

● Test SKU: SKU #1 (With LUXSHARE-ICT ANT)

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 0			RU Index 4			RU Index 8				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE20	5	5955	26T	-6.26	-5.81	0.278	-6.17	-5.87	0.278	-6.23	-5.99	0.278	3.92	1.19
		6175		-7.59	-7.66	0.278	-7.37	-7.41	0.278	-7.61	-7.71	0.278	3.92	-0.18
		6415		-7.83	-8.14	0.278	-7.75	-8.01	0.278	-8.14	-8.25	0.278	2.48	-2.11
	6	6435		-7.93	-8.01	0.278	-7.83	-7.76	0.278	-7.99	-8.11	0.278	2.48	-2.03
		6475		-8.22	-8.12	0.278	-7.91	-8.00	0.278	-8.17	-8.32	0.278	2.48	-2.19
		6515		-8.30	-8.35	0.278	-8.05	-8.20	0.278	-8.34	-8.42	0.278	2.48	-2.36
	7	6535		-9.01	-9.19	0.278	-8.95	-9.02	0.278	-9.31	-9.29	0.278	2.48	-3.22
		6695		-9.61	-9.05	0.278	-9.45	-8.75	0.278	-9.70	-8.97	0.278	2.48	-3.32
		6855		-9.08	-8.65	0.278	-9.02	-8.46	0.278	-9.17	-8.71	0.278	-2.99	-8.43
	8	6875		-9.27	-8.81	0.278	-9.24	-8.60	0.278	-9.47	-8.86	0.278	-2.99	-8.61
		6995		-8.26	-7.95	0.278	-8.17	-7.80	0.278	-8.33	-8.07	0.278	-2.99	-7.68
		7115		-8.14	-7.70	0.278	-7.92	-7.46	0.278	-8.08	-7.68	0.278	-2.99	-7.39

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 0			RU Index 8			RU Index 17				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE40	5	5965	26T	-6.33	-5.98	0.278	-6.20	-5.96	0.278	-6.24	-5.93	0.278	3.92	1.13
		6165		-7.28	-7.43	0.278	-7.41	-7.65	0.278	-7.43	-7.63	0.278	3.92	-0.15
		6405		-7.73	-7.98	0.278	-7.88	-8.14	0.278	-8.02	-8.26	0.278	2.48	-2.08
	6	6445		-7.93	-7.96	0.278	-8.23	-8.09	0.278	-8.14	-8.22	0.278	2.48	-2.18
		6485		-8.06	-8.07	0.278	-8.33	-8.31	0.278	-8.38	-8.38	0.278	2.48	-2.30
		6525		-8.28	-8.31	0.278	-8.42	-8.50	0.278	-8.45	-8.53	0.278	2.48	-2.53
	7	6685		-9.59	-9.01	0.278	-9.73	-9.11	0.278	-9.69	-9.01	0.278	2.48	-3.52
		6845		-8.96	-8.47	0.278	-9.06	-8.65	0.278	-9.29	-8.72	0.278	-2.99	-8.41
		6885		-9.33	-8.75	0.278	-9.43	-8.88	0.278	-9.53	-9.10	0.278	-2.99	-8.73
	8	7005		-8.21	-8.04	0.278	-8.35	-8.25	0.278	-8.41	-8.29	0.278	-2.99	-7.83
		7085		-7.78	-7.38	0.278	-7.96	-7.64	0.278	-8.82	-8.36	0.278	-2.99	-7.28

