

A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED BANDWIDTH

Test Date	2022/07/01~08	Temp./Hum.	23~26°C/52~59%
Cable Loss	0.5dB	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 (1dBm+10 log B) Note 3
		Emission (26dB)		Occupied (99%)		AUX	Main				
		AUX	Main	AUX	Main						
U-NII Band 1	5180	22.91	22.49	16.605	16.610	16.18	16.30	N/A	24	N/A	
	5200	22.63	23.52	16.653	16.590	16.17	16.34				
	5240	22.71	23.00	16.587	16.592	16.07	16.11				
U-NII Band 2A	5260	23.87	23.07	16.602	16.675	16.21	16.17			24.63	
	5300	23.69	22.71	16.679	16.660	16.18	16.33			24.56	
	5320	24.18	23.76	16.608	16.631	16.25	16.44			24.76	
U-NII Band 2C	5500	22.90	21.96	16.613	16.628	16.44	16.37			24.42	
	5580	22.94	22.17	16.678	16.628	16.32	16.28			24.46	
	5700	23.02	21.89	16.576	16.578	16.29	16.19			24.40	
	5720	22.89	23.39	16.654	16.693	16.41	16.46			24.60	
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 (1dBm+10 log B) Note 3
Emission (6dB)		Occupied (99%)		AUX	Main						
AUX	Main	AUX	Main								
U-NII Band 3	5745	14.46	16.34	16.538	16.683	16.65	16.89	N/A	30	N/A	
	5785	10.31	11.68	16.632	16.618	16.59	16.92				
	5825	13.40	15.32	16.592	16.608	16.59	16.86				

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	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)		Occupied (99%)		AUX	Main					
		AUX	Main	AUX	Main							
U-NII Band 1	5180	23.19	22.67	17.720	17.687	16.20	15.81	N/A	19.02	24	N/A	
	5200	22.80	23.24	17.732	17.694	16.26	15.87		19.08			
	5240	23.86	23.61	17.706	17.795	15.72	15.83		18.79			
U-NII Band 2A	5260	22.60	22.63	17.744	17.702	15.80	15.91		18.87	24.54		
	5300	22.92	23.22	17.755	17.670	15.81	16.02		18.93	24.60		
	5320	22.69	24.19	17.731	17.722	15.83	16.00		18.93	24.56		
U-NII Band 2C	5500	23.33	23.87	17.705	17.755	15.63	15.98		18.82	24.68		
	5580	23.46	22.96	17.744	17.758	15.78	15.81		18.81	24.61		
	5700	23.19	23.77	17.733	17.695	15.86	16.05		18.97	24.65		
	5720	23.70	23.89	17.690	17.815	15.81	16.08		18.96	24.75		
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 (11dBm+10 log B) Note 3
		Emission (6dB)		Occupied (99%)		AUX	Main					
		AUX	Main	AUX	Main							
U-NII Band 3	5745	16.70	17.30	17.689	17.742	15.75	16.20	N/A	18.99	30	N/A	
	5785	10.15	17.33	17.700	17.732	15.79	16.26		19.04			
	5825	12.66	17.64	17.708	17.740	15.85	16.21		19.04			

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)		Occupied (99%)		AUX	Main					
		AUX	Main	AUX	Main							
U-NII Band 1	5190	41.90	42.06	36.063	36.033	15.84	16.05	N/A	18.96	24	N/A	
	5230	42.20	40.32	36.020	36.026	16.32	16.12		19.23			
U-NII Band 2A	5270	41.89	40.88	36.052	35.992	16.34	16.35		19.36	27.12		
	5310	41.86	42.71	35.996	36.102	15.72	15.52		18.63	27.22		
U-NII Band 2C	5510	41.43	43.08	35.931	36.030	16.01	16.09		19.06	27.17		
	5550	41.62	40.05	36.099	35.976	16.21	15.95		19.09	27.03		
	5670	43.27	40.82	36.032	36.019	16.37	16.01		19.20	27.11		
	5710	41.90	41.62	36.063	36.033	16.37	16.03		19.21	27.19		
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)		Occupied (99%)		AUX	Main					
		AUX	Main	AUX	Main							
U-NII Band 3	5755	36.43	31.88	36.023	35.993	16.69	16.60		N/A	19.66	30	N/A
	5795	33.56	35.76	36.039	36.068	16.62	16.73	19.69				

