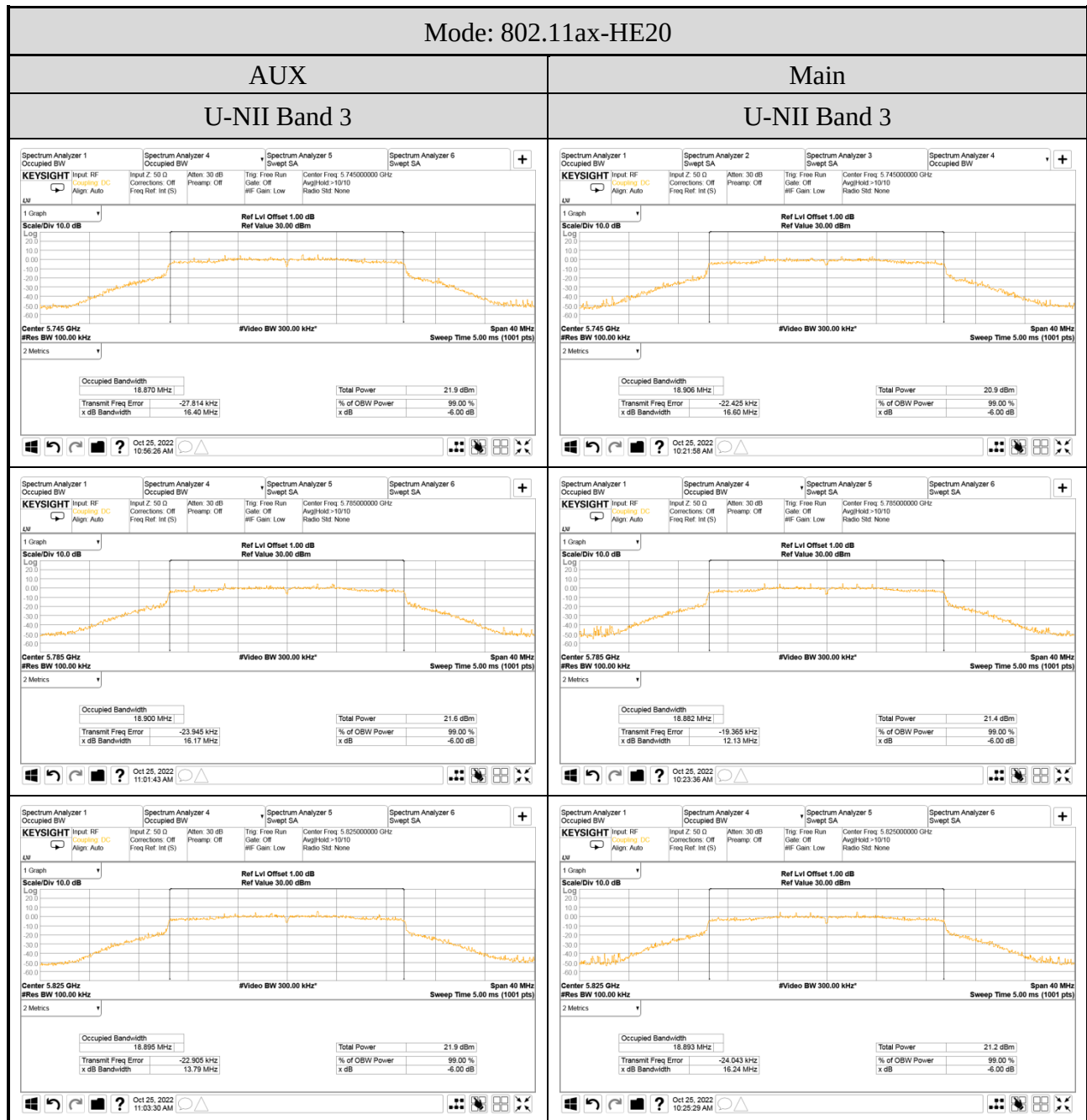
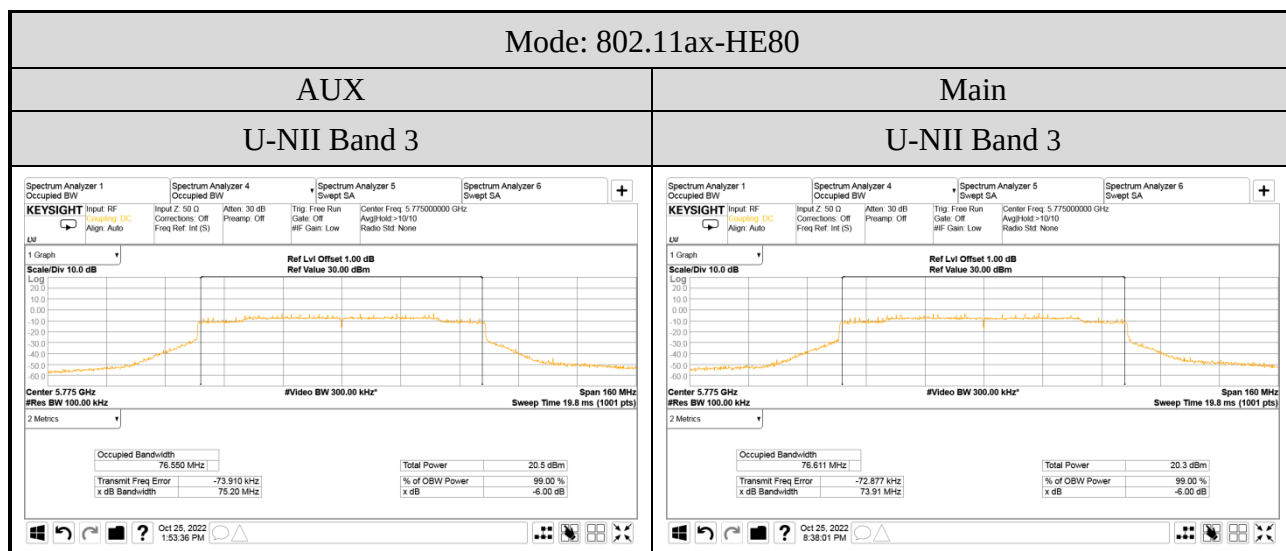