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 0			RU Index 18			RU Index 36				
				AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>		
802.11ax-HE80	5	5985	26T	-6.42	-5.75	0.278	-5.73	-5.35	0.278	-6.60	-6.16	0.278	3.92	1.67
		6145		-7.31	-7.23	0.278	-7.01	-6.83	0.278	-7.84	-7.61	0.278	3.92	0.29
		6385		-7.86	-7.91	0.278	-7.41	-7.44	0.278	-8.25	-8.18	0.278	2.48	-1.66
	6	6465		-8.51	-8.10	0.278	-7.90	-7.58	0.278	-8.81	-8.46	0.278	2.48	-1.97
		6545		-8.62	-8.41	0.278	-8.28	-8.02	0.278	-9.18	-8.91	0.278	2.48	-2.38
		6625		-9.86	-9.05	0.278	-9.28	-8.50	0.278	-10.09	-9.04	0.278	2.48	-3.10
	7	6705		-9.99	-9.03	0.278	-9.46	-8.43	0.278	-10.18	-9.01	0.278	2.48	-3.15
		6785		-9.18	-8.48	0.278	-8.48	-7.87	0.278	-9.33	-8.57	0.278	2.48	-2.40
		6865		-9.40	-8.61	0.278	-8.95	-8.14	0.278	-9.96	-9.10	0.278	-2.99	-8.23
	8	6945		-8.23	-7.49	0.278	-7.76	-7.10	0.278	-8.76	-7.98	0.278	-2.99	-7.12
		7025		-8.64	-8.10	0.278	-8.30	-7.71	0.278	-9.29	-8.59	0.278	-2.99	-7.70

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 0			RU Index 18			RU Index 36				
				AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>		
802.11ax-HE160 (80L)	5	6025	26T	-7.82	-8.04	0.278	-6.65	-6.69	0.278	-6.40	-6.17	0.278	3.92	0.92
		6185		-9.08	-8.81	0.278	-8.04	-7.81	0.278	-7.73	-7.36	0.278	3.92	-0.33
		6345		-9.62	-8.92	0.278	-8.39	-7.84	0.278	-8.00	-7.44	0.278	2.48	-1.94
	6	6505		-9.80	-9.55	0.278	-8.80	-8.47	0.278	-8.41	-8.12	0.278	2.48	-2.49
		6665		-10.86	-11.02	0.278	-9.64	-9.84	0.278	-9.25	-9.44	0.278	2.48	-3.58
	7	6825		-10.17	-10.43	0.278	-8.86	-9.27	0.278	-8.51	-8.85	0.278	-2.99	-8.38
		6985		-9.40	-9.53	0.278	-8.43	-8.58	0.278	-8.04	-8.06	0.278	-2.99	-7.75

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index S0			RU Index S18			RU Index S36				
				AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>		
802.11ax-HE160 (80H)	5	6025	26T	-6.27	-6.05	0.278	-6.98	-6.67	0.278	-8.61	-8.24	0.278	3.92	1.05
		6185		-7.61	-7.38	0.278	-8.22	-8.04	0.278	-9.68	-9.49	0.278	3.92	-0.29
		6345		-7.90	-7.45	0.278	-8.47	-8.09	0.278	-10.18	-9.70	0.278	2.48	-1.90
	6	6505		-8.27	-8.20	0.278	-9.15	-8.93	0.278	-10.73	-10.53	0.278	2.48	-2.47
		6665		-8.94	-9.44	0.278	-9.54	-9.96	0.278	-10.73	-11.37	0.278	2.48	-3.41
	7	6825		-8.44	-8.96	0.278	-9.07	-9.63	0.278	-10.78	-11.21	0.278	-2.99	-8.39
		6985		-8.05	-8.17	0.278	-8.74	-8.87	0.278	-10.21	-10.45	0.278	-2.99	-7.81

