

A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED

BANDWIDTH

Test Date	2022/07/11 ~ 17	Temp./Hum.	24 ~ 26°C/41 ~ 50%
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(1 dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5180	21.60	22.20	16.558	16.599	18.62	19.44	19.53	24	N/A	
	5200	22.62	22.49	16.552	16.648	19.65	20.04	20.13			
	5240	21.88	22.12	16.506	16.538	19.63	20.28	20.37			
U-NII Band 2A	5260	20.94	23.02	16.511	16.492	19.59	20.34	20.43	24	24.21	
	5300	22.61	21.89	16.485	16.583	19.59	20.38	20.47		24.40	
	5320	22.08	23.43	16.539	16.576	19.10	19.67	19.76		24.44	
U-NII Band 2C	5500	21.28	22.11	16.513	16.569	19.13	19.56	19.65	0.092	24.28	
	5580	21.98	22.39	16.545	16.607	19.65	20.44	20.53		24.42	
	5700	21.86	21.43	16.561	16.629	19.54	20.21	20.30		24.31	
	5720	22.61	21.72	16.528	16.565	19.03	19.74	19.83		24.37	
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(1 dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5745	15.96	15.06	16.583	16.530	19.43	20.24	20.33	0.092	30	N/A
	5785	10.80	13.75	16.566	16.589	19.61	20.52	20.61			
	5825	16.37	10.08	16.519	16.577	19.73	20.31	20.40			

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%.

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) ^{Note 2}	Limit (dBm)	Limit(1 dBm +10 log B) ^{Note 3}		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main	Aux	Main						
U-NII Band 1	5180	23.77	22.29	17.782	17.773	16.24	17.21	N/A	24	N/A			
	5200	23.30	23.81	17.744	17.757	17.23	17.92						
	5240	23.91	24.13	17.720	17.737	17.52	17.86						
U-NII Band 2A	5260	22.91	23.50	17.672	17.736	17.43	18.00			20.73	24.60		
	5300	23.19	23.71	17.760	17.740	17.52	18.04			20.80	24.65		
	5320	23.37	23.23	17.703	17.713	16.82	17.56			20.22	24.66		
U-NII Band 2C	5500	22.86	23.06	17.699	17.682	17.52	17.92			20.73	24.59		
	5580	24.26	23.79	17.753	17.726	17.46	18.11			20.81	24.76		
	5700	23.24	23.96	17.762	17.789	16.94	17.49			20.23	24.66		
	5720	23.45	23.54	17.705	17.731	19.37	19.96			22.69	24.70		
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) ^{Note 2}	Limit (dBm)	Limit(1 dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main	Aux	Main						
U-NII Band 3	5745	17.59	17.59	17.716	17.724	19.22	19.97	N/A	30	N/A			
	5785	15.10	17.59	17.712	17.759	19.52	19.96						
	5825	17.58	17.61	17.689	17.761	19.70	19.96				22.84		

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%.

3. B is the 26 dB emission bandwidth.

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(11 dBm +10 log B) ^{Note 3}		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main	Aux	Main						
U-NII Band 1	5190	41.51	41.41	36.005	36.082	15.21	16.10	N/A	24	N/A			
	5230	43.27	41.83	36.085	35.985	19.32	20.23						
U-NII Band 2A	5270	44.15	42.34	36.159	36.059	19.87	20.31			23.11	27.27		
	5310	42.11	41.84	35.988	36.072	15.12	15.54			18.35	27.22		
U-NII Band 2C	5510	43.08	40.39	36.026	35.996	17.01	17.33			20.18	27.06		
	5550	44.69	42.02	36.176	36.015	20.08	20.32			23.21	27.23		
	5670	42.71	39.98	36.000	35.983	18.30	19.06			21.71	27.02		
	5710	41.96	41.79	36.062	36.096	16.94	17.80			20.40	27.21		
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(11 dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main	Aux	Main						
U-NII Band 3	5755	33.91	33.19	36.084	35.981	19.15	20.41	N/A	30	N/A			
	5795	25.70	35.10	36.061	36.064	19.30	20.37				22.84	22.88	

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%.

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(11 dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	83.91	84.40	75.052	75.067	15.16	14.43	N/A	24	N/A	
U-NII Band 2A	5290	84.39	83.46	75.082	75.097	15.88	15.58			17.74	30.21
U-NII Band 2C	5530	86.16	83.85	75.033	74.917	16.09	15.95			19.03	30.24
	5610	86.74	87.52	75.244	75.147	21.13	20.38			23.78	30.38
	5690	86.05	87.07	75.292	75.150	21.19	20.34			23.80	30.35
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}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5775	65.24	72.85	75.090	75.047	19.94	19.18	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 dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	163.20	163.20	154.490	155.190	12.37	12.13	N/A	24	33.13	
U-NII Band 2C	5570	162.70	162.60	154.430	154.380	15.51	14.52			18.05	33.11

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%.