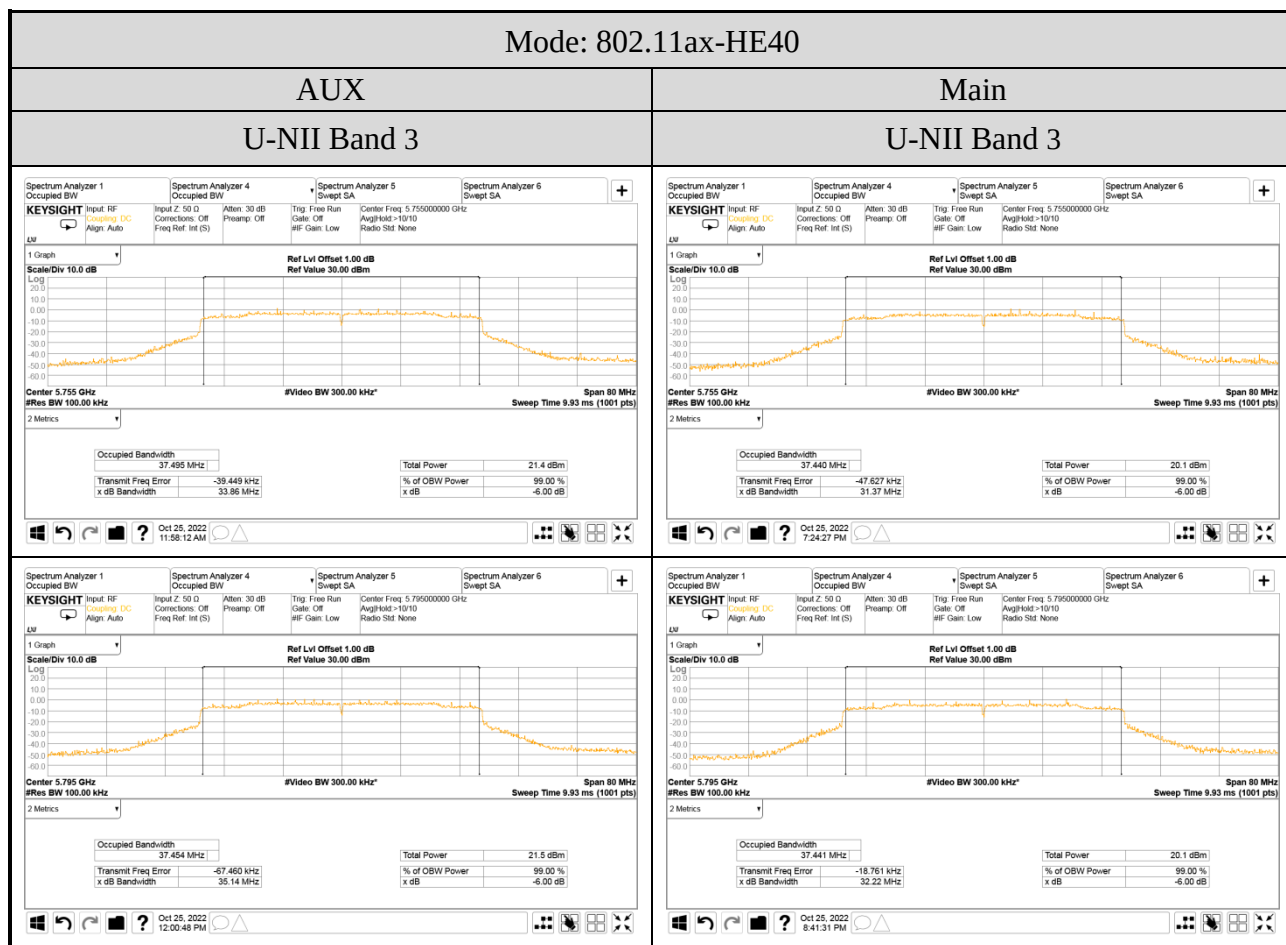


