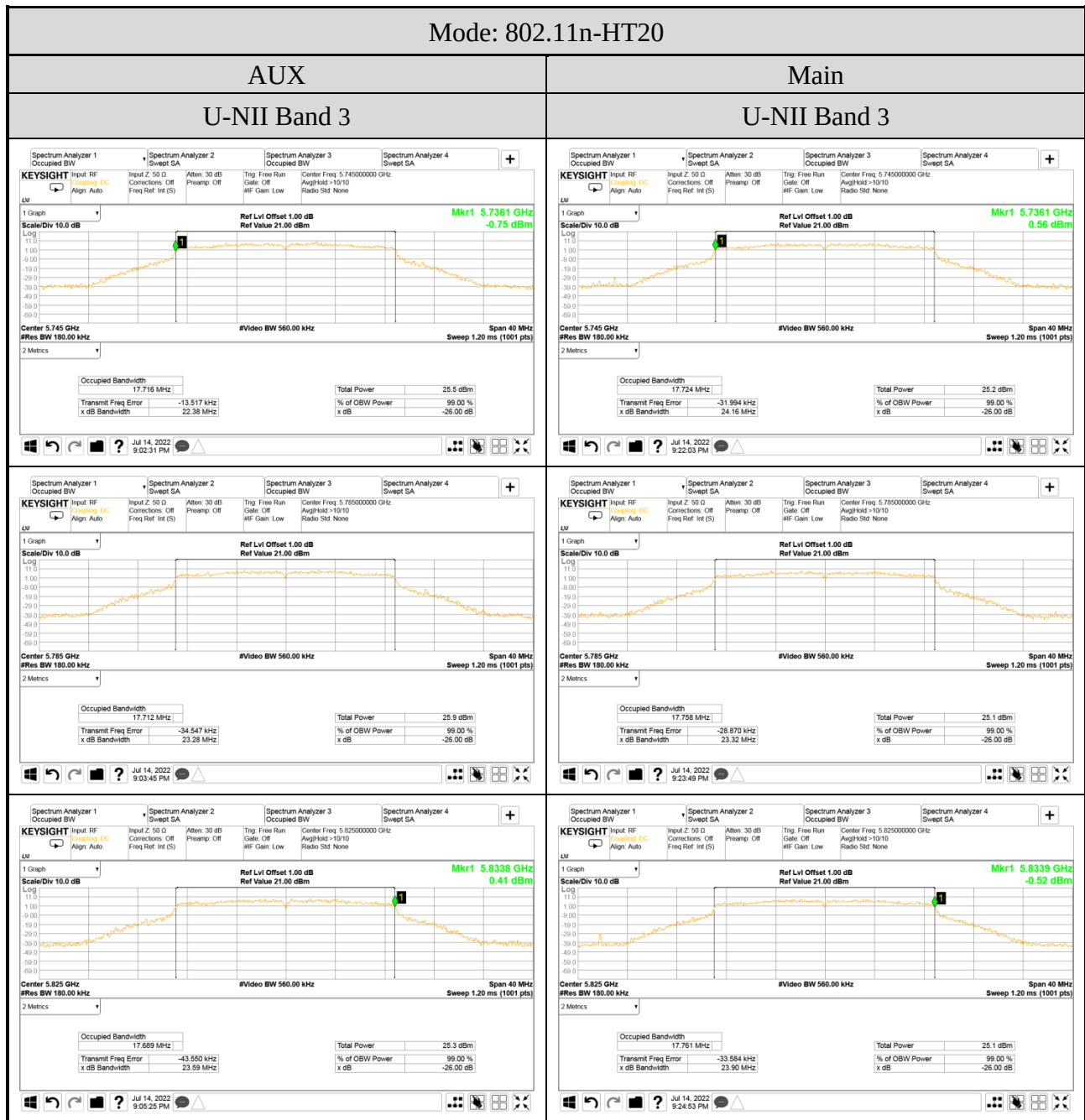
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