

A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED

BANDWIDTH

Test Date	2022/10/27~12/01	Temp./Hum.	21 ~ 23°C/58 ~ 64%
Cable Loss	1.0dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Average Output Power and Emission/Occupied Bandwidth

Mode 802.11a	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Max Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5180	23.06	23.40	16.592	16.706	17.07	17.42	N/A	24	N/A	
	5200	23.21	22.31	16.662	16.585	17.33	17.00				
	5240	22.72	21.48	16.634	16.516	16.83	16.99				
U-NII Band 2A	5260	23.51	23.48	16.672	16.629	16.87	17.07	N/A	24	24.71	
	5300	22.14	23.53	16.626	16.592	16.93	17.10			24.45	
	5320	22.80	22.32	16.550	16.583	17.27	17.37			24.49	
U-NII Band 2C	5500	22.11	23.01	16.587	16.580	17.01	17.68	N/A	24	24.45	
	5580	23.24	22.11	16.590	16.612	17.01	16.94			24.45	
	5700	22.24	23.26	16.649	16.590	16.80	17.07			24.47	
	5720	22.65	22.55	16.615	16.703	16.85	16.92			24.53	
U-NII Band 3	5745	13.82	13.87	16.577	16.579	16.93	17.08	N/A	30	N/A	
	5785	15.10	16.32	16.639	16.649	17.49	17.09				
	5825	16.35	14.77	16.607	16.630	17.21	17.05				

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

2. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11n-HT20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5180	23.90	22.56	17.735	17.740	16.77	16.78	19.79	24	N/A	
	5200	22.91	23.59	17.778	17.743	16.95	16.62	19.80			
	5240	22.25	23.88	17.688	17.742	16.88	16.51	19.71			
U-NII Band 2A	5260	22.23	22.53	17.713	17.741	16.63	16.72	19.69	24	24.47	
	5300	23.69	22.09	17.740	17.715	17.07	16.88	19.99		24.44	
	5320	23.41	23.03	17.730	17.736	17.41	17.16	20.30		24.62	
U-NII Band 2C	5500	22.67	23.66	17.743	17.751	17.05	16.96	20.02	24	24.55	
	5580	22.67	22.15	17.728	17.698	17.05	16.84	19.96		24.45	
	5700	22.63	24.15	17.743	17.756	17.44	17.26	20.36		24.55	
	5720	23.56	23.12	17.713	17.748	16.86	16.74	19.81		24.64	
U-NII Band 3	5745	15.17	16.30	17.745	17.715	16.79	16.65	19.73	30	N/A	
	5785	15.06	15.74	17.697	17.758	16.97	16.98	19.99			
	5825	17.56	16.34	17.741	17.740	17.20	17.04	20.13			

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5190	42.17	41.77	36.001	35.972	15.53	15.54	N/A	24	N/A	
	5230	42.46	41.57	36.066	35.975	17.38	17.04				
U-NII Band 2A	5270	43.82	40.36	36.096	36.057	17.28	17.04				
	5310	42.74	41.75	36.052	36.055	15.60	15.49				
U-NII Band 2C	5510	42.05	42.87	36.055	36.104	17.52	17.71				
	5550	44.17	42.30	36.120	36.091	17.36	17.22				
	5670	42.51	41.41	36.014	36.006	17.30	17.02				
	5710	41.56	42.46	36.013	36.033	17.62	17.43				
Mode 802.11n-HT40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5755	35.11	30.79	36.033	36.110	17.28	17.08	N/A	30	N/A	
	5795	35.07	28.77	36.109	36.018	17.38	17.06				

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ac- VHT80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Average Output Power (dBm)					
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 1	5210	86.98	82.60	75.156	74.978	13.89	13.76	N/A	24	N/A	
U-NII Band 2A	5290	85.46	83.82	75.068	75.027	14.40	14.17			30.23	
U-NII Band 2C	5530	83.15	83.92	75.124	74.966	15.17	14.91			18.05	30.20
	5610	84.93	82.62	75.113	75.013	16.25	15.90			19.09	30.17
	5690	83.89	85.36	75.023	74.969	16.33	15.85	19.11	30.24		

Mode 802.11ac- VHT80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Average Output Power (dBm)					
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 3	5775	71.47	53.97	75.122	74.904	17.04	16.74	N/A	30	N/A	

Mode 802.11ac- VHT160	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 d Bm+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Average Output Power (dBm)					
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 1/2A	5250	161.90	162.20	153.490	153.370	10.83	10.74	N/A	24	33.09	
U-NII Band 2C	5570	163.50	163.10	153.160	153.380	14.09	14.13			17.12	33.12

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}					
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main									
		Aux	Main	Aux	Main											
U-NII Band 1	5180	23.31	23.33	18.876	18.894	17.30	17.22	N/A	24	N/A						
	5200	23.24	23.45	18.891	18.898	17.17	16.96									
	5240	22.67	22.36	18.868	18.918	17.03	17.01									
U-NII Band 2A	5260	23.31	22.09	18.912	18.852	16.73	16.86			N/A	24	24.44				
	5300	22.66	23.29	18.925	18.871	17.17	16.88					24.55				
	5320	24.06	23.25	18.908	18.833	17.63	17.38					24.66				
U-NII Band 2C	5500	23.28	22.97	18.912	18.938	17.05	17.01					N/A	24	24.61		
	5580	23.23	24.11	18.937	18.871	17.08	16.73							24.66		
	5700	23.61	23.83	18.932	18.885	17.22	17.31							24.73		
	5720	22.06	23.59	18.866	18.895	17.09	16.50							24.44		
U-NII Band 3	5745	17.32	13.08	18.905	18.974	16.86	16.86							N/A	30	N/A
	5785	11.77	15.09	18.866	18.907	16.94	17.05									
	5825	13.42	17.51	18.931	18.856	17.05	16.86									