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	22.24	23.76	18.876	18.923	16.18	17.17	19.71	24	N/A	
	5200	23.26	22.94	18.906	18.861	17.14	18.06	20.63			
	5240	23.53	22.47	18.857	18.939	17.40	17.99	20.72			
U-NII Band 2A	5260	22.31	23.14	18.891	18.877	17.33	18.13	20.76	24	24.48	
	5300	22.80	23.82	18.925	18.886	17.32	18.16	20.77		24.58	
	5320	22.46	23.22	18.911	18.875	16.91	17.64	20.30		24.51	
U-NII Band 2C	5500	23.54	22.14	18.886	18.835	17.53	18.06	20.81	24	24.45	
	5580	22.75	22.57	18.883	18.811	17.36	18.26	20.84		24.54	
	5700	22.97	23.24	18.896	18.897	16.89	17.52	20.23		24.61	
	5720	22.66	22.32	18.843	18.888	19.30	20.01	22.68		24.49	
U-NII Band 3	5745	18.71	13.74	18.842	18.883	19.32	20.05	22.71	30	N/A	
	5785	16.93	18.55	18.905	18.894	19.41	20.02				22.74
	5825	15.78	13.78	18.888	18.915	19.71	20.08				22.91

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%.

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	41.54	41.92	37.587	37.595	15.12	15.76	N/A	24	N/A			
	5230	41.92	41.67	37.528	37.424	19.41	19.98				22.71		
U-NII Band 2A	5270	43.23	41.56	37.510	37.666	19.46	19.97			22.73	27.19		
	5310	41.88	37.55	41.980	37.558	14.78	15.42			18.12	26.75		
U-NII Band 2C	5510	40.62	41.75	37.537	37.608	16.64	17.16			19.92	27.09		
	5550	44.61	43.74	37.487	37.589	19.61	20.24			22.95	27.41		
	5670	43.18	41.17	37.445	37.487	18.42	18.72			21.58	27.15		
	5710	41.67	41.17	37.505	37.509	17.19	17.56			20.39	27.15		
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	36.47	27.82	37.476	37.592	19.41	20.11	N/A	30	N/A			
	5795	35.17	31.34	37.610	37.489	19.56	20.08				22.84		

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%.

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(11 dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	83.13	82.76	76.623	76.483	13.92	14.44	N/A	24	N/A	
U-NII Band 2A	5290	82.19	84.25	76.616	76.660	14.63	14.85			17.75	30.15
U-NII Band 2C	5530	82.11	82.28	76.531	76.471	14.72	14.98			17.86	30.14
	5610	84.60	83.23	76.703	76.576	20.28	20.08			23.19	30.20
	5690	85.69	83.73	76.625	76.678	20.16	20.10			23.14	30.23
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}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5775	73.94	73.87	76.649	76.532	18.83	19.03	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(11 dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	162.60	163.30	155.04	154.87	11.24	11.71	N/A	24	33.11	
U-NII Band 2C	5570	162.20	162.60	154.56	154.65	14.29	14.79			17.56	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%.

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	20.08	20.61	18.612	18.672	10.26	10.00	N/A	24	N/A	
		52/37	21.46	20.28	17.698	17.806	13.71	13.89				
		106/53	21.13	21.98	18.277	17.716	16.42	16.10				
U-NII Band 2A	5320	26/8	20.48	20.42	18.634	18.624	9.58	10.01	N/A	24	24.10	
		52/40	21.86	21.86	18.456	17.987	13.03	13.10			24.40	
		106/54	23.17	23.23	18.181	17.482	15.84	15.36			24.65	
U-NII Band 2C	5500	26/0	19.78	20.79	18.413	18.656	9.58	9.74	N/A	24	23.96	
		52/37	21.17	21.52	18.495	18.307	13.37	13.54			24.26	
		106/53	22.57	22.02	18.280	18.199	15.01	15.22			24.43	
	5700	26/8	20.27	20.53	18.464	18.740	9.68	9.61			24.07	
		52/40	21.07	23.07	18.379	18.223	13.63	13.64			24.24	
		106/54	23.12	23.06	18.051	18.038	16.05	16.24			24.63	
U-NII Band 3	5745	26/0	17.050	14.560	18.581	18.643	15.15	15.17	N/A	30	N/A	
		52/37	17.060	17.020	18.523	18.352	16.17	16.42				
		106/53	17.070	17.150	18.368	18.223	17.68	17.53				
5825	26/8	2.058	2.106	17.171	18.573	14.99	15.24	18.13				
	52/40	15.790	15.830	15.794	18.214	13.64	13.55	16.61				
	106/54	17.080	17.410	18.214	17.918	16.18	17.08	19.66				

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%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- 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	22.27	22.37	18.604	18.692	17.11	17.21	N/A	24	N/A	
U-NII Band 2A	5310	242/62	23.97	23.28	18.725	18.663	16.48	16.66				24.67
U-NII Band 2C	5510	242/61	22.55	24.13	18.670	18.786	15.69	15.67				24.53
	5670	242/62	22.75	23.31	18.713	18.681	17.54	18.01				24.57
Mode 802.11ax- 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	17.72	18.20	18.713	18.717	19.54	20.11	N/A	30	N/A	
	5795	242/62	18.28	14.91	18.705	18.677	19.45	20.09				22.79

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%.