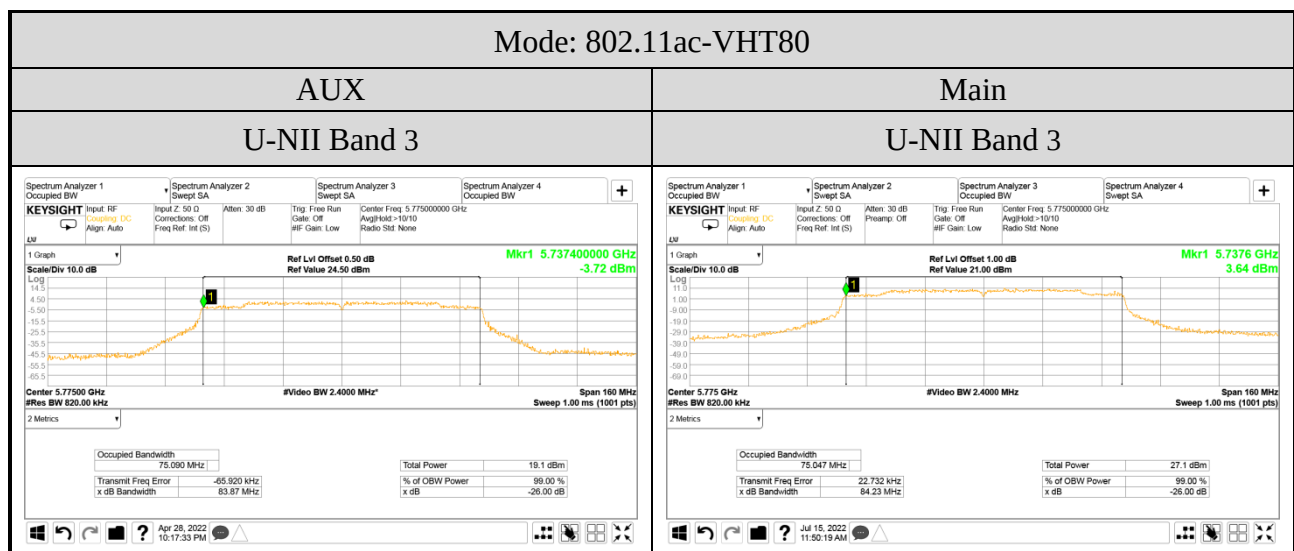
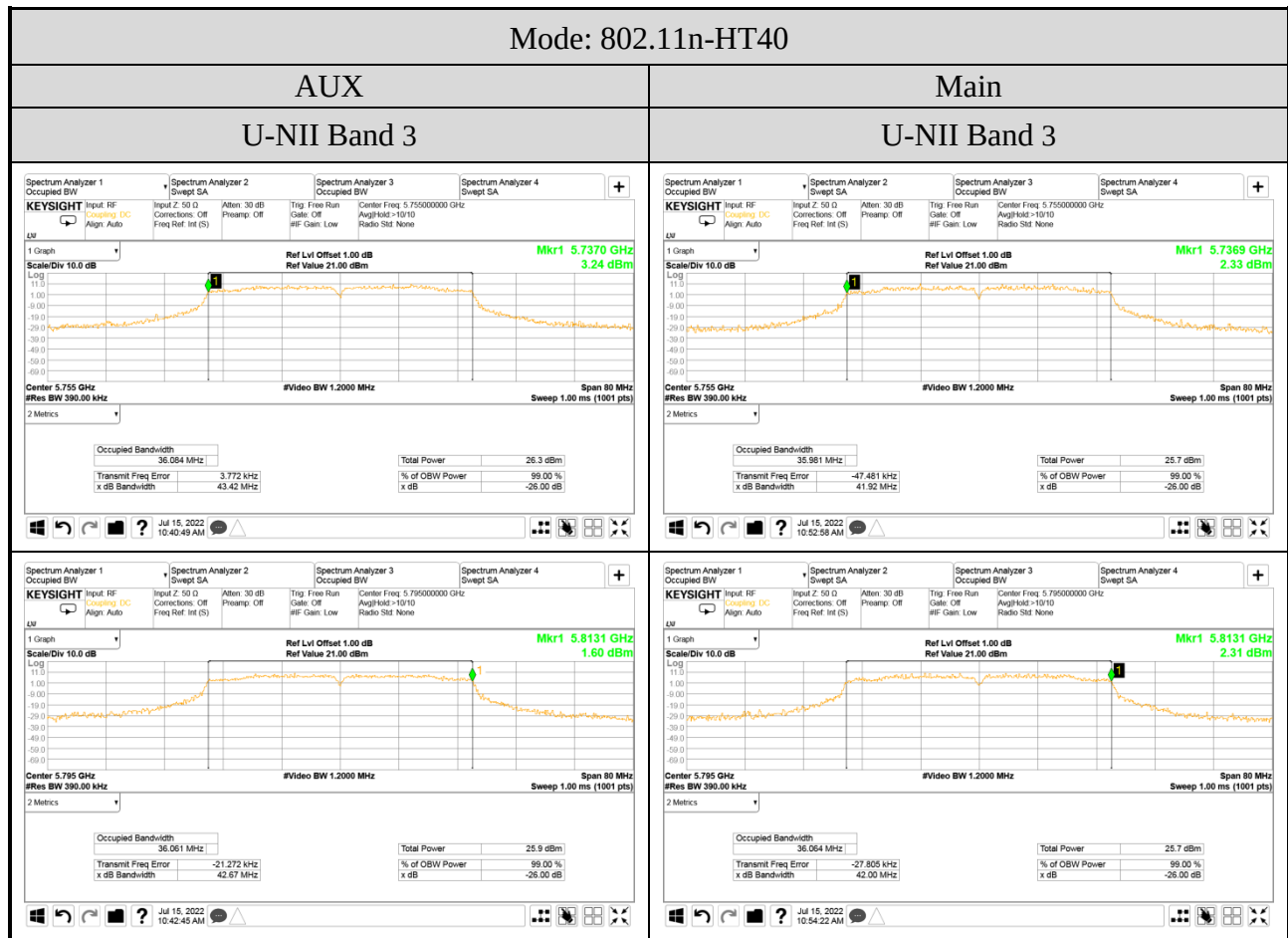