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

**Tones: 52T**

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 37			RU Index 39			RU Index 40				
				AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>		
802.11ax-HE20	5	5955	52T	-3.06	-2.59	0.146	-2.92	-2.65	0.146	-3.00	-2.82	0.146	3.92	4.293
		6175		-4.19	-4.40	0.146	-4.20	-4.32	0.146	-4.31	-4.44	0.146	3.92	2.817
		6415		-4.53	-4.95	0.146	-4.58	-4.95	0.146	-4.81	-5.10	0.146	2.48	0.901
	6	6435		-4.75	-4.87	0.146	-4.59	-4.81	0.146	-4.88	-4.87	0.146	2.48	0.938
		6475		-4.96	-4.99	0.146	-4.91	-4.92	0.146	-4.93	-5.01	0.146	2.48	0.721
		6515		-5.05	-5.17	0.146	-5.00	-5.12	0.146	-5.06	-5.23	0.146	2.48	0.577
	7	6535		-5.82	-5.95	0.146	-5.95	-5.94	0.146	-6.04	-6.11	0.146	2.48	-0.248
		6695		-6.35	-5.80	0.146	-6.26	-5.75	0.146	-6.40	-5.81	0.146	2.48	-0.361
		6855		-5.88	-5.44	0.146	-6.00	-5.41	0.146	-6.04	-5.55	0.146	-2.99	-5.488
	8	6875		-6.13	-5.58	0.146	-5.98	-5.56	0.146	-6.28	-5.68	0.146	-2.99	-5.599
		6995		-5.20	-4.85	0.146	-5.13	-4.76	0.146	-5.21	-4.96	0.146	-2.99	-4.775
		7115		-4.85	-4.56	0.146	-4.86	-4.53	0.146	-8.70	-8.26	0.146	-2.99	-4.526

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 37			RU Index 40			RU Index 44				
				AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>		
802.11ax-HE40	5	5965	52T	-3.30	-2.77	0.146	-3.20	-2.89	0.146	-3.16	-2.91	0.146	3.92	4.05
		6165		-4.17	-4.38	0.146	-4.21	-4.42	0.146	-4.34	-4.48	0.146	3.92	2.80
		6405		-4.52	-5.03	0.146	-4.72	-5.01	0.146	-4.78	-5.17	0.146	2.48	0.87
	6	6445		-4.90	-4.88	0.146	-4.96	-4.89	0.146	-4.97	-5.03	0.146	2.48	0.75
		6485		-5.03	-5.08	0.146	-4.92	-5.06	0.146	-5.03	-5.20	0.146	2.48	0.65
		6525		-5.24	-5.21	0.146	-5.21	-5.34	0.146	-5.12	-5.31	0.146	2.48	0.42
	7	6685		-6.33	-5.89	0.146	-6.34	-5.87	0.146	-6.47	-5.90	0.146	2.48	-0.46
		6845		-5.94	-5.44	0.146	-6.13	-5.48	0.146	-6.18	-5.56	0.146	-2.99	-5.52
		6885		-6.14	-5.64	0.146	-6.38	-5.69	0.146	-6.35	-5.92	0.146	-2.99	-5.72
	8	7005		-5.17	-4.83	0.146	-5.24	-4.99	0.146	-5.43	-5.13	0.146	-2.99	-4.83
		7085		-4.69	-4.33	0.146	-4.75	-4.42	0.146	-5.01	-4.59	0.146	-2.99	-4.34

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 37			RU Index 44			RU Index 52				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE80	5	5985	52T	-3.08	-3.28	0.146	-2.70	-2.82	0.146	-3.33	-3.33	0.146	3.92	4.32
		6145		-4.39	-4.07	0.146	-4.01	-3.90	0.146	-4.80	-4.58	0.146	3.92	3.12
		6385		-5.10	-4.73	0.146	-4.69	-4.46	0.146	-5.49	-5.33	0.146	2.48	1.06
	6	6465		-5.27	-5.37	0.146	-4.93	-5.06	0.146	-5.60	-5.66	0.146	2.48	0.64
		6545		-5.49	-5.64	0.146	-5.23	-5.41	0.146	-5.92	-6.16	0.146	2.48	0.32
		6625		-6.25	-6.84	0.146	-5.81	-6.49	0.146	-6.24	-7.05	0.146	2.48	-0.50
	7	6705		-6.28	-7.07	0.146	-5.70	-6.70	0.146	-6.22	-7.26	0.146	2.48	-0.53
		6785		-5.63	-6.25	0.146	-5.25	-5.89	0.146	-5.77	-6.52	0.146	2.48	0.08
		6865		-5.82	-6.58	0.146	-5.49	-6.41	0.146	-6.24	-7.08	0.146	-2.99	-5.76
	8	6945		-5.09	-5.36	0.146	-4.43	-5.08	0.146	-5.15	-5.67	0.146	-2.99	-4.58
		7025		-5.37	-5.84	0.146	-5.17	-5.58	0.146	-5.81	-6.27	0.146	-2.99	-5.20