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	41.07	41.04	37.194	37.217	15.21	15.29	N/A	24	N/A	
U-NII Band 2A	5290	484/66	40.80	37.24	40.690	37.234	12.10	12.12			26.71	
U-NII Band 2C	5530	484/65	40.47	40.51	36.931	37.146	15.00	14.89			17.96	
	5610	484/66	41.89	4.00	37.253	37.236	18.76	19.24			22.02	17.02
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 (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
Aux	Main	Aux	Main									
U-NII Band 3	5775	484/65	27.96	34.90	37.082	37.074	18.88	19.42	N/A	30	N/A	
		484/66	36.43	31.35	37.192	37.245	18.89	19.37			22.15	N/A

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	82.28	84.02	76.662	76.818	14.29	12.92	N/A	24	30.15	
		996/S67	83.26	81.48	76.747	77.289	12.94	12.92			30.11	
U-NII Band 2C	5570	996/97	81.26	80.68	76.907	76.547	14.49	14.55			17.53	30.07
		996/S67	84.09	82.06	76.762	76.551	18.34	18.46			21.41	30.14

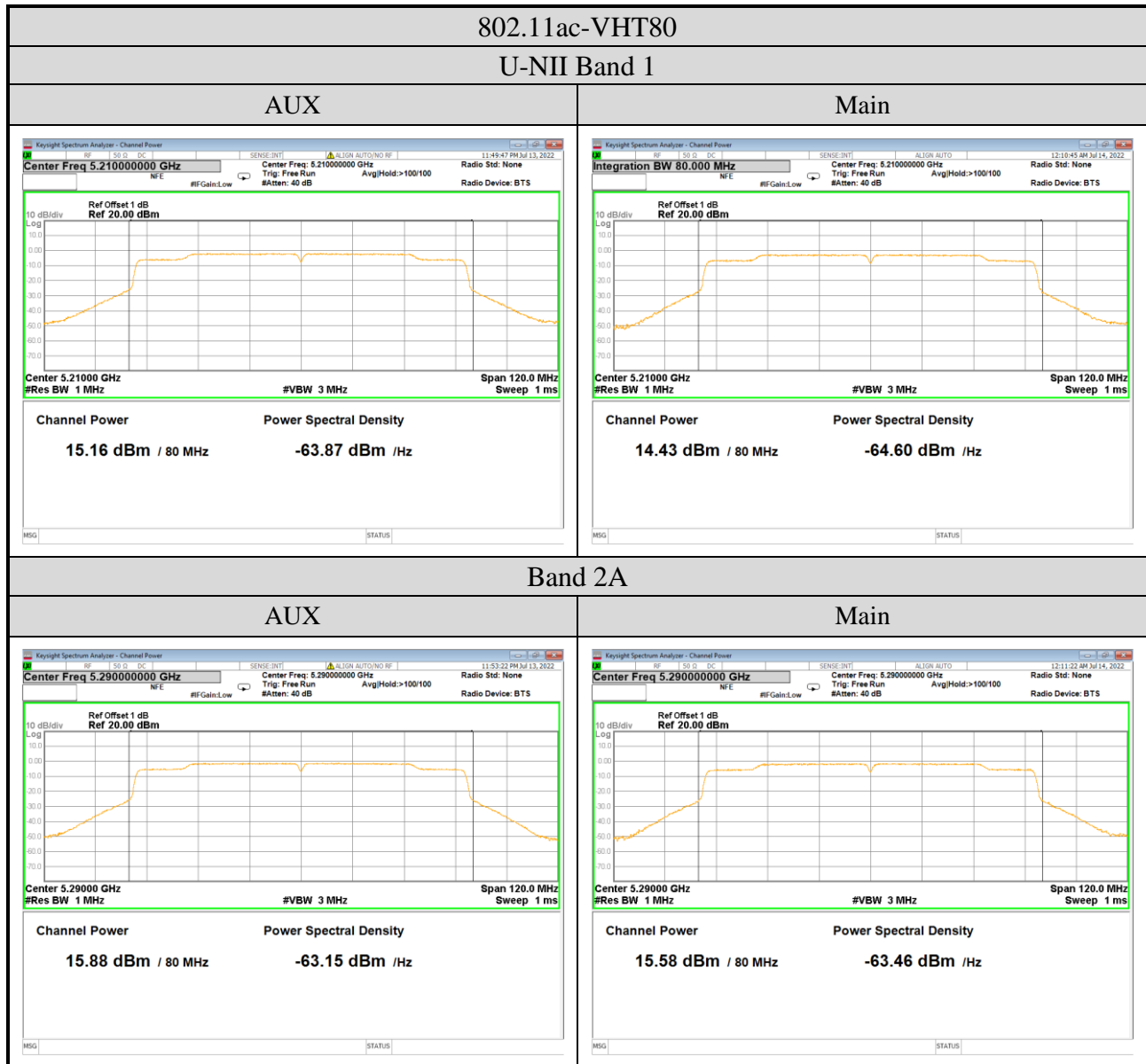
Note: 1. The results have been included cable loss.