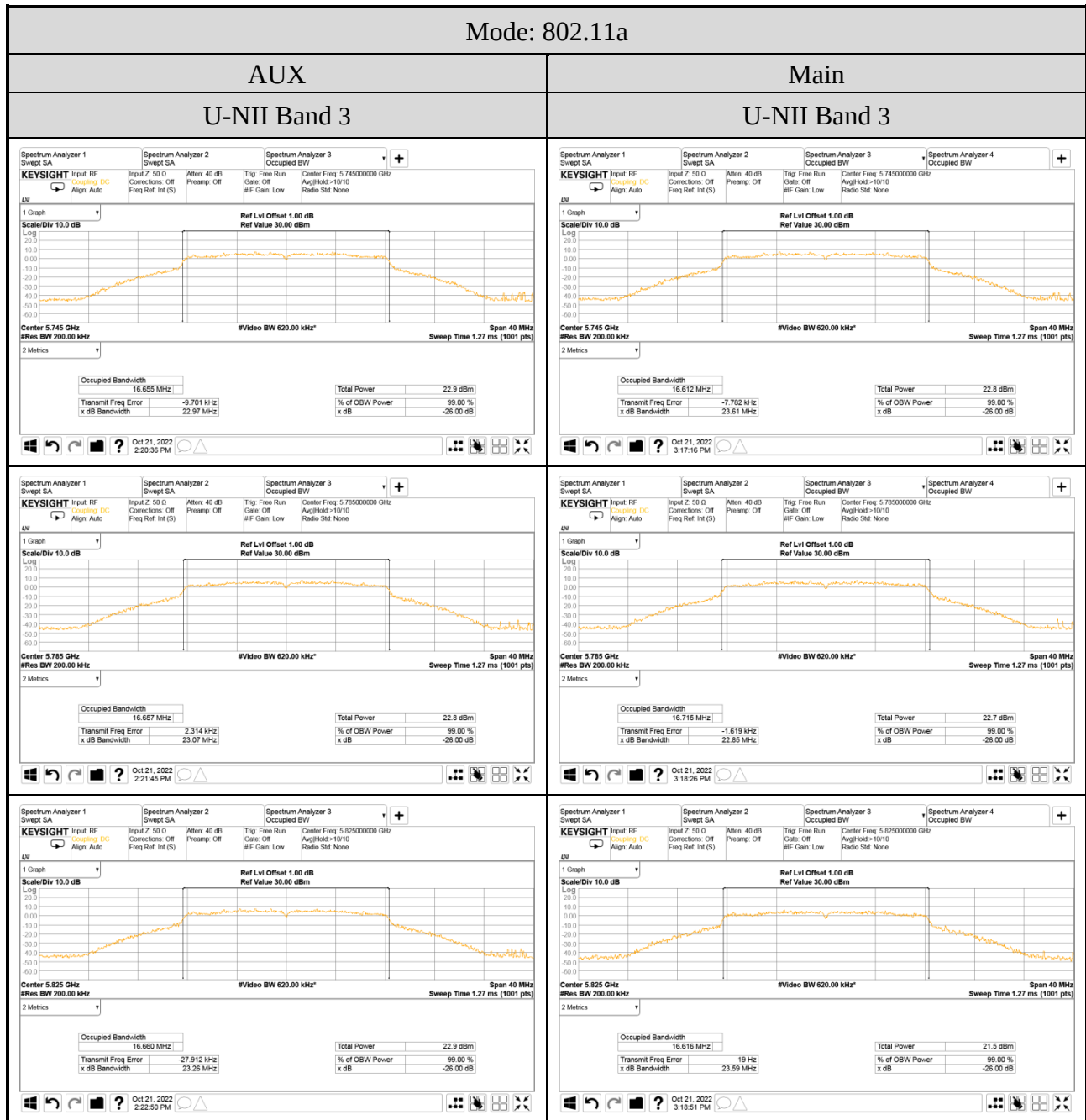


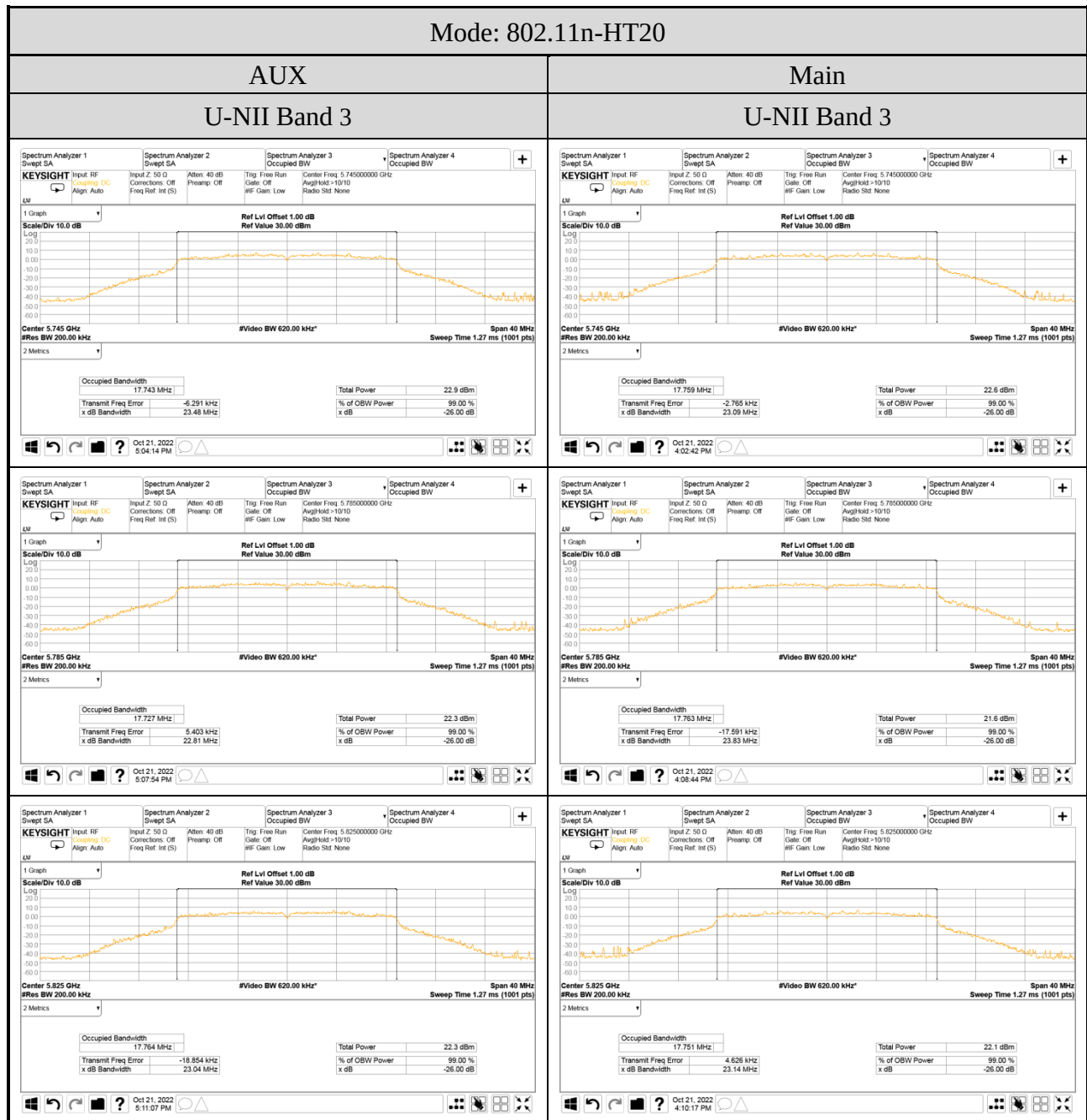


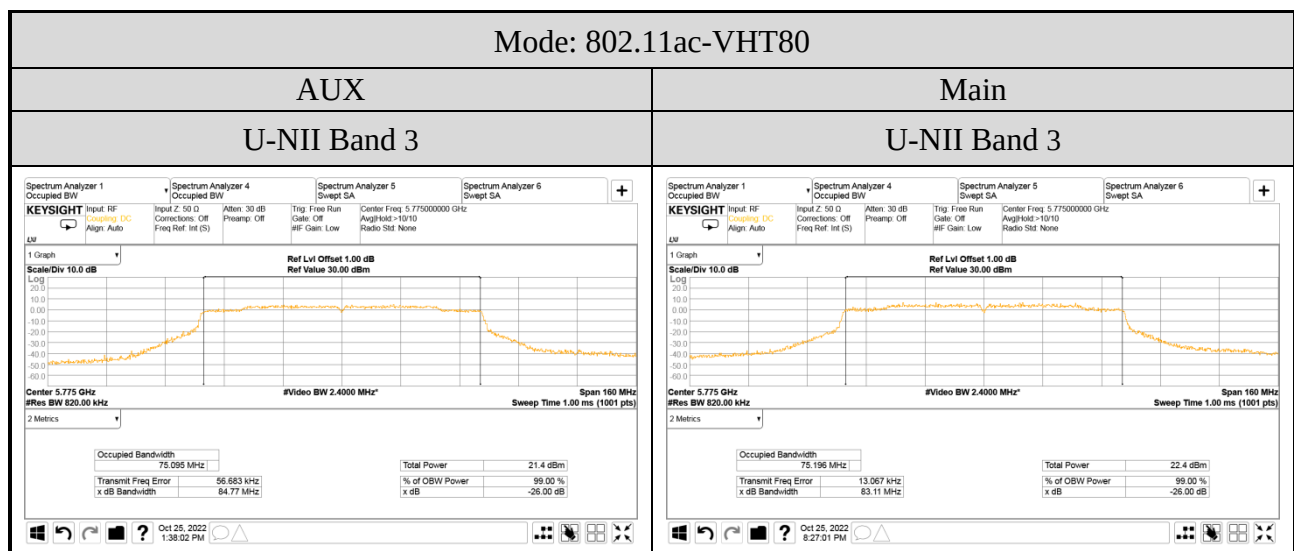