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 37			RU Index 44			RU Index 52				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE160 (80L)	5	6025	52T	-4.47	-4.68	0.146	-3.62	-3.49	0.146	-3.11	-3.00	0.146	3.92	4.02
		6185		-5.95	-5.47	0.146	-4.83	-4.57	0.146	-4.42	-4.18	0.146	3.92	2.78
		6345		-6.49	-5.88	0.146	-5.31	-4.73	0.146	-4.70	-4.27	0.146	2.48	1.16
	6	6505		-6.72	-6.54	0.146	-5.60	-5.52	0.146	-5.31	-5.05	0.146	2.48	0.46
		6665		-7.69	-8.02	0.146	-6.50	-6.92	0.146	-5.97	-6.34	0.146	2.48	-0.51
		6825		-7.18	-7.40	0.146	-5.91	-6.34	0.146	-5.40	-5.97	0.146	-2.99	-5.51
	8	6985		-6.12	-6.53	0.146	-5.26	-5.46	0.146	-4.90	-5.17	0.146	-2.99	-4.87

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index S37			RU Index S44			RU Index S52				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE160 (80H)	5	6025	52T	-3.06	-3.09	0.146	-3.84	-3.56	0.146	-5.45	-5.10	0.146	3.92	4.00
		6185		-4.54	-4.21	0.146	-5.10	-4.89	0.146	-6.47	-6.39	0.146	3.92	2.70
		6345		-4.78	-4.37	0.146	-5.32	-4.94	0.146	-7.14	-6.47	0.146	2.48	1.07
	6	6505		-5.16	-5.10	0.146	-5.99	-5.68	0.146	-7.53	-7.35	0.146	2.48	0.51
		6665		-6.04	-6.47	0.146	-6.42	-6.98	0.146	-7.71	-8.34	0.146	2.48	-0.61
		6825		-5.40	-6.02	0.146	-6.05	-6.60	0.146	-7.76	-8.25	0.146	-2.99	-5.53
	8	6985		-4.79	-5.22	0.146	-5.66	-5.78	0.146	-7.33	-7.43	0.146	-2.99	-4.83

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

**Tones: 106T**

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)						Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 53			RU Index 54				
				AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>		
802.11ax-HE20	5	5955	106T	-0.05	0.22	N/A	-0.05	0.28	N/A	3.92	7.05
		6175		-1.03	-1.21	N/A	-1.24	-1.30	N/A	3.92	5.81
		6415		-1.47	-1.87	N/A	-1.56	-2.00	N/A	2.48	3.82
	6	6435		-1.72	-1.66	N/A	-1.69	-1.72	N/A	2.48	3.80
		6475		-1.72	-1.84	N/A	-1.96	-1.90	N/A	2.48	3.71
		6515		-1.90	-1.93	N/A	-1.89	-2.00	N/A	2.48	3.58
	7	6535		-2.78	-2.98	N/A	-2.90	-2.97	N/A	2.48	2.61
		6695		-3.44	-2.82	N/A	-3.33	-2.77	N/A	2.48	2.45
		6855		-2.96	-2.34	N/A	-3.05	-2.43	N/A	-2.99	-2.62
	8	6875		-2.97	-2.48	N/A	-3.09	-2.61	N/A	-2.99	-2.70
		6995		-1.92	-1.69	N/A	-1.97	-1.77	N/A	-2.99	-1.78
		7115		-1.84	-1.41	N/A	-8.68	-8.14	N/A	-2.99	-1.60