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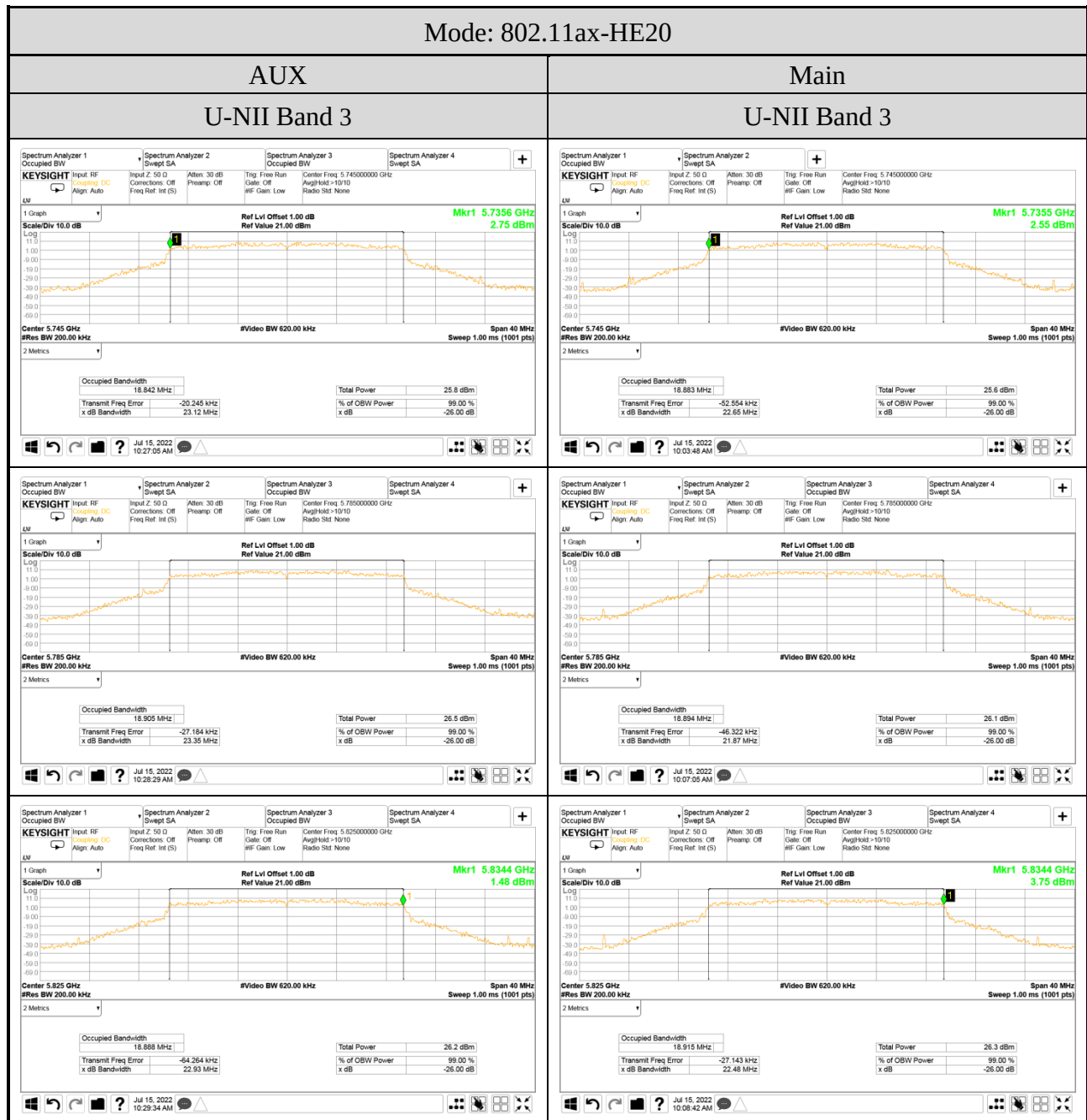