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}			
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth										
		Aux	Main	Aux	Main	Aux	Main							
U-NII Band 1	5190	40.91	40.71	37.483	37.576	15.18	15.29	N/A	24	N/A				
	5230	41.05	41.27	37.567	37.525	17.04	16.88							
U-NII Band 2A	5270	42.14	41.81	37.411	37.490	16.99	16.75				19.88	27.21		
	5310	42.96	41.95	37.428	37.498	15.23	15.11						18.18	27.23
U-NII Band 2C	5510	43.33	40.74	37.512	37.492	17.31	17.16				20.25	27.10		
	5550	41.54	42.15	37.546	37.531	17.12	17.17						20.16	27.18
	5670	42.18	41.28	37.473	37.418	16.97	16.82						19.91	27.16
	5710	42.62	41.26	37.452	37.627	17.25	17.22						20.25	27.16
Mode 802.11ax- HE40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)					Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth										
		Aux	Main	Aux	Main	Aux	Main							
U-NII Band 3	5755	29.24	32.67	37.547	37.510	17.11	16.86	N/A	30	N/A				
	5795	33.40	33.81	37.480	37.578	17.32	16.90				20.00	20.13		

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	82.63	83.17	76.477	76.507	13.64	13.38	N/A	24	N/A	
U-NII Band 2A	5290	81.92	82.56	76.533	76.588	14.07	13.90			30.13	
U-NII Band 2C	5530	81.86	84.04	76.602	76.624	14.84	14.64			30.13	
	5610	81.84	83.39	76.471	76.606	16.00	15.63			30.13	
	5690	82.26	82.64	76.696	76.694	16.06	15.60			30.15	
U-NII Band 3	5775	71.31	73.90	76.485	76.325	16.76	16.46	N/A	30	N/A	

Mode 802.11ax- HE160	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	163.00	161.40	154.69	154.78	10.58	9.99	N/A	24	33.08	
U-NII Band 2C	5570	163.10	162.00	154.59	154.59	13.91	13.69			33.10	

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE20	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dBm+1 0 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5180	26/0	23.31	23.33	18.876	18.894	9.62	9.40	0.173	12.69	24	N/A
		52/37	23.31	23.33	18.876	18.894	13.19	12.99	0.119	16.22		
		106/53	23.31	23.33	18.876	18.894	15.81	15.85	N/A	18.84		
U-NII Band 2A	5320	26/8	24.06	23.25	18.908	18.833	9.95	9.73	0.173	13.02	24	24.66
		52/40	24.06	23.25	18.908	18.833	13.49	13.18	0.119	16.47		24.66
		106/54	24.06	23.25	18.908	18.833	15.64	15.79	N/A	18.73		24.66
U-NII Band 2C	5500	26/0	23.28	22.97	18.912	18.938	10.04	9.68	0.173	13.05	24	24.61
		52/37	23.28	22.97	18.912	18.938	13.51	13.28	0.119	16.53		24.61
		106/53	23.28	22.97	18.912	18.938	15.00	15.22	N/A	18.12		24.61
	5700	26/8	23.61	23.83	18.932	18.885	9.60	9.43	0.173	12.70		24.73
		52/40	23.61	23.83	18.932	18.885	13.60	13.06	0.119	16.47		24.73
		106/54	23.61	23.83	18.932	18.885	16.05	15.78	N/A	18.93		24.73
Mode 802.11ax- HE20	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dBm+1 0 log B) ^{Note 3}
			Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 3	5745	26/0	17.320	8.000	18.905	18.974	15.38	15.47	0.173	18.61	30	N/A
		52/37	17.320	8.000	18.905	18.974	13.31	12.98	0.119	16.28		
		106/53	17.320	8.000	18.905	18.974	17.50	17.37	N/A	20.45		
	5825	26/8	13.420	17.510	18.931	18.856	15.97	15.92	0.173	19.13		
		52/40	13.420	17.510	18.931	18.856	13.47	13.31	0.119	16.52		
		106/54	13.420	17.510	18.931	18.856	17.38	17.39	N/A	20.40		

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11 ax- HE40	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(1 dBm+ 10 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5190	242/61	40.91	40.71	37.483	37.576	16.43	16.72	0.150	24	N/A	
U-NII Band 2A	5310	242/62	42.96	41.95	37.428	37.498	16.23	16.21				
U-NII Band 2C	5510	242/61	43.33	40.74	37.512	37.492	17.60	17.53				
	5670	242/62	42.18	41.28	37.473	37.418	17.54	17.28				20.57
Mode 802.11 ax- HE40	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(1 dBm+ 10 log B) ^{Note 3}
			Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 3	5755	242/61	29.24	32.67	37.547	37.510	16.79	16.88	0.150	30	N/A	
	5795	242/62	33.40	33.81	37.480	37.578	17.43	17.48				20.00

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE80	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 d Bm+10 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5210	484/65	82.63	83.17	76.477	76.507	14.29	14.32	N/A	24	N/A	
U-NII Band 2A	5290	484/66	81.92	82.56	76.533	76.588	12.30	11.98				
U-NII Band 2C	5530	484/65	81.86	84.04	76.602	76.624	15.72	15.31				
	5610	484/66	81.84	83.39	76.471	76.606	17.10	16.48				
U-NII Band 3	5775	484/65	71.31	73.90	76.485	76.325	17.12	16.98	N/A	30	N/A	
		484/66	71.31	73.90	76.485	76.325	17.35	17.10				