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 53			RU Index 54			RU Index 56				
				AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor $10\log(1/X)$ <sup>Note 3</sup>		
802.11ax-HE40	5	5965	106T	-0.14	0.16	N/A	-0.07	0.19	N/A	-0.10	0.07	N/A	3.92	6.99
		6165		-1.13	-1.30	N/A	-1.19	-1.34	N/A	-1.31	-1.45	N/A	3.92	5.72
		6405		-1.56	-1.89	N/A	-1.51	-1.93	N/A	-1.79	-2.10	N/A	2.48	3.78
	6	6445		-1.79	-1.85	N/A	-1.72	-1.76	N/A	-1.83	-1.88	N/A	2.48	3.75
		6485		-1.95	-1.96	N/A	-1.83	-2.00	N/A	-2.13	-2.10	N/A	2.48	3.58
	7	6525		-2.08	-2.15	N/A	-2.12	-2.19	N/A	-2.19	-2.39	N/A	2.48	3.38
		6685		-3.30	-2.85	N/A	-3.34	-2.85	N/A	-3.42	-2.86	N/A	2.48	2.42
		6845		-2.86	-2.39	N/A	-3.02	-2.40	N/A	-3.22	-2.62	N/A	-2.99	-2.60
	8	6885		-3.13	-2.60	N/A	-3.24	-2.67	N/A	-3.47	-2.85	N/A	-2.99	-2.84
		7005		-2.17	-1.84	N/A	-2.12	-1.83	N/A	-2.30	-2.04	N/A	-2.99	-1.95
		7085		-1.83	-1.38	N/A	-1.82	-1.40	N/A	-1.91	-1.54	N/A	-2.99	-1.58

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 53			RU Index 56			RU Index 60				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE80	5	5985	106T	-0.18	-0.21	N/A	0.29	0.21	N/A	-0.54	-0.34	N/A	3.92	7.18
		6145		-1.48	-1.24	N/A	-1.26	-1.03	N/A	-1.81	-1.58	N/A	3.92	5.79
		6385		-2.19	-1.84	N/A	-1.88	-1.63	N/A	-2.44	-2.23	N/A	2.48	3.74
	6	6465		-2.11	-2.44	N/A	-1.92	-2.23	N/A	-2.47	-2.75	N/A	2.48	3.42
		6545		-2.46	-2.72	N/A	-2.35	-2.53	N/A	-2.98	-3.20	N/A	2.48	3.05
		7		6625	-3.24	-3.94	N/A	-2.88	-3.62	N/A	-3.34	-4.09	N/A	2.48
	6705			-3.12	-4.19	N/A	-2.74	-3.86	N/A	-3.12	-4.32	N/A	2.48	2.23
	6785			-2.16	-2.94	N/A	-1.96	-2.72	N/A	-2.56	-3.43	N/A	2.48	3.17
	8	6865		-2.55	-3.29	N/A	-2.32	-3.15	N/A	-3.00	-3.82	N/A	-2.99	-2.69
		6945		-1.57	-2.10	N/A	-1.30	-1.82	N/A	-2.09	-2.47	N/A	-2.99	-1.53
		7025		-2.14	-2.49	N/A	-1.91	-2.34	N/A	-2.74	-2.93	N/A	-2.99	-2.10