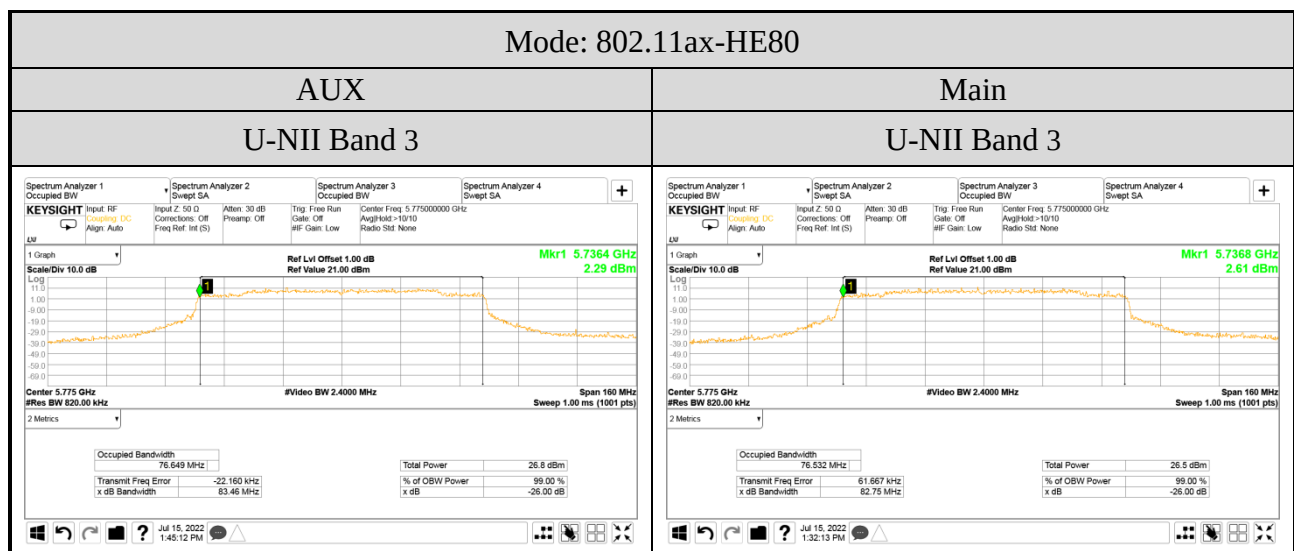
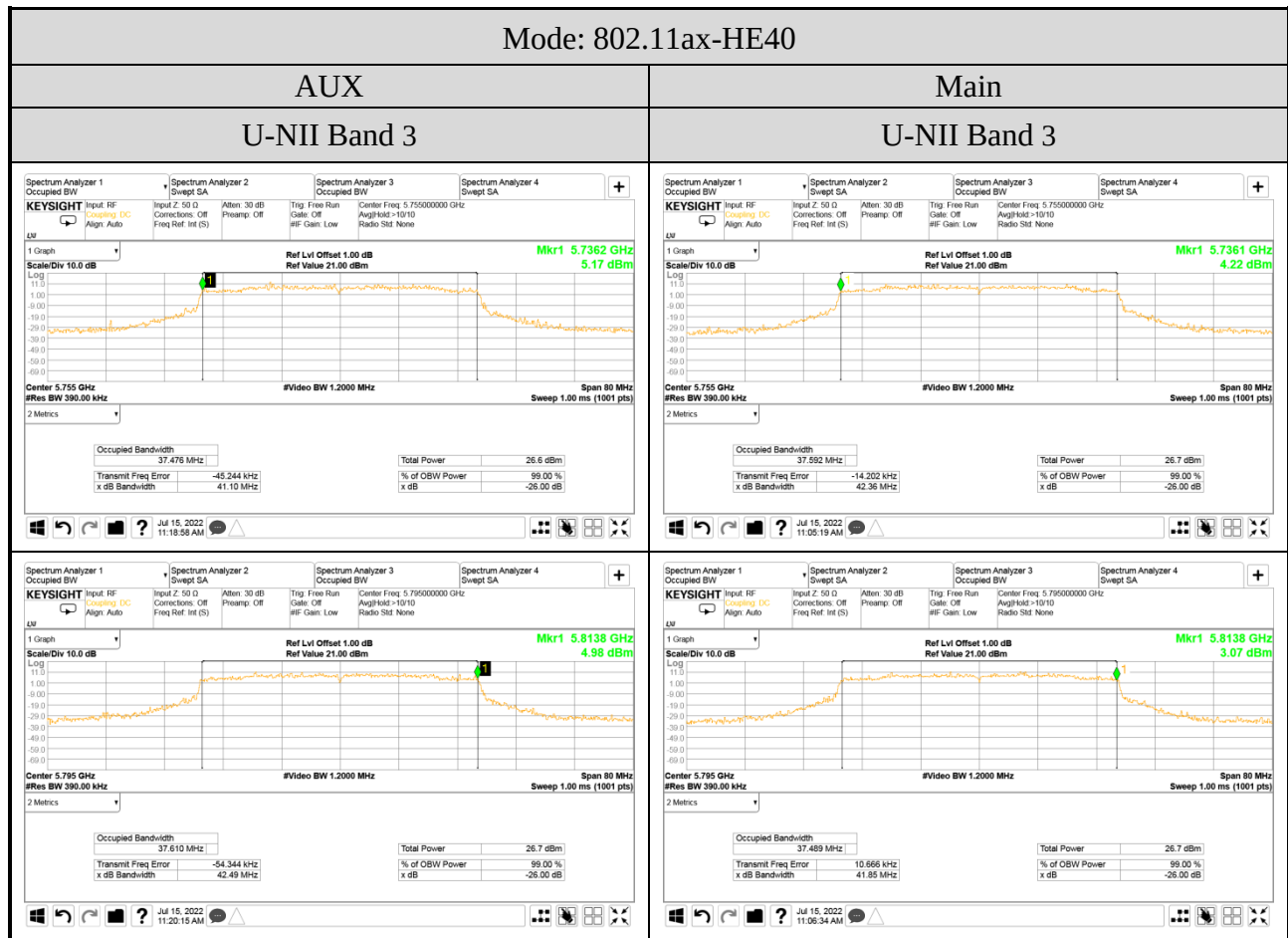
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