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 (11dBm+10 log B) Note 3
		Emission (26dB)		Occupied (99%)		AUX	Main				
		AUX	Main	AUX	Main						
U-NII Band 1	5210	82.97	84.52	76.833	76.757	14.69	14.17	N/A	17.45	24	N/A
U-NII Band 2A	5290	82.63	82.40	76.600	76.592	14.98	14.55		17.78		30.16
U-NII Band 2C	5530	81.53	82.01	76.521	76.622	15.32	15.41		18.38		30.11
	5610	82.56	83.34	76.533	76.654	15.80	15.72		18.77		30.17
	5690	82.77	83.47	76.763	76.653	15.71	15.81		18.77		30.18
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)		Occupied (99%)		AUX	Main						
AUX	Main	AUX	Main								
U-NII Band 3	5775	68.05	73.96	76.524	82.690	16.17	16.46	N/A	19.33	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 (11dBm+10 log B) Note 3
		Emission (26dB)		Occupied (99%)		AUX	Main				
		AUX	Main	AUX	Main						
U-NII Band 1/2A	5250	163.30	162.90	153.420	153.180	11.48	11.39	N/A	14.45	24	33.12
U-NII Band 2C	5570	163.20	163.10	153.100	153.390	14.89	14.85		17.88		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%.

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)		Occupied (99%)		AUX	Main				
		AUX	Main	AUX	Main						
U-NII Band 1	5180	23.50	24.26	18.881	18.860	16.09	16.08	N/A	19.10	24	N/A
	5200	23.03	22.45	18.930	18.902	16.07	15.95		19.02		
	5240	23.73	23.03	18.869	18.892	15.80	15.94		18.88		
U-NII Band 2A	5260	22.99	21.93	18.920	18.858	15.90	16.03		18.98		24.41
	5300	21.98	23.17	18.860	18.895	15.96	16.16		19.07		24.42
	5320	22.95	22.36	18.907	18.928	15.83	16.14		19.00		24.49
U-NII Band 2C	5500	22.22	22.93	18.878	18.894	15.67	16.13		18.92		24.47
	5580	23.29	22.81	18.905	18.909	15.87	16.01		18.95		24.58
	5700	22.28	23.36	18.932	18.971	15.98	16.15		19.08		24.48
	5720	23.67	23.14	18.947	18.856	15.91	16.21		19.07		24.64
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 (6dB)		Occupied (99%)		AUX	Main				
		AUX	Main	AUX	Main						
U-NII Band 3	5745	18.30	18.93	18.856	18.886	15.87	16.32	N/A	19.11	30	N/A
	5785	17.55	12.63	18.829	18.887	15.84	16.28		19.08		
	5825	12.82	18.85	18.913	18.925	15.93	16.32		19.14		

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 (11dBm+10 log B) Note 3		
		Emission (26dB)		Occupied (99%)		AUX	Main						
		AUX	Main	AUX	Main								
U-NII Band 1	5190	41.17	42.91	37.578	37.581	15.73	15.76	N/A	18.76	24	N/A		
	5230	41.18	41.13	37.474	37.694	16.21	16.07		19.15				
U-NII Band 2A	5270	41.23	42.47	37.635	37.646	16.32	16.06		19.20		27.15		
	5310	41.46	41.30	37.407	37.526	15.56	15.28		18.43		27.16		
U-NII Band 2C	5510	41.49	41.57	37.516	37.420	16.13	16.04		19.10		27.18		
	5550	41.58	42.11	37.618	37.437	16.16	15.93		19.06		27.19		
	5670	41.16	41.41	37.511	37.469	16.37	15.93		19.17		27.14		
	5710	41.13	41.42	37.448	37.499	16.23	16.05		19.15		27.14		
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 (11dBm+10 log B) Note 3
		Emission (6dB)		Occupied (99%)		AUX	Main						
		AUX	Main	AUX	Main								
U-NII Band 3	5755	37.20	32.56	37.416	37.469	16.36	16.34	N/A	19.36	30	N/A		
	5795	29.41	29.99	37.614	37.487	16.43	16.44		19.45				

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 (11dBm+10 log B) Note 3
		Emission (26dB)		Occupied (99%)		AUX	Main				
		AUX	Main	AUX	Main						
U-NII Band 1	5210	84.78	82.87	76.737	76.675	14.33	14.49	N/A	17.42	24	N/A
U-NII Band 2A	5290	82.75	81.55	76.737	76.567	14.78	14.50		17.65		30.11
U-NII Band 2C	5530	81.04	81.56	76.581	76.636	15.09	15.30		18.21		30.09
	5610	81.42	81.40	76.502	76.493	15.61	15.45		18.54		30.11
	5690	82.80	81.31	76.702	76.503	15.47	15.58		18.54		30.10
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)		Occupied (99%)		AUX	Main						
AUX	Main	AUX	Main								
U-NII Band 3	5775	71.75	66.49	76.735	76.536	15.88	16.18	N/A	19.04	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 (11dBm+10 log B) Note 3
		Emission (26dB)		Occupied (99%)		AUX	Main				
		AUX	Main	AUX	Main						
U-NII Band 1/2A	5250	163.80	163.40	154.790	154.670	11.11	11.27	N/A	14.20	24	33.13
U-NII Band 2C	5570	164.40	163.70	154.660	154.650	14.61	14.76		17.70		33.14

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.