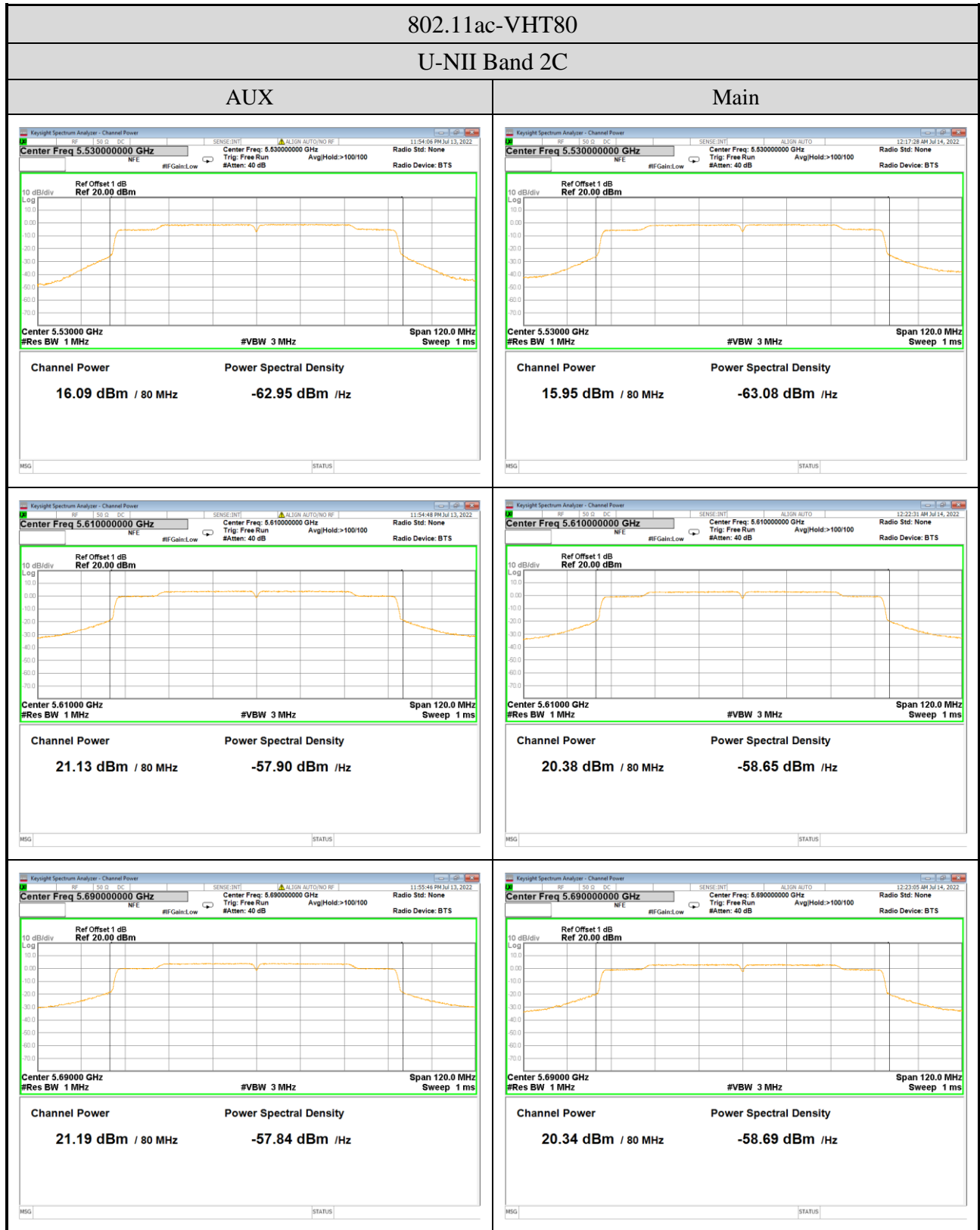
2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth