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
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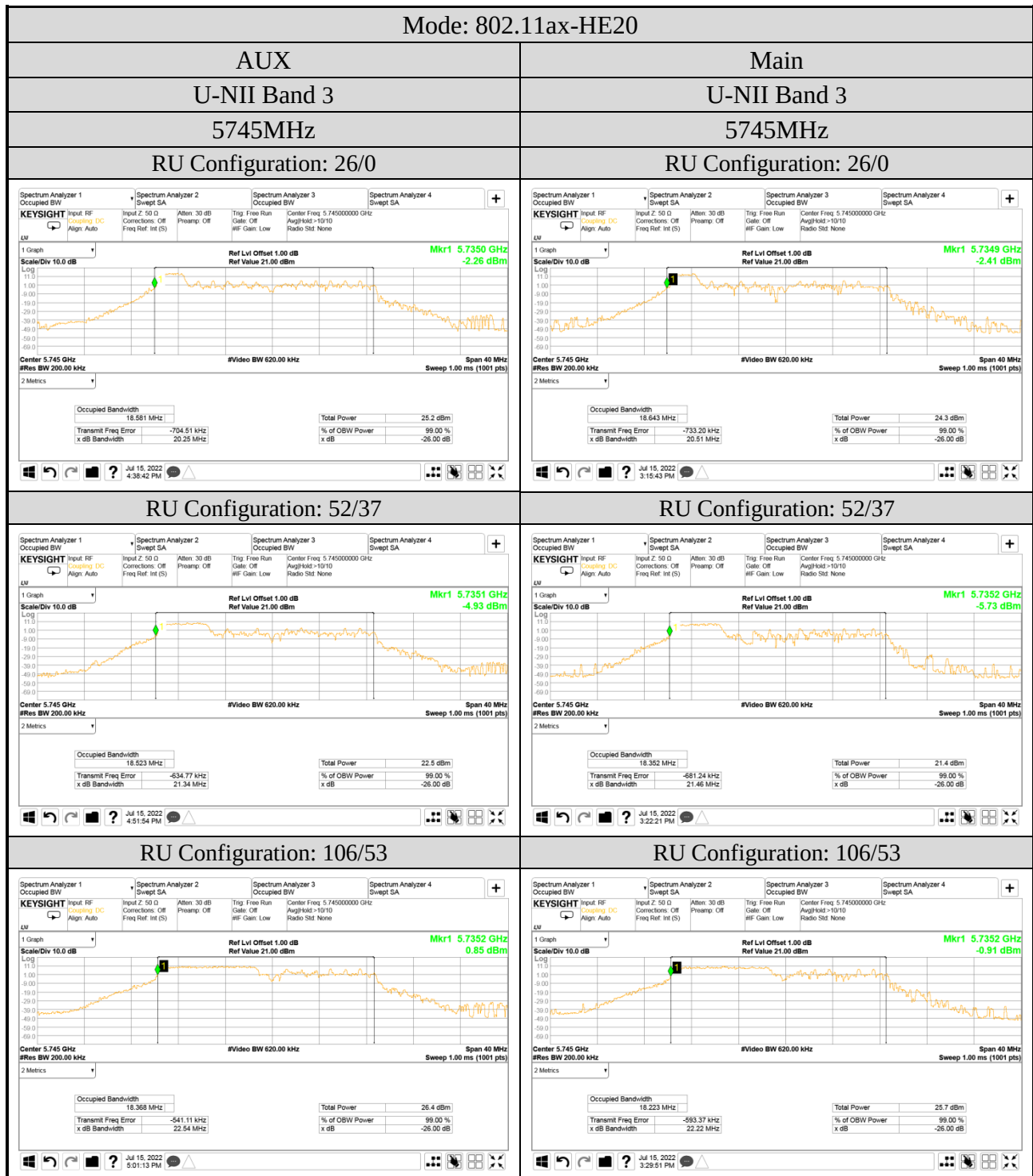