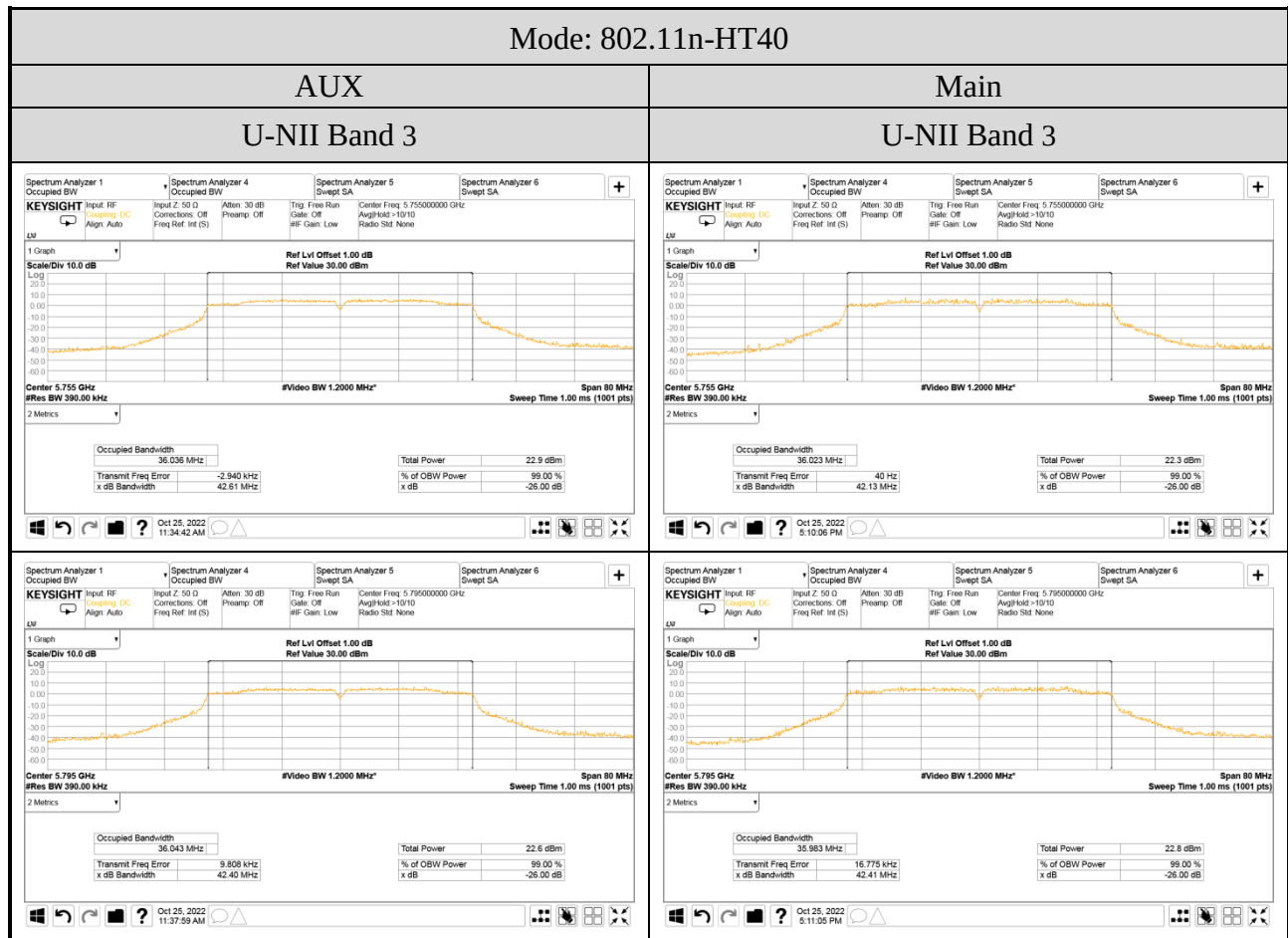
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