A.3.2 Measurement Plots

- Maximum Output Power



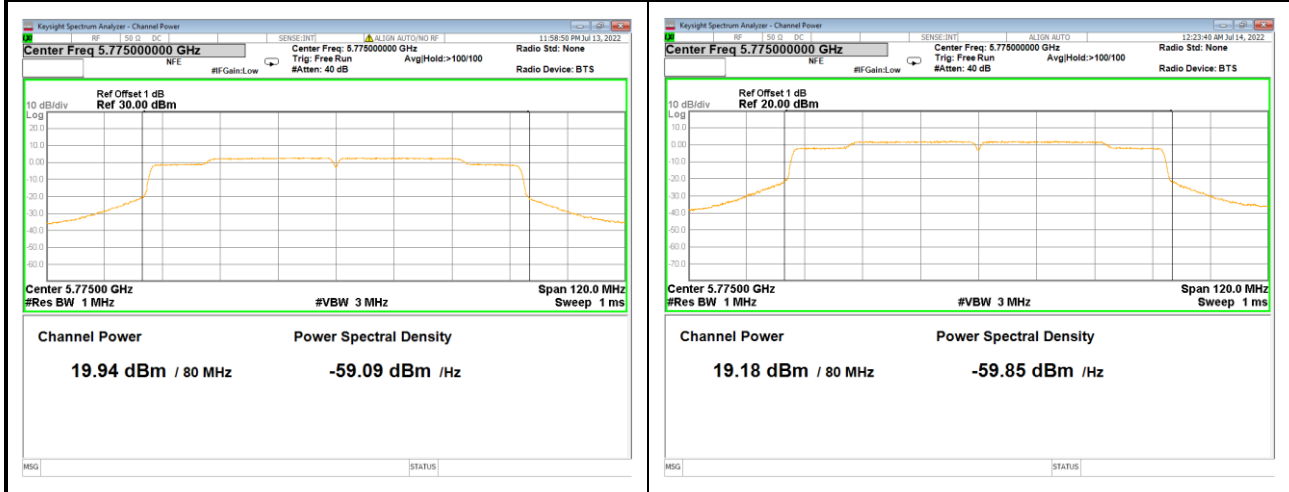


Audix Technology Corp.
 No. 491, Zhongfu Rd., Linkou Dist.,
 New Taipei City 244, Taiwan

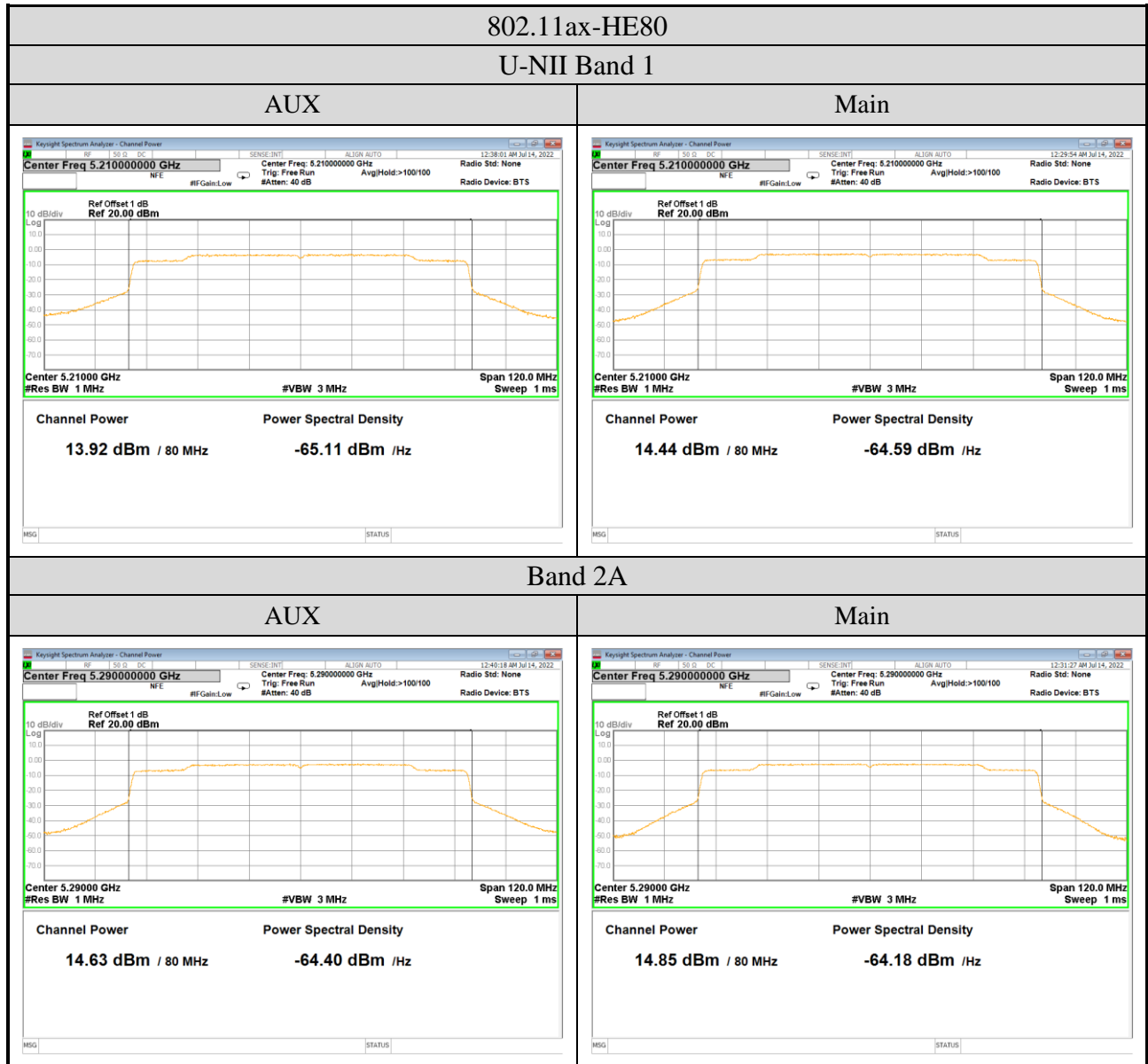
Tel: +886 2 26099301
Fax: +886 2 26099303