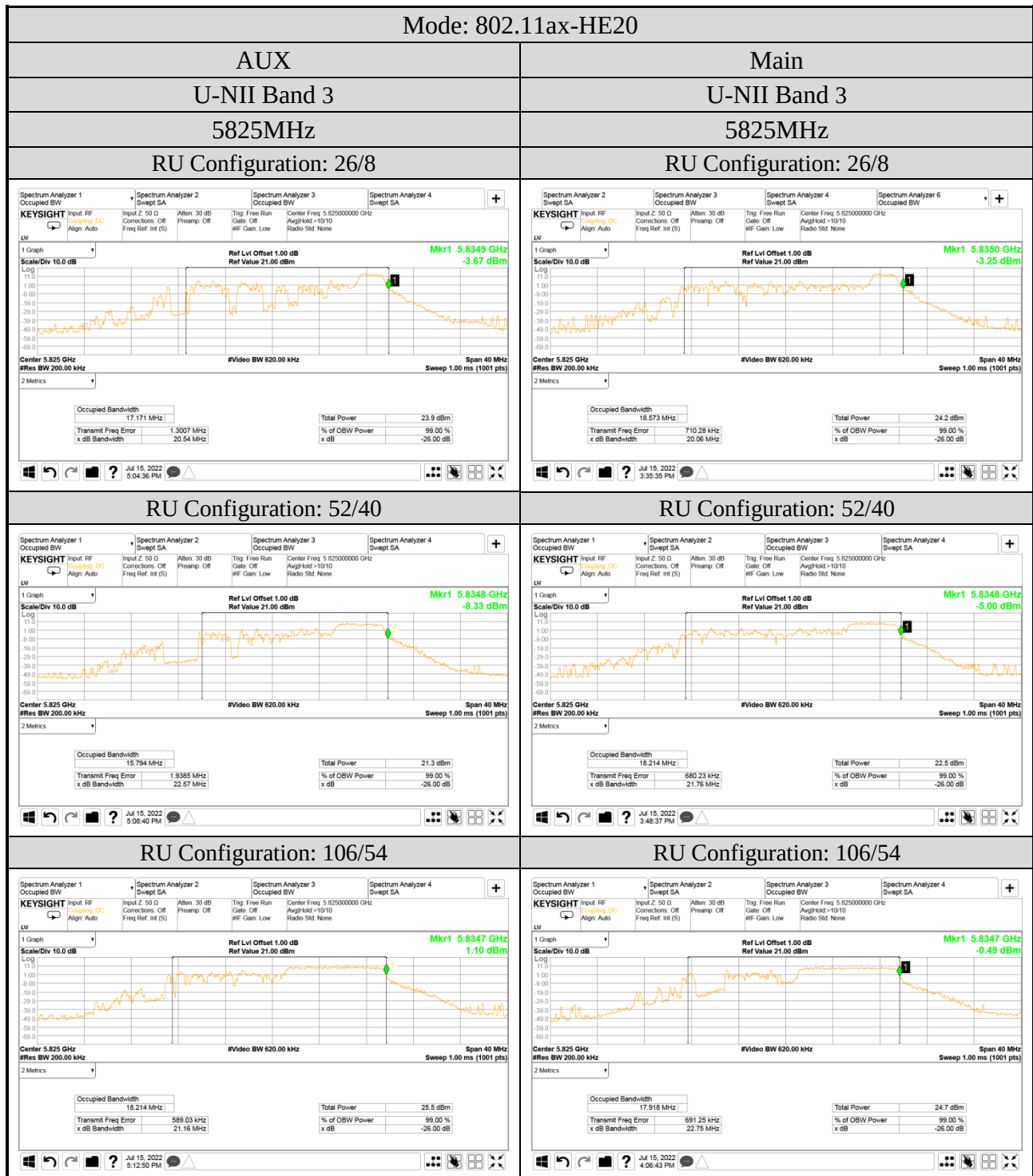
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New Taipei City 244, Taiwan