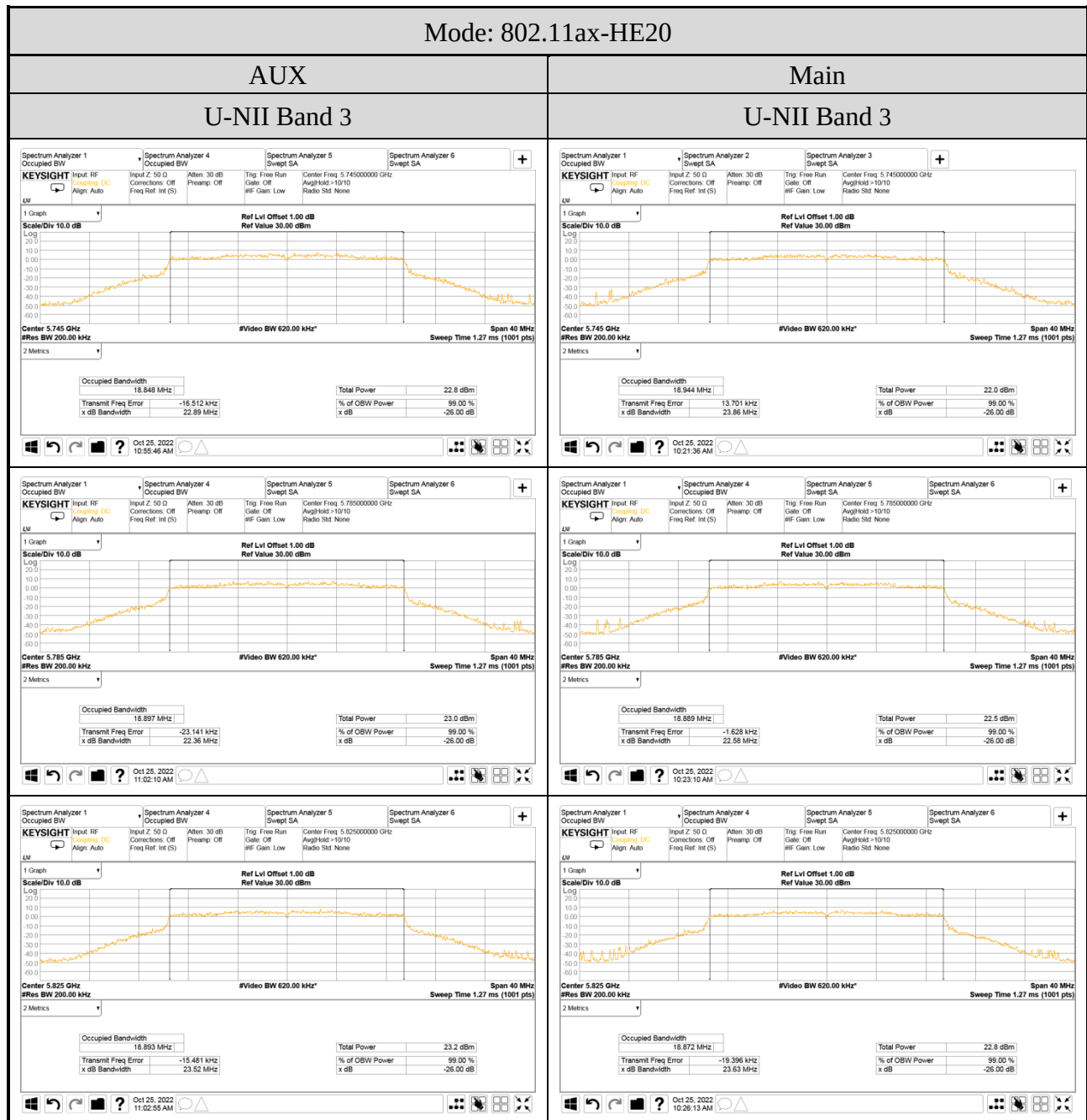
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Fax: +886 2 26099303