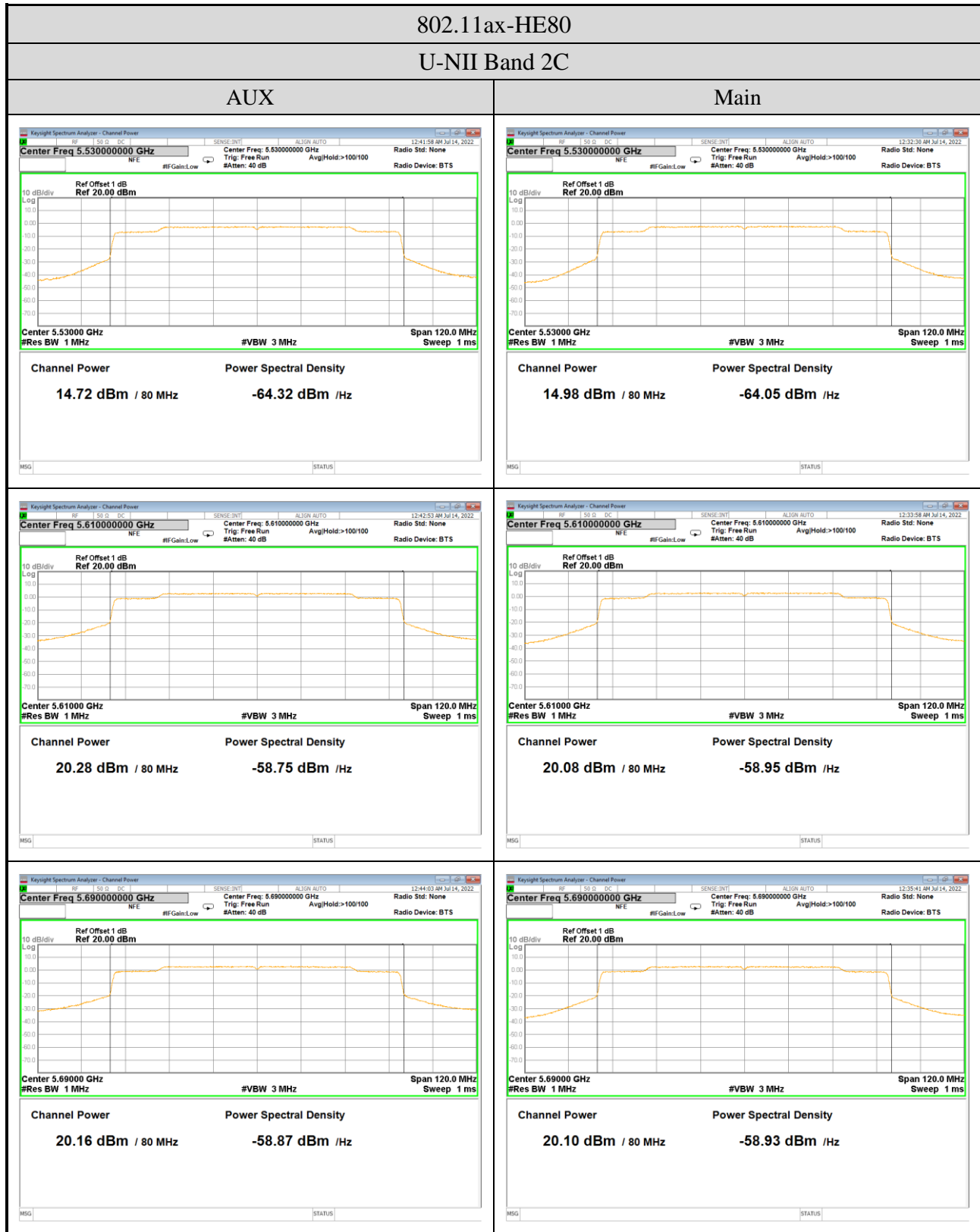
802.11ac-VHT80

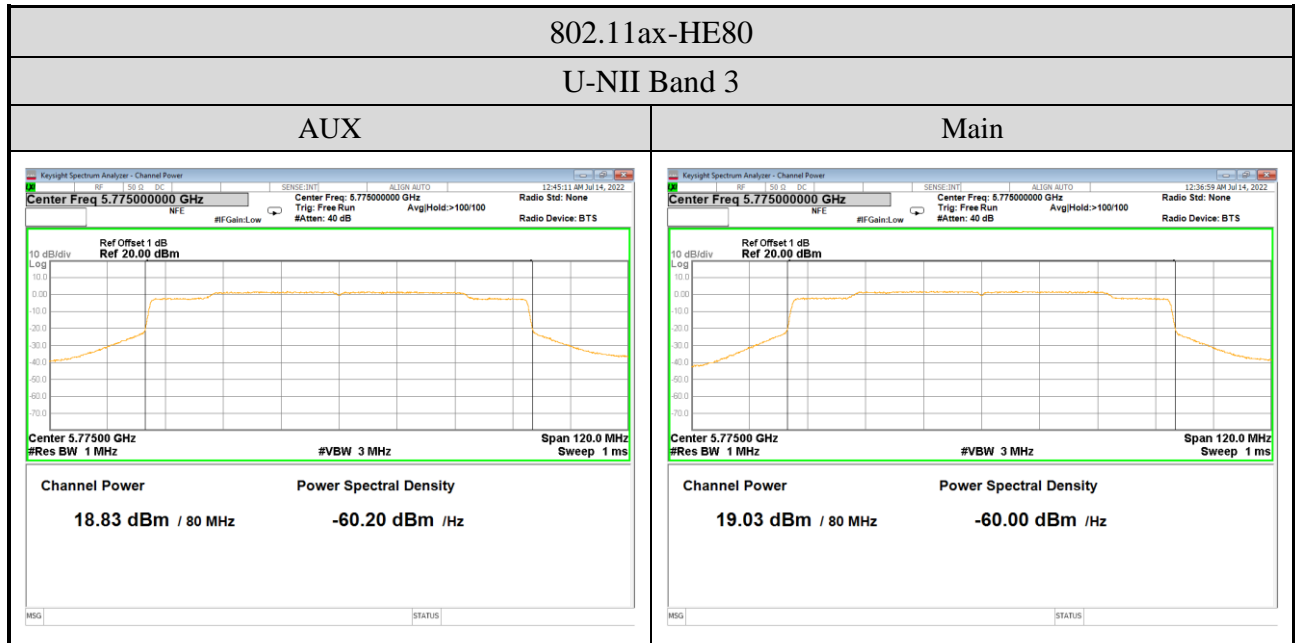