Tel: +886 2 26099301
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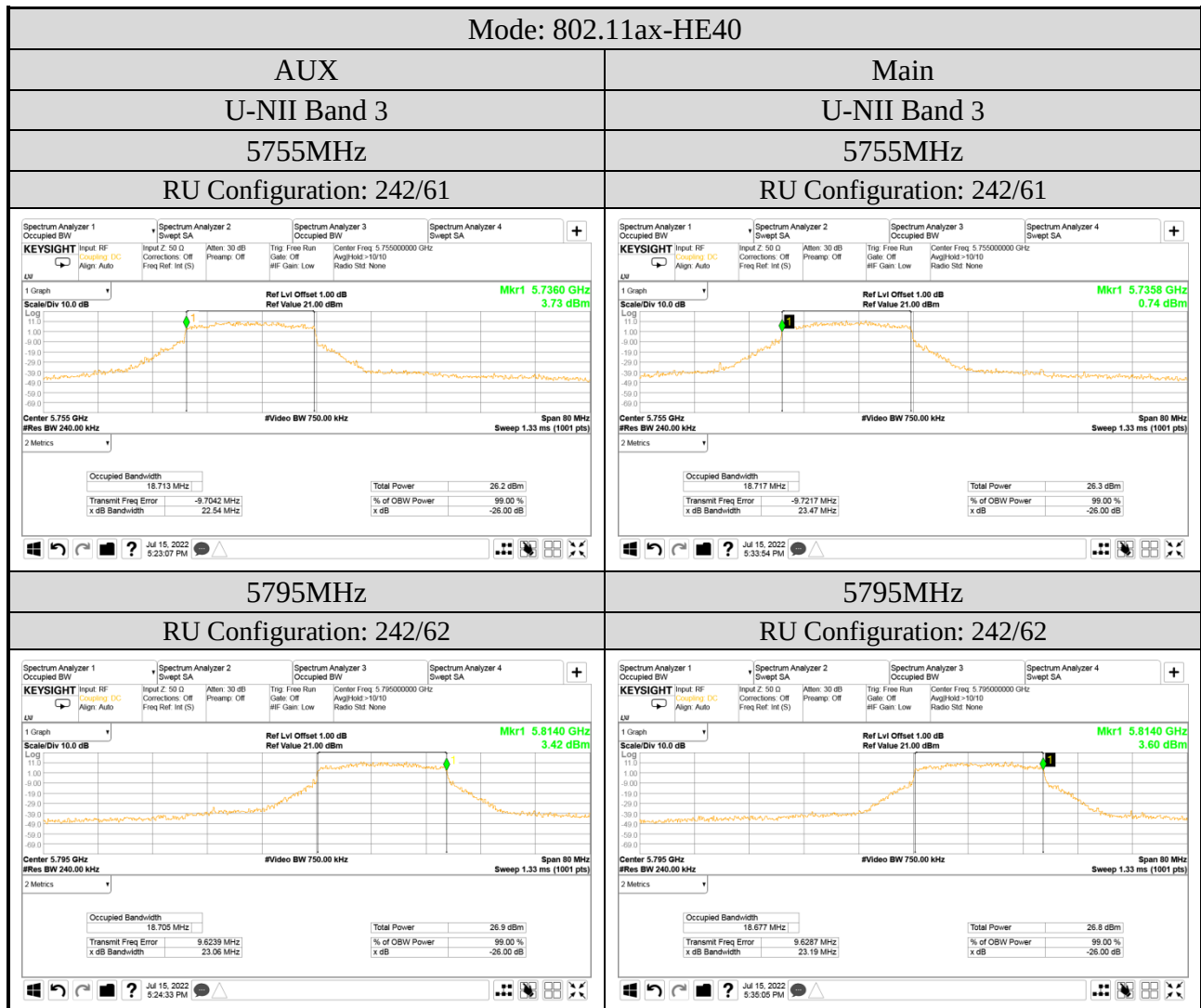
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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
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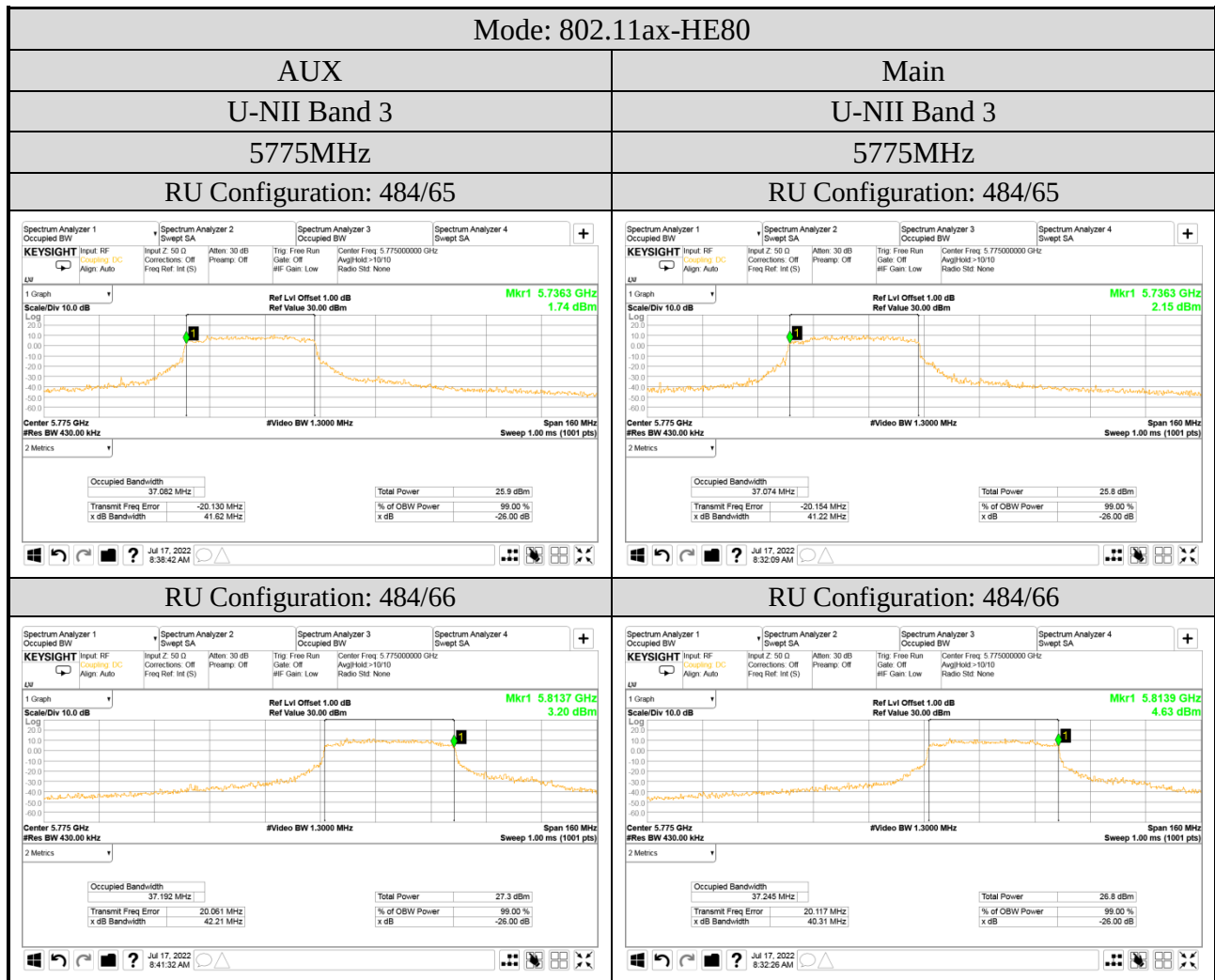
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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