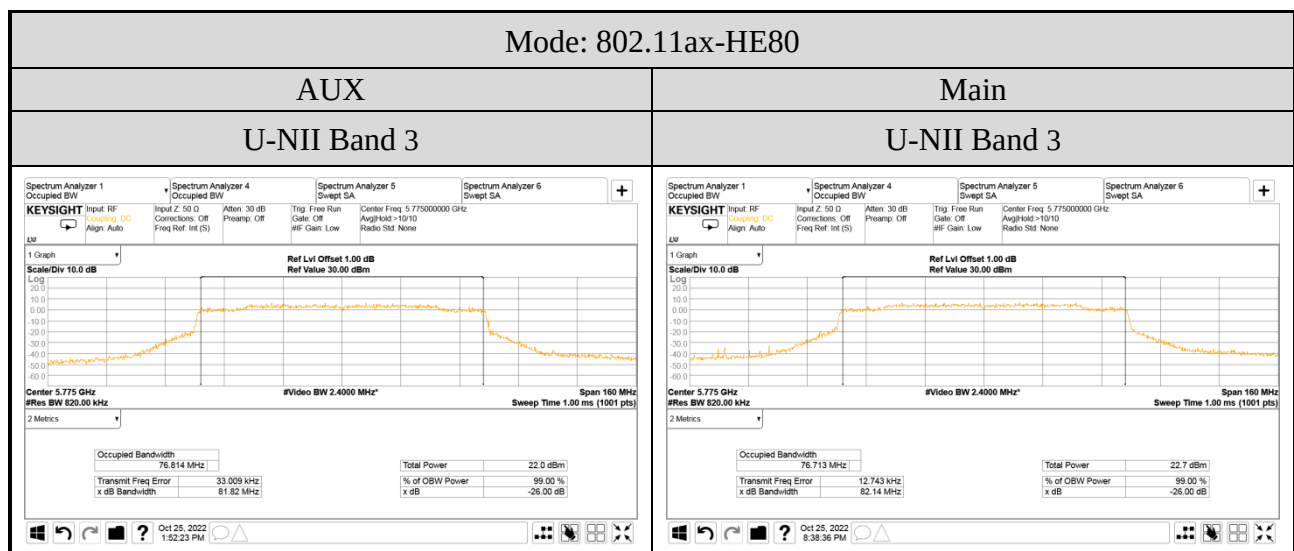
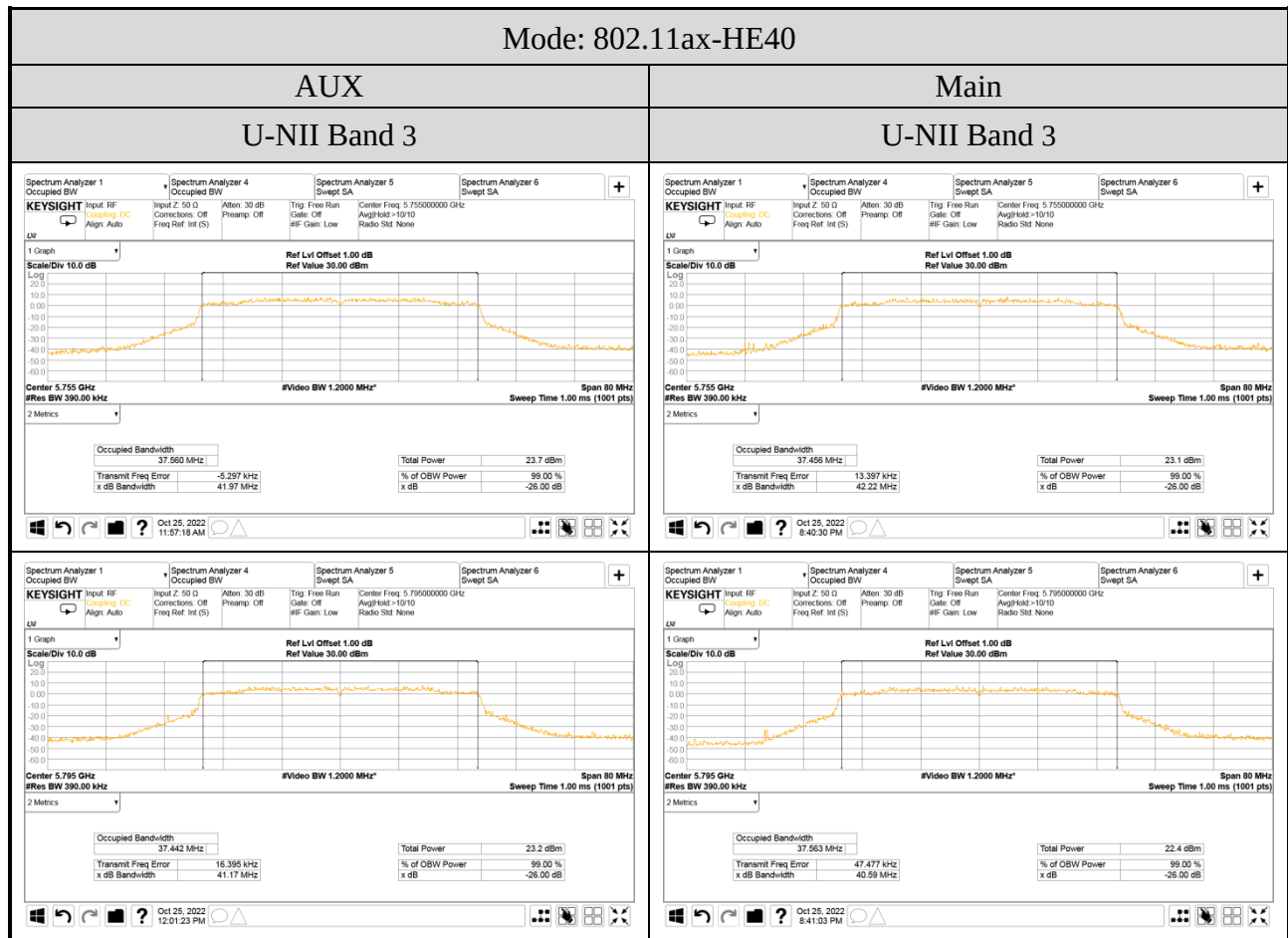
- For Occupied (99%) Bandwidth