Mode 802.11ax- HE160	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 d Bm+10 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	996/97	163.00	161.40	154.690	154.780	13.59	13.27	0.16	24	33.08	
		996/S67	163.00	161.40	154.690	154.780	11.89	11.28				
U-NII Band 2C	5570	996/97	163.10	162.00	154.590	154.590	13.79	13.54				
		996/S67	163.10	162.00	154.590	154.590	16.86	16.41				

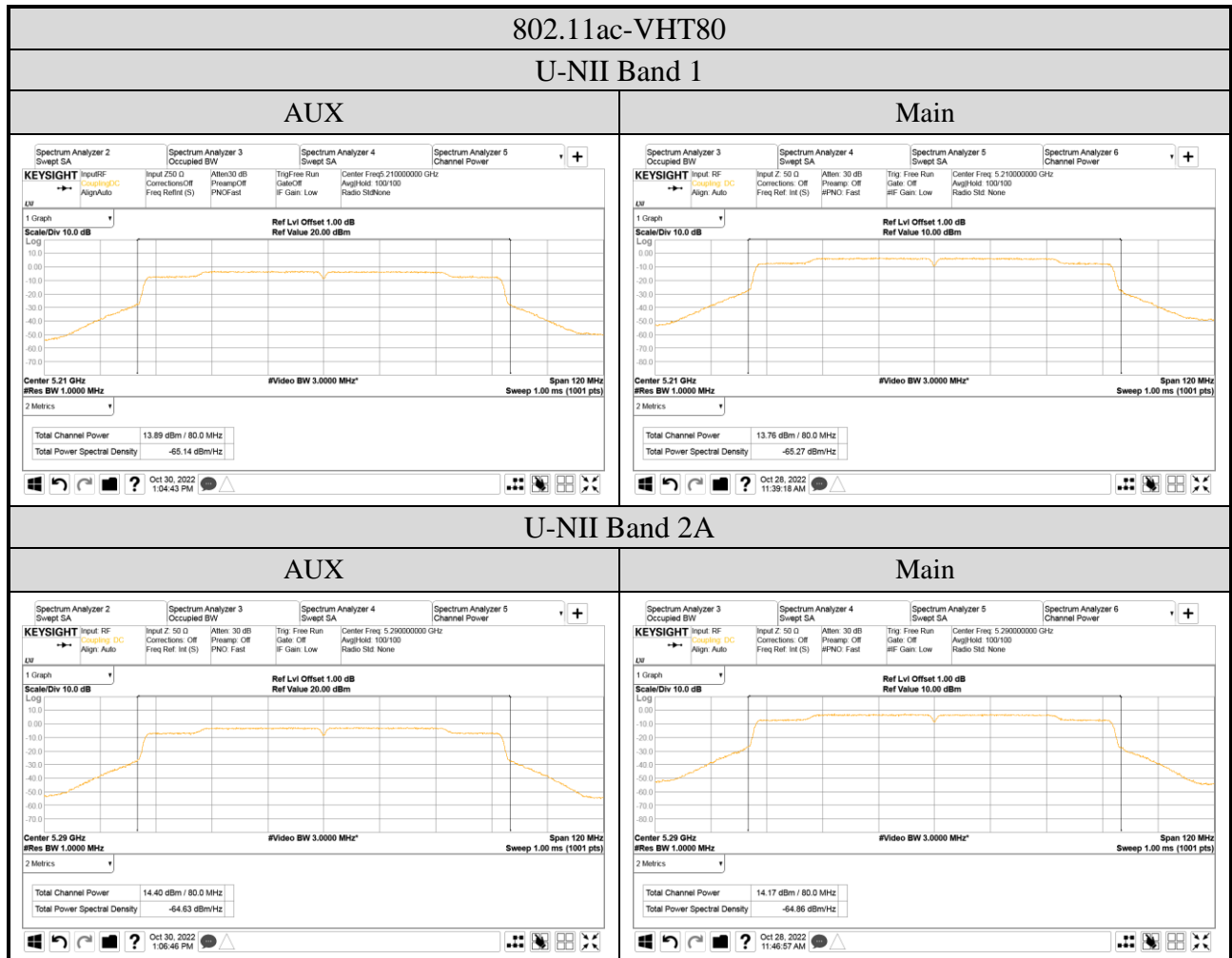
Note: 1. The results have been included cable loss.