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>	
				RU Index 53			RU Index 56			RU Index 60					
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>			
802.11ax-HE160 (80L)	5	6025	106T	-1.40	-1.50	N/A	-0.58	-0.47	N/A	-0.21	0.08	N/A	3.92	6.87	
		6185		-2.70	-2.48	N/A	-1.84	-1.60	N/A	-1.44	-1.22	N/A	3.92	5.60	
		6345		-3.45	-2.72	N/A	-2.39	-1.73	N/A	-1.84	-1.21	N/A	2.48	3.98	
	6	6505		-3.35	-3.33	N/A	-2.36	-2.39	N/A	-2.07	-1.95	N/A	2.48	3.48	
		7		6665	-4.59	-4.73	N/A	-3.64	-3.77	N/A	-2.99	-3.22	N/A	2.48	2.39
				6825	-3.97	-3.92	N/A	-3.20	-3.02	N/A	-2.63	-2.55	N/A	-2.99	-2.57
	8	6985		-3.10	-3.06	N/A	-2.16	-2.15	N/A	-1.86	-1.81	N/A	-2.99	-1.81	

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>	
				RU Index S53			RU Index S56			RU Index S60					
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>			
802.11ax-HE160 (80H)	5	6025	106T	-0.11	0.08	N/A	-0.78	-0.41	N/A	-2.30	-1.97	N/A	3.92	6.92	
		6185		-1.46	-1.22	N/A	-1.97	-1.70	N/A	-3.33	-3.26	N/A	3.92	5.59	
		6345		-1.71	-1.26	N/A	-2.21	-1.73	N/A	-3.74	-3.26	N/A	2.48	4.01	
	6	6505		-2.18	-1.98	N/A	-2.67	-2.57	N/A	-4.26	-4.09	N/A	2.48	3.41	
		7		6665	-3.23	-3.32	N/A	-3.83	-3.74	N/A	-5.14	-5.11	N/A	2.48	2.22
				6825	-2.69	-2.63	N/A	-3.23	-3.24	N/A	-4.63	-4.80	N/A	-2.99	-2.64
	8	6985		-1.94	-1.79	N/A	-2.54	-2.37	N/A	-4.01	-3.91	N/A	-2.99	-1.84	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).



**Tones: 242T**

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)			Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 61				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE20	5	5955	242T	1.78	2.31	0.15	3.92	9.13
		6175		1.84	2.31	0.15	3.92	9.16
		6415		1.59	2.22	0.15	2.48	7.56
	6	6435		1.08	1.74	0.15	2.48	7.06
		6475		1.16	1.66	0.15	2.48	7.06
		6515		1.38	1.61	0.15	2.48	7.14
	7	6535		1.23	1.44	0.15	2.48	6.98
		6695		1.31	1.61	0.15	2.48	7.10
		6855		1.29	1.61	0.15	-2.99	1.62
	8	6875		0.75	0.99	0.15	-2.99	1.04
		6995		0.62	0.78	0.15	-2.99	0.87
		7115		-3.22	-2.75	0.15	-2.99	-2.81

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)						Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 61			RU Index 62				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE40	5	5965	242T	1.63	1.17	0.15	1.6	1.09	0.15	3.92	8.49
		6165		1.46	1.23	0.15	1.3	1.06	0.15	3.92	8.43
		6405		1.43	1.3	0.15	1.36	1.31	0.15	2.48	7.01
	6	6445		0.72	0.95	0.15	1.03	0.83	0.15	2.48	6.57
		6485		0.98	0.79	0.15	0.71	1.24	0.15	2.48	6.62
	7	6525		1.09	0.78	0.15	1.81	1.38	0.15	2.48	7.24
		6685		0.85	0.02	0.15	1.02	0.06	0.15	2.48	6.21
		6845		0.76	-0.16	0.15	1	0.02	0.15	-2.99	0.71
	8	6885		0.49	-0.27	0.15	0.43	-0.26	0.15	-2.99	0.30
		7005		0.47	-0.49	0.15	0.55	-0.32	0.15	-2.99	0.31
		7085		0.52	-0.06	0.15	0.81	0.35	0.15	-2.99	0.76