A.4 POWER SPECTRAL DENSITY

Test Date	2022/10/21 ~ 27	Temp./Hum.	23 ~ 24°C/58 ~ 63%
Cable Loss	1.0dB	Tested By	Brian Hsieh
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	6.046	6.043	0.101	6.147	11 dBm/MHz
		5200	6.063	5.990		6.164	
		5240	5.980	5.990		6.091	
	2A	5260	5.766	5.789		5.890	
		5300	5.417	5.476		5.577	
		5320	5.163	5.351		5.452	
	2C	5500	5.043	5.125		5.226	
		5580	5.830	5.712		5.931	
		5700	6.126	5.919		6.227	
		5720	6.019	6.107		6.208	

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	4.232	4.286	0.101	4.387	30dBm/500 kHz
		5785	4.212	4.232		4.333	
		5825	4.398	3.753		4.499	

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%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

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

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			
802.11n-HT20	1	5180	5.446	5.641	N/A	8.555	11 dBm/MHz
		5200	5.453	5.549		8.512	
		5240	5.565	5.497		8.541	
	2A	5260	5.098	5.331		8.226	
		5300	4.787	4.863		7.835	
		5320	4.603	5.030		7.832	
	2C	5500	4.608	4.837		7.734	
		5580	5.312	5.278		8.305	
		5700	5.687	5.476		8.593	
		5720	5.653	5.789		8.732	

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	3.890	3.826	N/A	6.868	30dBm/500 kHz
		5785	3.679	3.552		6.626	
		5825	3.801	3.278		6.558	

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%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

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

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			
802.11n-HT40	1	5190	1.084	1.251	N/A	4.179	11 dBm/MHz
		5230	2.798	2.858		5.838	
	2A	5270	2.491	2.538		5.525	
		5310	1.956	2.260		5.121	
	2C	5510	1.847	2.127		5.000	
		5550	2.507	2.401		5.465	
		5670	2.696	2.582		5.650	
		5710	2.854	2.840		5.857	

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	0.574	0.760	N/A	3.678	30dBm/500 kHz
		5795	1.048	0.770		3.922	

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)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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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			
802.11ac-VHT80	1	5210	-2.914	-2.887	N/A	0.110	11 dBm/MHz
	2A	5290	-2.507	-2.414		0.550	
	2C	5530	-2.491	-2.437		0.546	
		5610	2.344	-0.244		4.250	
		5690	-0.698	-0.166		2.586	

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	-3.178	-2.573	N/A	0.145	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	-8.881	-8.976	N/A	-5.918	11 dBm/MHz
	2C	5570	-5.983	-5.643		-2.799	

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%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

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

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-HE20	1	5180	5.656	5.790	N/A	8.734	11 dBm/MHz
		5200	5.619	5.536		8.588	
		5240	5.617	5.672		8.655	
	2A	5260	5.492	5.579		8.546	
		5300	5.012	5.232		8.134	
		5320	4.902	5.397		8.167	
	2C	5500	4.934	5.415		8.191	
		5580	5.757	5.459		8.621	
		5700	5.975	5.493		8.751	
		5720	6.172	5.690		8.948	

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	2.731	2.531	N/A	5.642	30dBm/500 kHz
		5785	3.320	2.766		6.062	
		5825	3.055	2.606		5.847	

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%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

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

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	0.711	0.802	N/A	3.767	11 dBm/MHz
		5230	2.358	2.597		5.489	
	2A	5270	2.146	1.992		5.080	
		5310	1.690	2.087		4.903	
	2C	5510	1.438	1.924		4.698	
		5550	2.231	2.218		5.235	
		5670	2.117	2.643		5.398	
		5710	2.372	2.344		5.368	

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	-0.391	-0.708	N/A	2.464	30dBm/500 kHz
		5795	-0.295	-0.749		2.494	

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%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

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

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	-3.372	-2.894	N/A	-0.116	11 dBm/MHz
	2A	5290	-3.110	-2.561		0.183	
	2C	5530	-2.941	-2.446		0.324	
		5610	-0.354	-0.369		2.649	
		5690	-0.680	-0.435		2.455	

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	-3.714	-3.665	N/A	-0.679	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	-9.053	-9.295	0.092	-6.070	11 dBm/MHz
	2C	5570	-5.966	-6.071		-2.916	

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%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

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

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

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-HE20	1	5180	26/0	6.479	7.133	0.164	9.993	11 dBm/MHz
			52/37	7.176	7.613	0.146	10.556	
			106/53	7.221	6.893	N/A	10.070	
	2A	5320	26/8	5.625	5.967	0.164	8.974	
			52/40	6.312	6.340	0.146	9.482	
			106/54	6.113	6.095	N/A	9.114	
	2C	5500	26/0	5.216	5.171	0.164	8.368	
			52/37	6.426	6.003	0.146	9.376	
			106/53	5.397	5.400	N/A	8.409	
		5700	26/8	6.092	6.374	0.164	9.410	
			52/40	6.904	7.101	0.146	10.160	
			106/54	7.290	7.001	N/A	10.158	