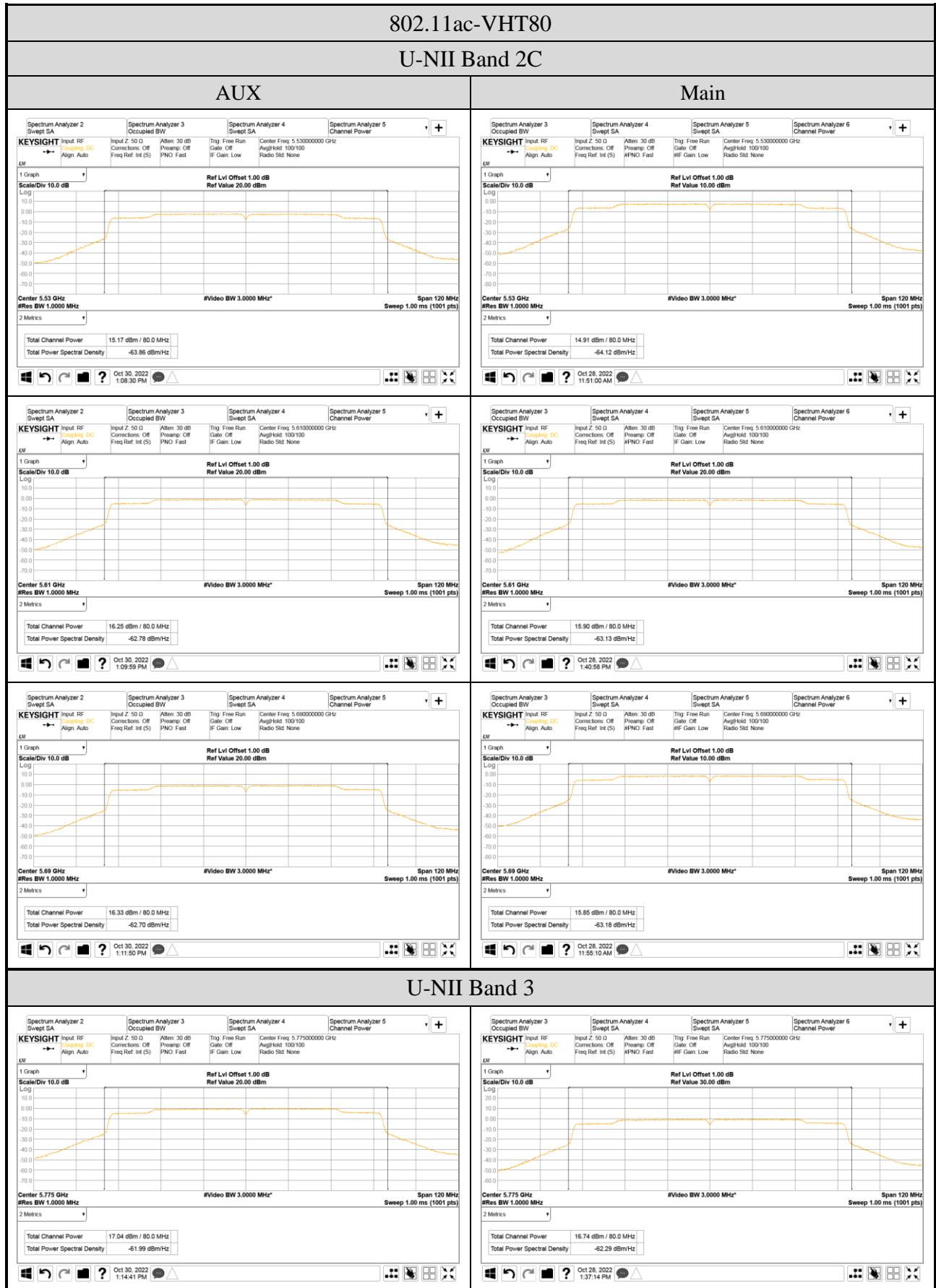
2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

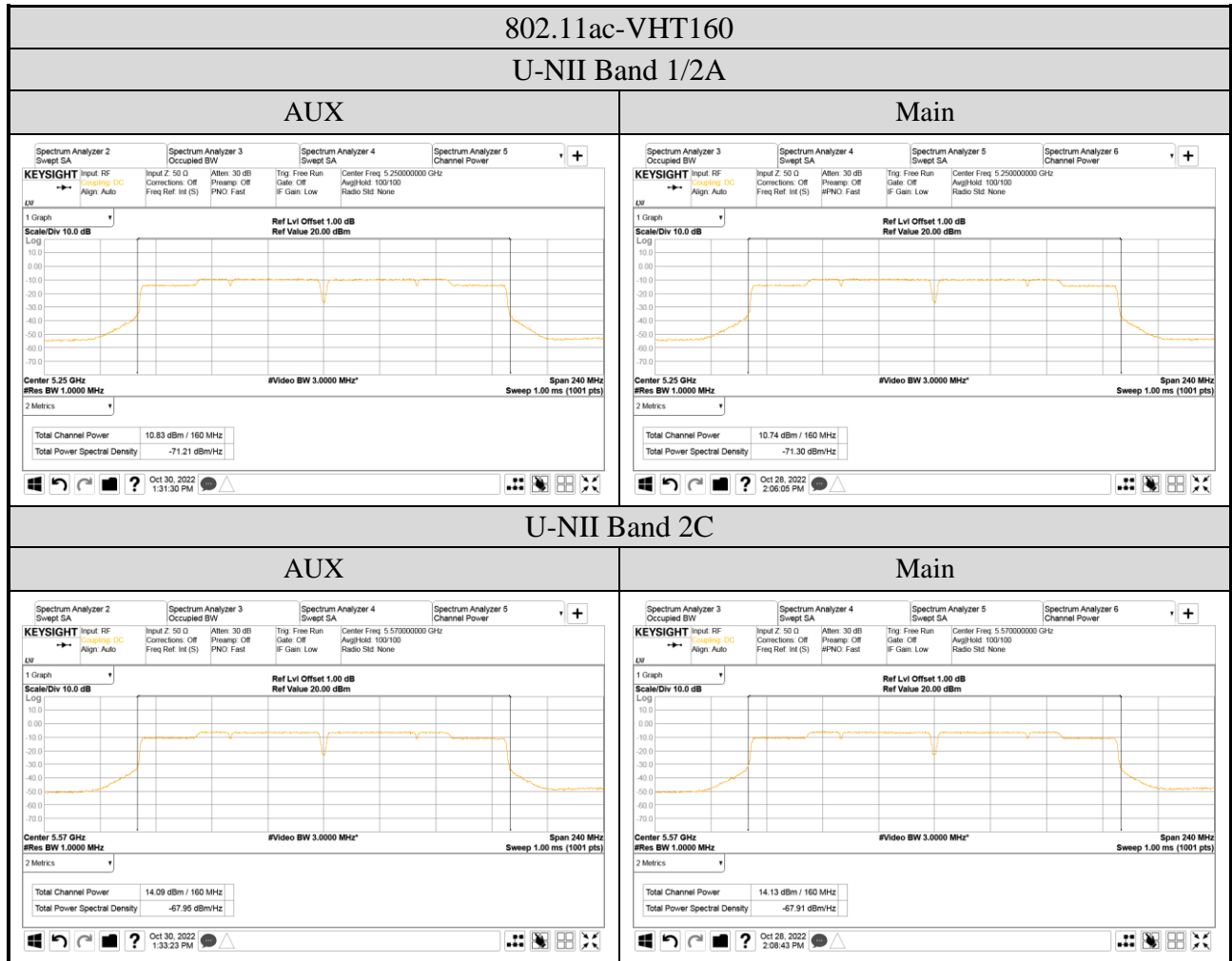
3. B is the 26 dB emission bandwidth.