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

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Fax: +886 2 26099303



A.4 POWER SPECTRAL DENSITY

Test Date	2022/07/14 ~ 17	Temp./Hum.	24 ~ 26°C/48 ~ 49%
Cable Loss	1.0dB	Tested By	Kuper Hsu
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	8.399	8.440	0.092	8.532	11 dBm/MHz
		5200	9.272	8.905		9.364	
		5240	8.902	8.953		9.045	
	2A	5260	8.998	8.954		9.090	
		5300	8.756	8.976		9.068	
		5320	8.354	7.755		8.446	
	2C	5500	8.911	8.432		9.003	
		5580	9.104	8.730		9.196	
		5700	8.324	8.090		8.416	
		5720	9.225	9.085		9.317	

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	7.280	7.656	0.092	7.748	30dBm/500 kHz
		5785	7.857	7.626		7.949	
		5825	7.797	7.161		7.889	

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%.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
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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)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11n-HT20	1	5180	6.284	6.205	N/A	9.255	11 dBm/MHz
		5200	7.114	7.025		10.080	
		5240	6.949	6.656		9.815	
	2A	5260	6.895	6.755		9.836	
		5300	6.814	6.683		9.759	
		5320	6.178	5.988		9.094	
	2C	5500	7.358	7.078		10.231	
		5580	7.104	6.823		9.976	
		5700	6.122	5.942		9.043	
		5720	7.863	7.765		10.825	

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	7.021	6.658	N/A	9.854	30dBm/500 kHz
		5785	7.561	6.944		10.274	
		5825	7.652	6.758		10.238	

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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No. 491, Zhongfu Rd., Linkou Dist.,
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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	1.555	1.817	N/A	4.698	11 dBm/MHz
		5230	5.952	6.068		9.021	
	2A	5270	5.763	5.961		8.873	
		5310	0.713	0.625		3.680	
	2C	5510	3.137	3.049		6.104	
		5550	6.104	5.769		8.950	
		5670	4.604	4.429		7.528	
		5710	3.317	3.070		6.206	

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	3.802	3.802	N/A	6.812	30dBm/500 kHz
		5795	4.327	4.346		7.347	

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			
802.11ac-VHT80	1	5210	-2.438	-2.357	N/A	0.613	11 dBm/MHz
	2A	5290	-2.281	-2.059		0.842	
	2C	5530	-1.439	-1.133		1.727	
		5610	2.874	2.751		5.823	
		5690	2.826	2.874		5.860	

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	-0.445	-0.397	N/A	2.589	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	-8.329	-8.591	N/A	-5.448	11 dBm/MHz
	2C	5570	-5.538	-5.179		-2.344	

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	6.191	6.307	N/A	9.260	11 dBm/MHz
		5200	6.919	7.239		10.092	
		5240	6.783	6.788		9.796	
	2A	5260	6.944	6.797		9.881	
		5300	6.702	6.484		9.605	
		5320	5.984	6.051		9.028	
	2C	5500	7.324	7.280		10.312	
		5580	7.223	6.869		10.060	
		5700	6.200	6.099		9.160	
		5720	7.696	7.648		10.682	

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	6.000	5.791	N/A	8.907	30dBm/500 kHz
		5785	6.386	6.388		9.397	
		5825	6.226	6.020		9.135	

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%.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
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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-HE40	1	5190	1.479	1.699	N/A	4.601	11 dBm/MHz
		5230	5.638	5.837		8.749	
	2A	5270	5.646	5.526		8.597	
		5310	0.515	0.323		3.430	
	2C	5510	3.021	3.031		6.036	
		5550	5.822	5.863		8.853	
		5670	4.245	4.159		7.213	
		5710	2.845	2.808		5.837	

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	2.658	2.503	N/A	5.591	30dBm/500 kHz
		5795	2.998	3.201		6.111	

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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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	-2.757	-2.681	N/A	0.291	11 dBm/MHz
	2A	5290	-2.581	-2.480		0.480	
	2C	5530	-1.780	-1.498		1.374	
		5610	2.473	2.881		5.692	
		5690	2.429	2.462		5.456	

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	-1.579	-1.405	N/A	1.519	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	-8.514	-8.565	N/A	-5.529	11 dBm/MHz
	2C	5570	-5.659	-5.144		-2.384	

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%.

Audix Technology Corp.
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				AUX	Main			
802.11ax-HE20	1	5180	26/0	7.254	7.001	N/A	10.140	11 dBm/MHz
			52/37	7.897	7.901		10.909	
			106/53	7.587	7.629		10.618	
	2A	5320	26/8	7.039	6.364		9.725	
			52/40	7.538	7.240		10.402	
			106/54	6.502	6.555		9.539	
	2C	5500	26/0	7.105	6.877		10.003	
			52/37	7.814	7.902		10.869	
			106/53	6.422	6.583		9.514	
		5700	26/8	6.566	6.037		9.320	
			52/40	7.003	6.846		9.936	
			106/54	7.035	6.685		9.874	

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	9.583	9.693	N/A	12.649	30dBm/500 kHz
			52/37	4.657	3.918		7.313	
			106/53	5.593	5.497		8.556	
		5825	26/8	9.890	9.613		12.764	
			52/40	4.303	4.172		7.248	
			106/54	5.607	5.037		8.342	

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)	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-HE40	1	5190	242/61	5.845	5.895	N/A	8.880	11 dBm/MHz
	2A	5310	242/62	4.464	4.222		7.355	
	2C	5510	242/61	6.879	7.003		8.761	
		5670	242/62	6.608	6.222		9.430	

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	5.706	5.632	N/A	8.679	30dBm/500 kHz
		5795	242/62	6.121	5.776		8.962	

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	1.054	1.124	N/A	4.099	11 dBm/MHz
	2A	5290	484/66	-2.200	-2.358		0.732	
	2C	5530	484/65	0.857	0.897		3.887	
		5610	484/66	4.519	4.332		7.437	

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	1.808	1.638	N/A	4.734	30dBm/500 kHz
		5775	484/66	2.752	2.276		5.531	

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	2.779	-2.694	N/A	3.863	11 dBm/MHz
			996/S67	-4.688	-5.088		-1.873	
	2C	5570	996/67	-2.952	-2.589		0.244	
			996/S67	0.838	0.851		3.855	

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%.