Band 3



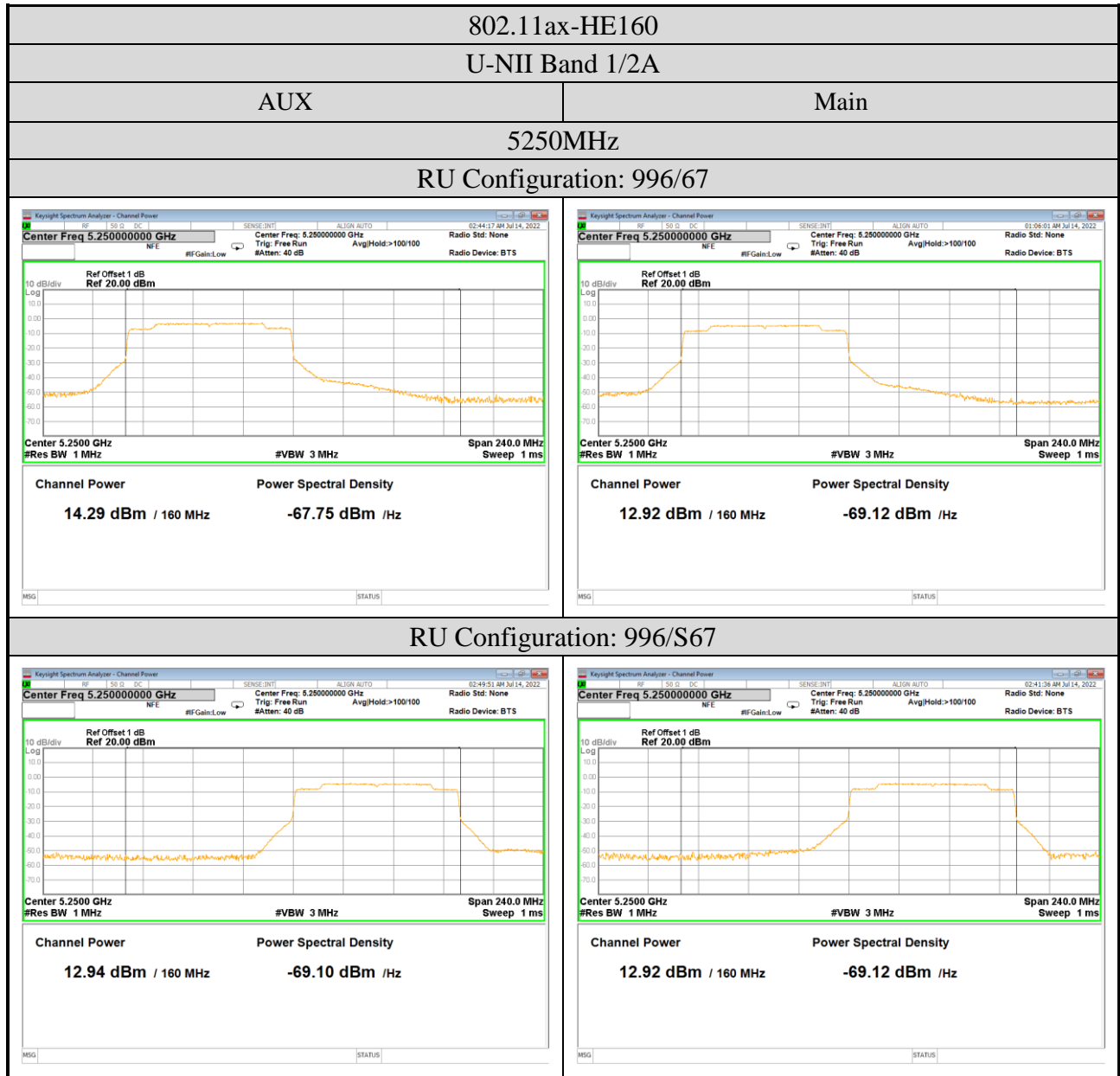