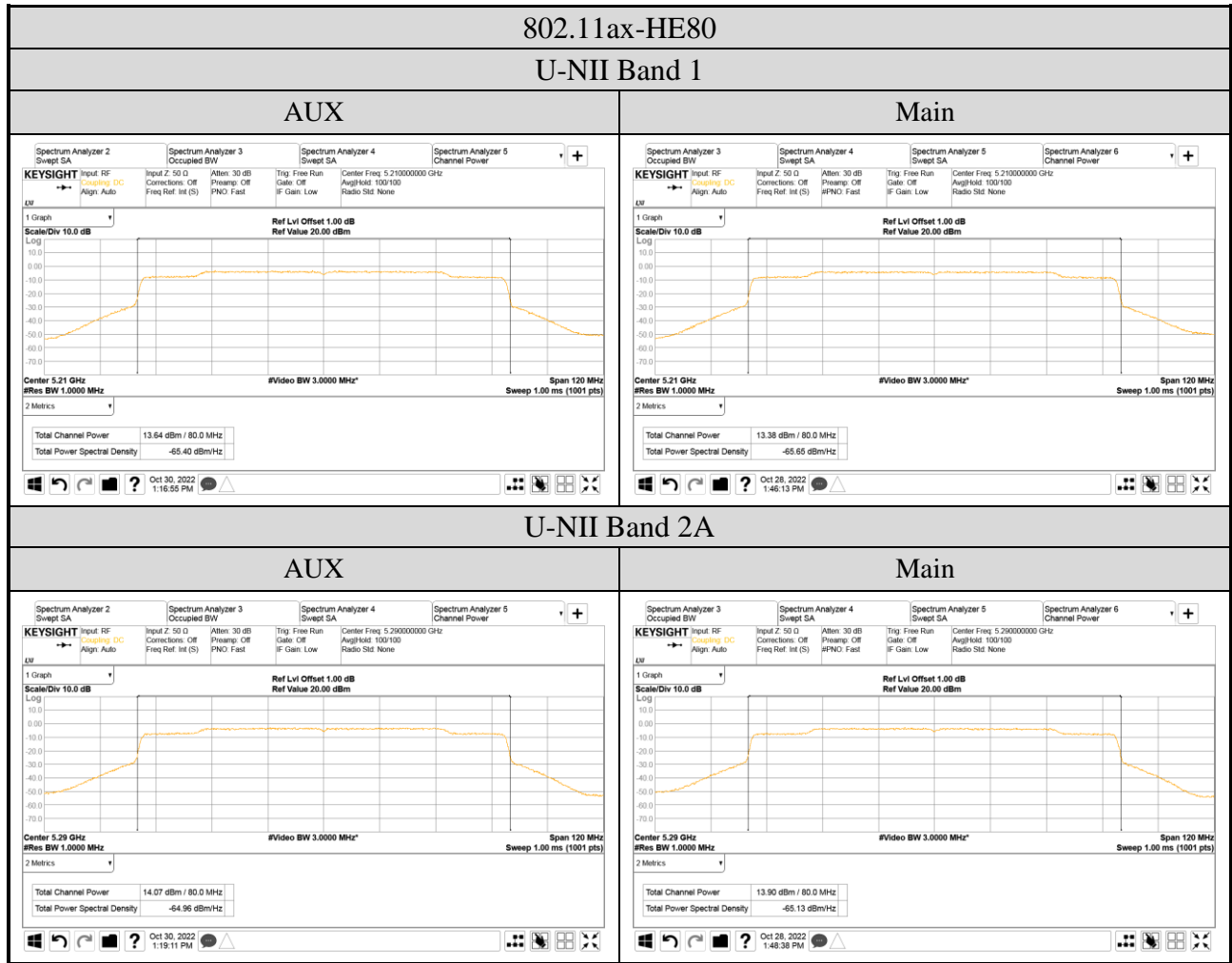
A.3.2 Measurement Plots