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 61			RU Index 62			RU Index 64				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE80	5	5985	242T	2.12	2.55	0.15	2.13	2.78	0.15	2.01	2.28	0.15	3.92	9.55
		6145		2.26	2.42	0.15	2.09	2.46	0.15	1.88	2.19	0.15	3.92	9.42
		6385		1.83	2.02	0.15	2.12	2.23	0.15	2.03	2.2	0.15	2.48	7.82
	6	6465		1.58	1.46	0.15	2.5	2.52	0.15	1.53	1.55	0.15	2.48	8.15
		6545		0.98	1.87	0.15	1.94	2.79	0.15	1.76	2.31	0.15	2.48	8.03
		7		6625	0.6	1.55	0.15	0.87	1.72	0.15	0.61	1.49	0.15	2.48
	6705			0.77	1.56	0.15	0.87	1.71	0.15	0.62	1.5	0.15	2.48	6.95
	6785			0.64	1.41	0.15	0.69	1.54	0.15	0.62	1.54	0.15	2.48	6.78
	8	6865		0.55	1.24	0.15	0.92	1.74	0.15	0.22	0.69	0.15	-2.99	1.52
		6945		0.19	0.77	0.15	1.11	1.77	0.15	0.07	0.75	0.15	-2.99	1.62
		7025		-0.1	0.74	0.15	0.91	1.77	0.15	-0.21	1.02	0.15	-2.99	1.53

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>	
				RU Index 61			RU Index 62			RU Index 64					
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>			
802.11ax-HE160 (80L)	5	6025	242T	1.66	2.42	0.15	1.97	2.71	0.15	1.44	2.3	0.15	3.92	9.44	
		6185		1.6	2.11	0.15	1.91	2.59	0.15	1.54	2.15	0.15	3.92	9.34	
		6345		1.62	2.16	0.15	1.98	2.37	0.15	1.47	2.11	0.15	2.48	7.82	
	6	6505		1.29	1.53	0.15	2.26	2.69	0.15	1.17	1.58	0.15	2.48	8.12	
		7		6665	-0.12	1.06	0.15	0.29	1.58	0.15	-0.08	1.5	0.15	2.48	6.62
				6825	-0.38	1.17	0.15	0.03	1.35	0.15	-0.45	1	0.15	-2.99	0.91
	8	6985		-0.75	0.37	0.15	0.43	1.7	0.15	-0.89	0.61	0.15	-2.99	1.28	

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)									Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>	
				RU Index S61			RU Index S62			RU Index S64					
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>			
802.11ax-HE160 (80H)	5	6025	242T	1.28	2.48	0.15	1.25	2.25	0.15	1.46	2.29	0.15	3.92	9.00	
		6185		1.42	2.1	0.15	1.32	2.21	0.15	1.6	2.21	0.15	3.92	9.00	
		6345		1.41	1.97	0.15	1.41	2.05	0.15	1.68	2.27	0.15	2.48	7.63	
	6	6505		1.14	1.76	0.15	1.84	2.36	0.15	1.59	2.21	0.15	2.48	7.75	
		7		6665	-0.44	1.15	0.15	-0.61	1.05	0.15	-0.67	1.29	0.15	2.48	6.07
				6825	-0.68	1.08	0.15	0.1	1.13	0.15	-0.5	0.65	0.15	-2.99	0.82
	8	6985		-0.91	0.53	0.15	-0.01	1.28	0.15	-0.65	0.62	0.15	-2.99	0.85	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).