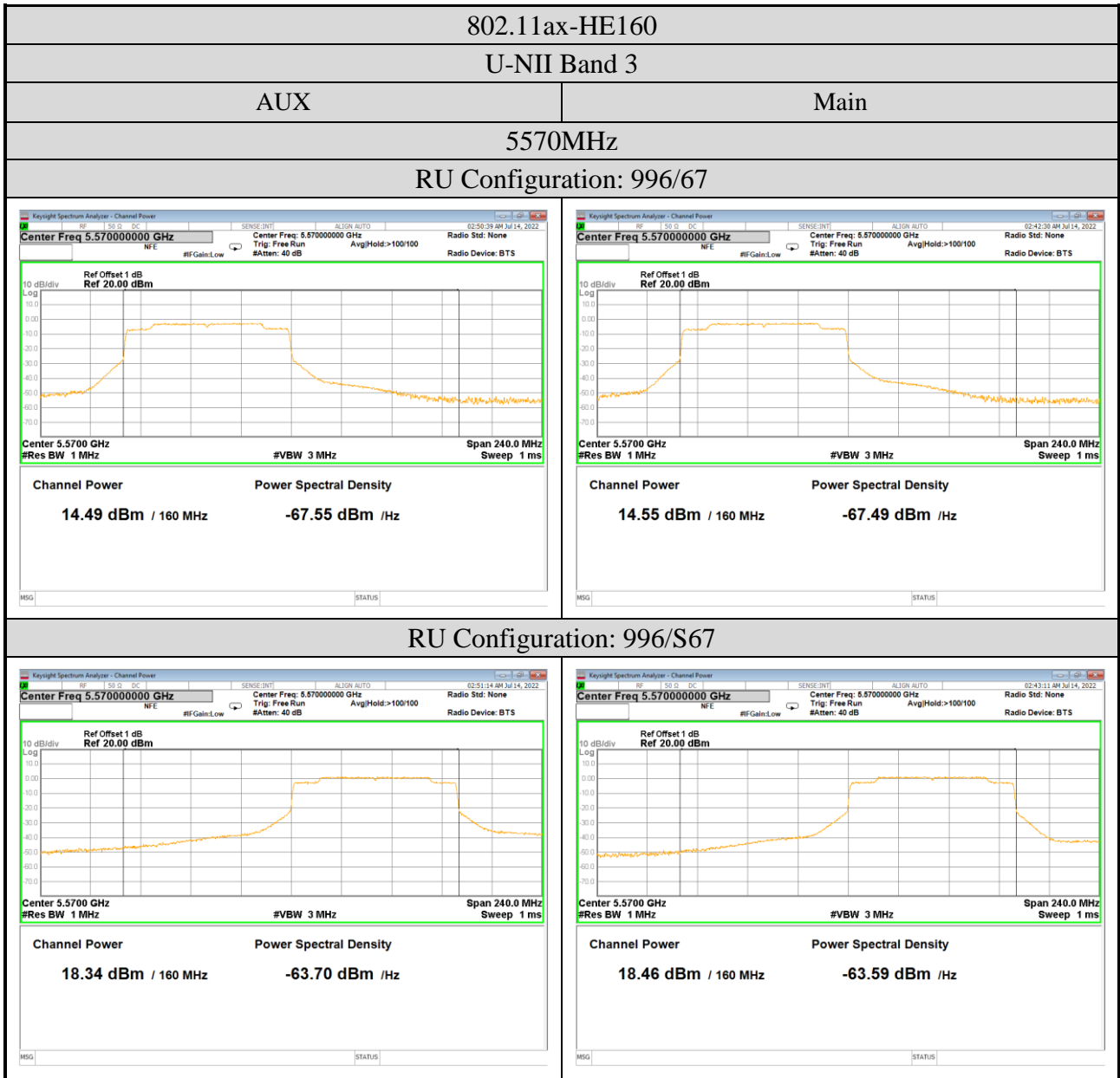












● Emission (26dB) Bandwidth