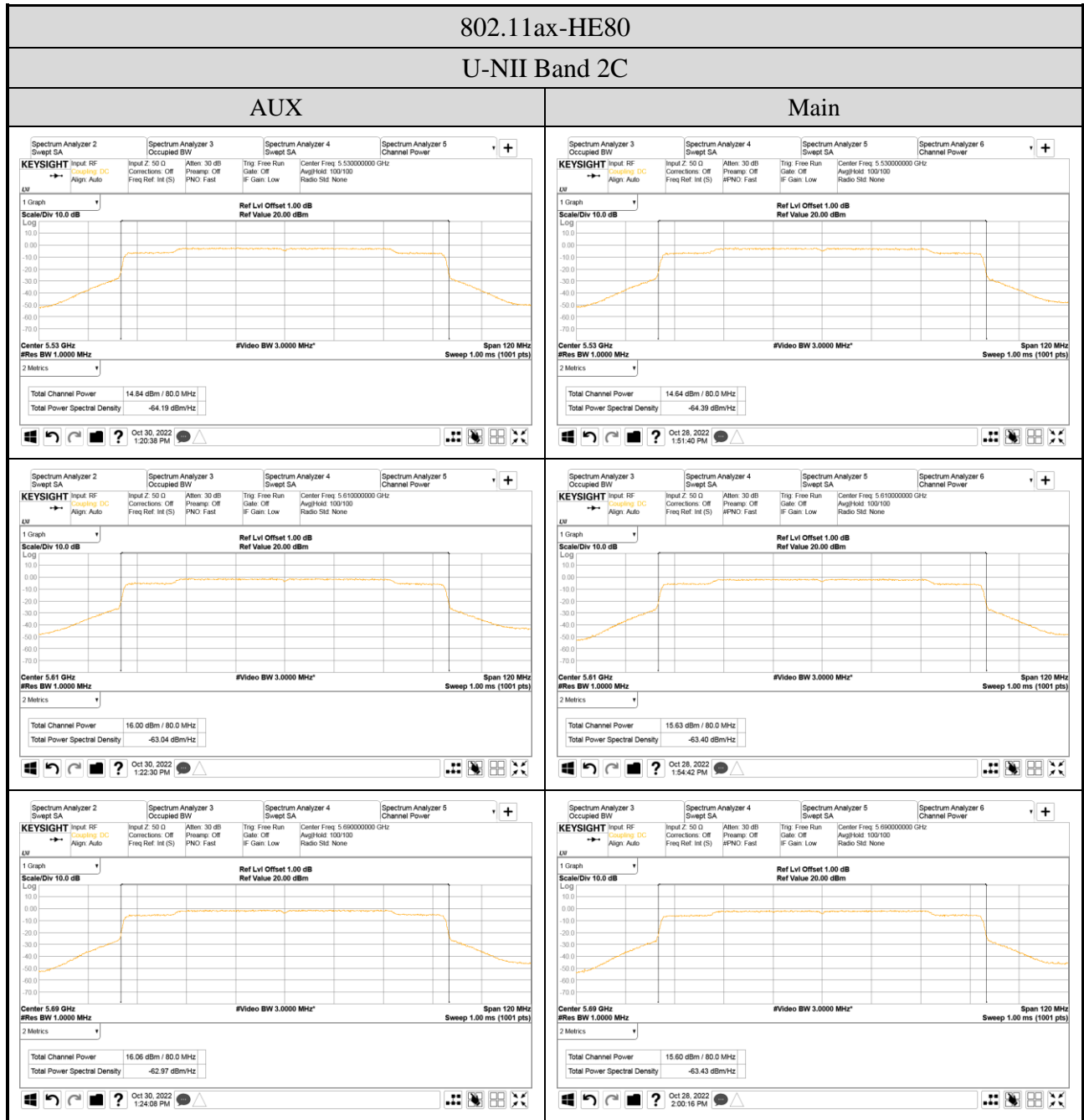
- Maximum Output Power

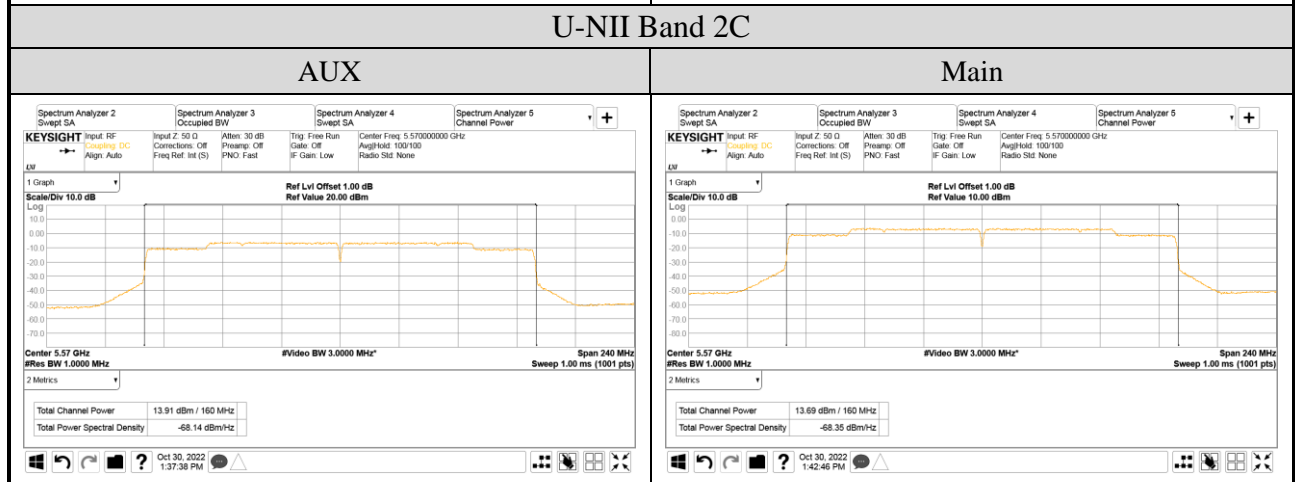