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	9.636	9.273	0.164	12.633	30dBm/500 kHz
			52/37	3.961	4.359	0.146	7.321	
			106/53	5.851	5.654	N/A	8.764	
		5825	26/8	10.243	9.347	0.164	12.992	
			52/40	4.373	3.986	0.146	7.340	
			106/54	5.545	4.916	N/A	8.252	

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%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

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

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

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	4.951	5.055	0.164	8.178	11 dBm/MHz
	2A	5310	242/62	3.973	4.101		7.212	
	2C	5510	242/61	4.338	4.679		7.395	
		5670	242/62	6.121	6.145		9.307	

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	2.896	2.529	0.164	5.891	30dBm/500 kHz
		5795	242/62	3.453	3.045		6.428	

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	-0.240	-0.295	0.092	2.835	11 dBm/MHz
	2A	5290	484/66	-2.718	-3.066		0.214	
	2C	5530	484/65	0.214	-0.153		3.137	
		5610	484/66	2.708	2.286		5.604	

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	-0.598	1.150	0.092	3.466	30dBm/500 kHz
		5775	484/66	-0.407	1.734		3.896	

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	-3.243	-3.534	0.177	-0.199	11 dBm/MHz
			996/S67	-5.650	-5.419		-2.346	
	2C	5570	996/67	-3.582	-3.815		-0.510	
			996/S67	-0.496	-0.902		2.493	

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

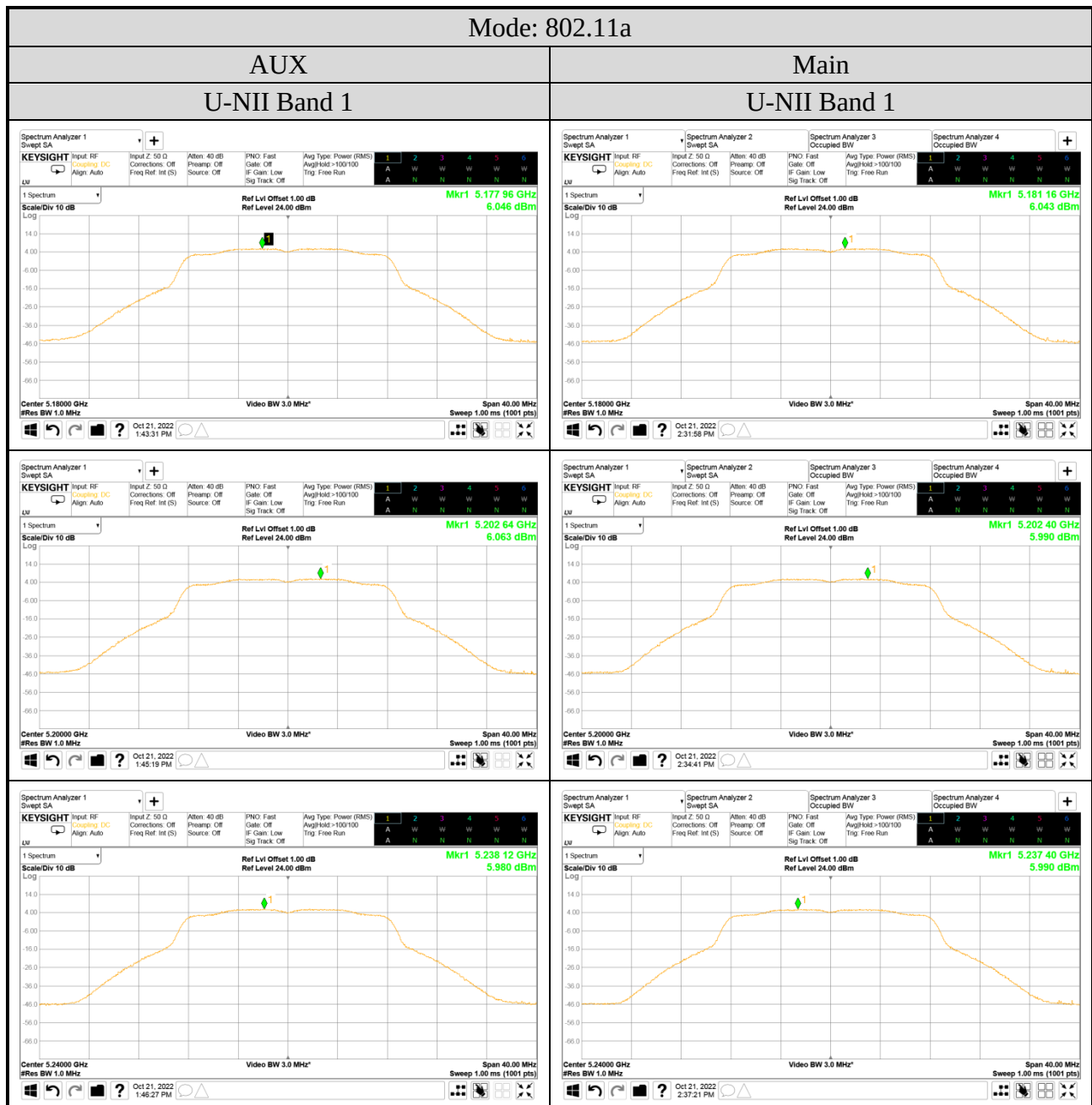
2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum of 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 of individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

5. For U-NII Band 3, Ref Offset of measured plot : Cable Loss (dB) + BWCF (dB) =1dB+7dB=8dB

A.4.2 Measurement Plots



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

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