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 (11dBm+10 log B) Note 3
			Emission (26dB)		Occupied (99%)							
			AUX	Main	AUX	Main	AUX	Main				
U-NII Band 1	5180	26/0	20.35	20.56	18.588	18.550	9.54	9.68	N/A	24	N/A	
		52/37	20.90	21.29	18.438	18.144	13.04	13.11				
		106/53	22.45	21.96	18.141	18.238	15.89	15.53				
U-NII Band 2A	5320	26/8	19.94	20.30	18.537	18.532	9.63	9.88				
		52/40	21.63	22.50	18.411	18.484	13.19	13.30				
		106/54	22.62	23.43	18.257	17.746	15.46	15.27				
U-NII Band 2C	5500	26/0	20.50	20.47	18.591	18.549	9.74	9.70				
		52/37	21.05	21.47	18.388	18.300	13.25	13.16				
		106/53	19.61	21.71	16.524	17.487	14.89	14.72				
	5700	26/8	19.67	19.97	17.955	18.645	9.68	9.50				
		52/40	21.74	20.61	18.430	18.088	13.09	12.93				
		106/54	20.65	23.37	18.151	17.995	15.95	15.62				

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 (11dBm+10 log B) Note 3
			Emission (6dB)		Occupied (99%)							
			AUX	Main	AUX	Main	AUX	Main				
U-NII Band 3	5745	26/0	2.081	17.020	18.549	18.408	15.34	15.32	N/A	30	N/A	
		52/37	17.040	17.040	18.447	18.370	15.91	15.89				
		106/53	2.087	17.310	18.445	18.260	16.04	16.01				
	5825	26/8	16.990	2.052	18.435	18.624	14.90	15.31				
		52/40	17.180	17.030	18.008	18.366	12.98	13.00				
		106/54	17.070	15.900	18.328	17.826	15.88	15.92				

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 (11dBm+10 log B) Note 3
			Emission (26dB)		Occupied (99%)							
			AUX	Main	AUX	Main	AUX	Main				
U-NII Band 1	5190	242/61	24.89	24.25	18.780	18.724	16.00	15.68	N/A	24	N/A	
U-NII Band 2A	5310	242/62	23.29	23.90	18.670	18.689	17.48	17.40				
U-NII Band 2C	5510	242/61	23.29	20.59	18.701	18.604	15.69	15.67				
	5670	242/62	23.46	21.49	18.776	18.687	16.33	16.17				

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 (11dBm+10 log B) Note 3
			Emission (6dB)		Occupied (99%)							
			AUX	Main	AUX	Main	AUX	Main				
U-NII Band 3	5755	242/61	17.110	18.550	18.695	18.730	15.84	15.83	N/A	30	N/A	
	5795	242/62	16.960	17.990	18.680	18.561	16.30	16.33				

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 (11dBm+10 log B) Note 3
			Emission (26dB)		Occupied (99%)							
			AUX	Main	AUX	Main	AUX	Main				
U-NII Band 1	5210	484/65	40.69	43.43	37.169	37.103	15.21	15.29	N/A	24	N/A	
U-NII Band 2A	5290	484/66	42.10	41.24	37.136	37.181	12.10	12.12			27.15	
U-NII Band 2C	5530	484/65	41.58	43.25	37.219	37.137	15.00	14.89			27.19	
	5610	484/66	40.40	39.82	37.258	37.386	16.04	15.61			27.00	
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 (11dBm+10 log B) Note 3
Emission (6dB)		Occupied (99%)										
AUX	Main	AUX	Main	AUX	Main							
U-NII Band 3	5775	484/65	37.270	33.720	37.166	37.160	15.93	15.87	N/A	30	18.91	
	5775	484/66	36.530	34.840	37.494	37.229	15.90	15.94			18.93	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 (11dBm+10 log B) Note 3
			Emission (26dB)		Occupied (99%)							
			AUX	Main	AUX	Main	AUX	Main				
U-NII Band 1 / 2A	5250	996/67	85.08	81.98	77.006	76.768	14.58	14.62	N/A	24	30.14	
	5250	996/S67	81.44	82.64	77.031	76.771	12.21	12.43			30.11	
U-NII Band 2C	5570	996/67	81.82	83.90	76.814	76.610	14.55	14.65			30.13	
	5570	996/S67	81.15	81.31	76.937	76.671	15.37	15.40			30.09	

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