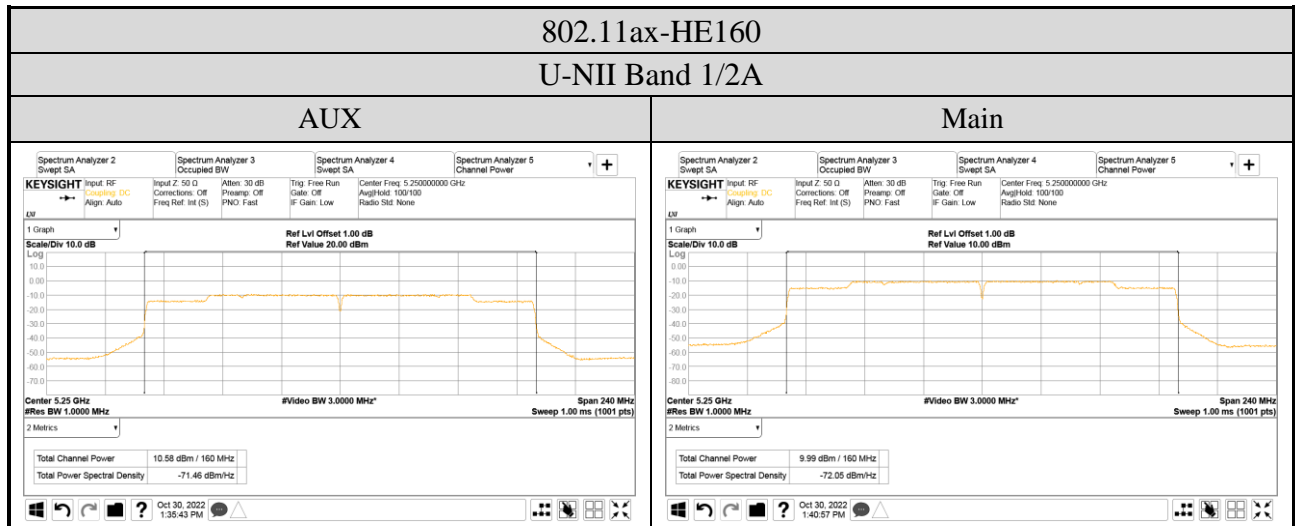
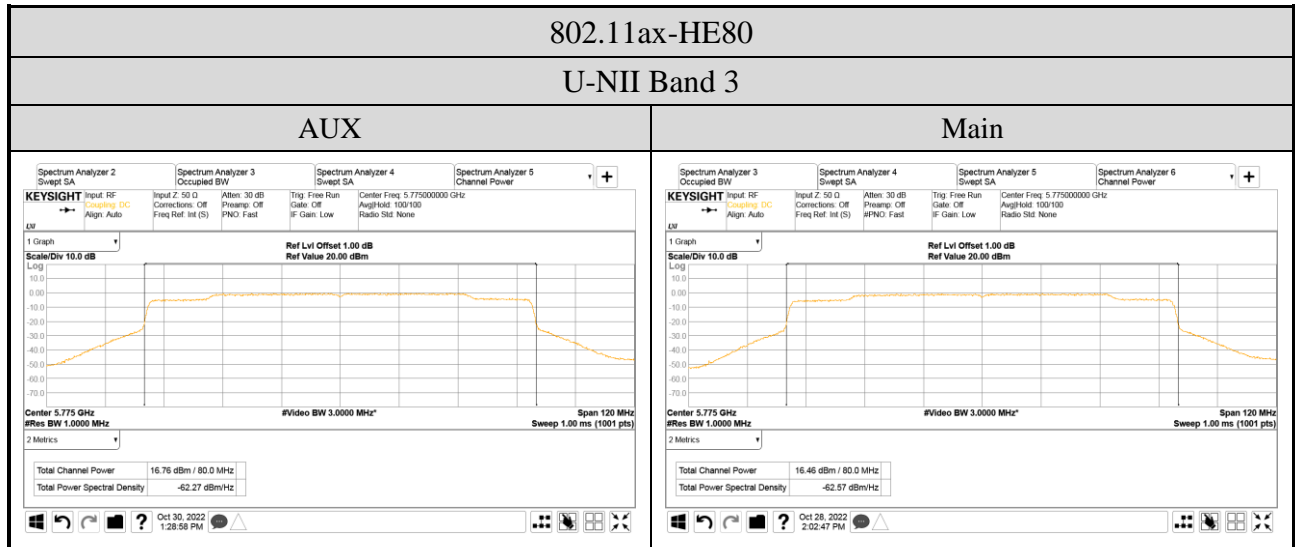


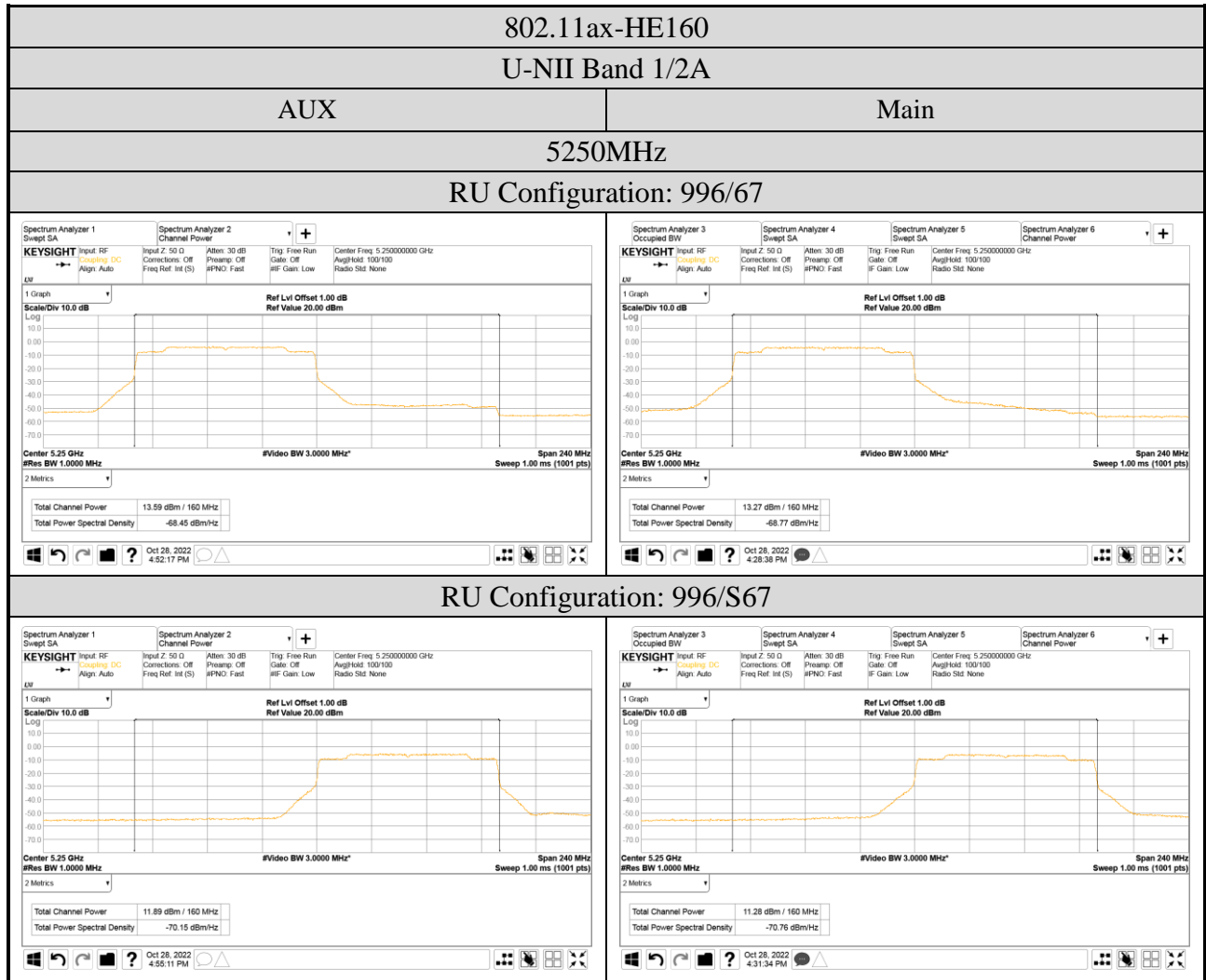


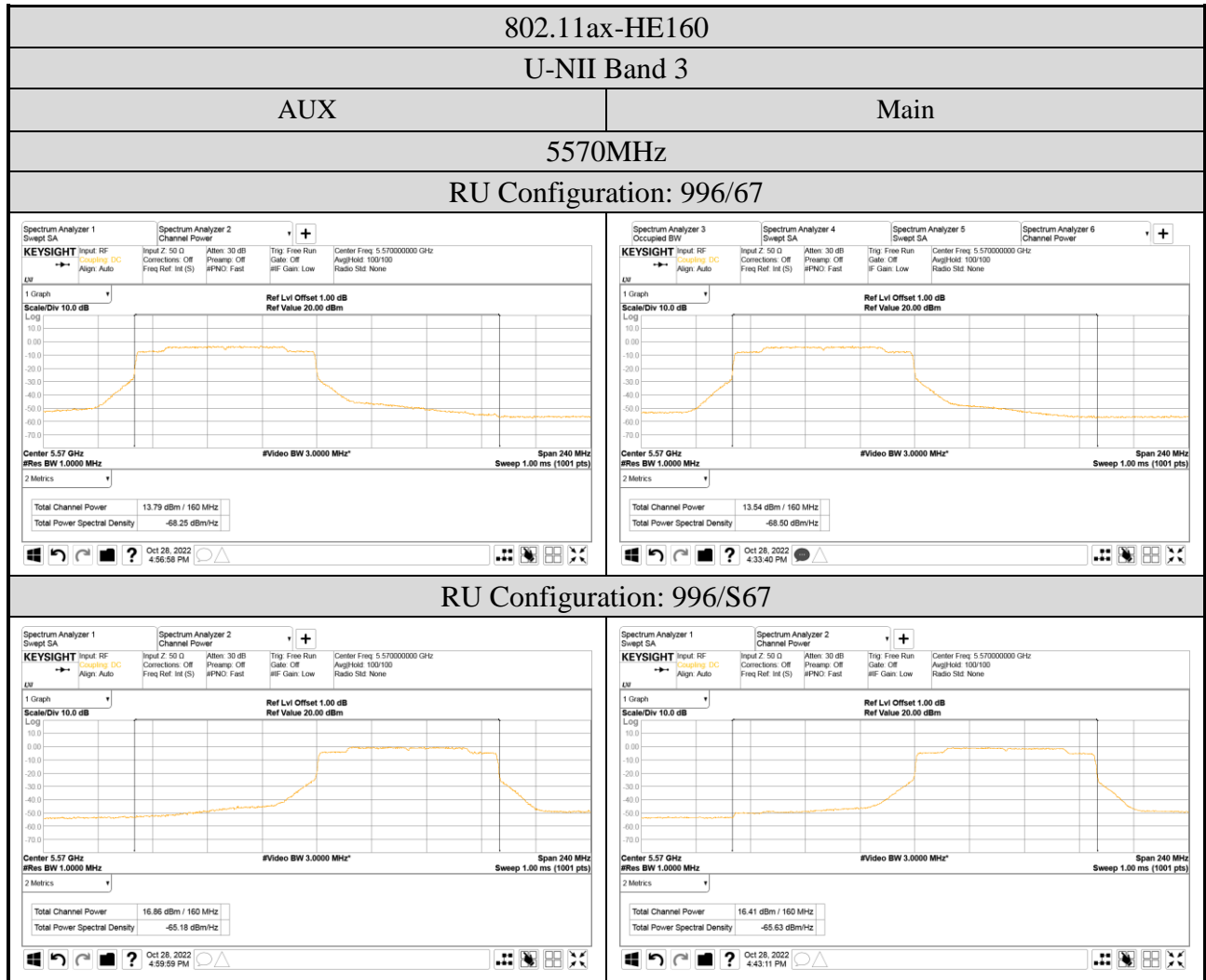












● Emission (26dB) Bandwidth (U-NII Band 1~2C)