**Tones: 484T**

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)			Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 65				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE40	5	5965	484T	5.09	5.37	N/A	3.92	12.16
		6165		4.92	5.36	N/A	3.92	12.08
		6405		4.8	5.16	N/A	2.48	10.47
	6	6445		4.92	5.42	N/A	2.48	10.67
		6485		5.03	5.42	N/A	2.48	10.72
		7		6525	5.16	5.29	N/A	2.48
	6685			4.34	4.68	N/A	2.48	10.00
	6845			4.34	4.54	N/A	-2.99	4.46
	8	6885		4.43	4.74	N/A	-2.99	4.61
		7005		4.35	4.41	N/A	-2.99	4.40
		7085		4.5	4.78	N/A	-2.99	4.66

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)						Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 65			RU Index 66				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE80	5	5985	484T	5.12	5.21	N/A	5.05	5.27	N/A	3.92	12.10
		6145		5.11	5.14	N/A	5.19	5.13	N/A	3.92	12.09
		6385		4.73	4.97	N/A	5.13	5.04	N/A	2.48	10.58
	6	6465		5.18	4.94	N/A	5.06	5.24	N/A	2.48	10.64
		6545		4.77	5.42	N/A	4.87	5.07	N/A	2.48	10.60
		7		6625	4	4.35	N/A	4.04	4.31	N/A	2.48
	6705			4.1	4.33	N/A	3.99	4.48	N/A	2.48	9.73
	6785			3.94	4.37	N/A	3.96	4.49	N/A	2.48	9.72
	8	6865		3.96	4.45	N/A	4.25	4.42	N/A	-2.99	4.36
		6945		4.22	4.25	N/A	4	4.45	N/A	-2.99	4.26
		7025		4.01	4.34	N/A	4.22	4.44	N/A	-2.99	4.35

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)						Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 65			RU Index 66				
				AUX	Main	Duty Cycle Factor <sup>Note 3</sup> 10log(1/X)	AUX	Main	Duty Cycle Factor <sup>Note 3</sup> 10log(1/X)		
802.11ax-HE160 (80L)	5	6025	484T	4.67	5.05	N/A	4.45	5.1	N/A	3.92	11.79
		6185		4.73	4.96	N/A	4.75	4.95	N/A	3.92	11.78
		6345		4.65	4.94	N/A	4.68	4.92	N/A	2.48	10.29
	6	6505		5.01	4.78	N/A	4.85	5.16	N/A	2.48	10.50
	7	6665		3.76	4.15	N/A	3.36	4.03	N/A	2.48	9.45
		6825		3.56	4.19	N/A	3.46	4.32	N/A	-2.99	3.93
		6985		3.87	4.09	N/A	3.69	4.47	N/A	-2.99	4.12

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)						Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index S65			RU Index S66				
				AUX	Main	Duty Cycle Factor <sup>Note 3</sup> 10log(1/X)	AUX	Main	Duty Cycle Factor <sup>Note 3</sup> 10log(1/X)		
802.11ax-HE160 (80H)	5	6025	484T	4.46	5.09	N/A	4.52	5.01	N/A	3.92	11.72
		6185		4.49	4.97	N/A	4.57	4.86	N/A	3.92	11.67
		6345		4.34	4.79	N/A	4.68	4.93	N/A	2.48	10.30
	6	6505		4.66	5.15	N/A	4.68	5.11	N/A	2.48	10.40
	7	6665		3.71	4.26	N/A	3.6	4.31	N/A	2.48	9.48
		6825		3.6	4.21	N/A	3.68	4.27	N/A	-2.99	4.01
		6985		3.72	4.21	N/A	3.76	4.37	N/A	-2.99	4.10

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

**Tones: 996T**

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)			Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 67				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE80	5	5985	996T	7.07	6.42	0.159	3.92	13.85
		6145		6.97	6.19	0.159	3.92	13.69
		6385		7.15	6.56	0.159	2.48	12.51
	6	6465		7.03	6.2	0.159	2.48	12.28
		6545		7.05	6.2	0.159	2.48	12.30
	7	6625		6.45	5.41	0.159	2.48	11.61
		6705		6.11	5.21	0.159	2.48	11.33
		6785		5.99	5.13	0.159	2.48	11.23
	8	6865		5.98	5.32	0.159	-2.99	5.84
		6945		6.23	5.57	0.159	-2.99	6.09
		7025		6.35	5.68	0.159	-2.99	6.21

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)						Directional Antenna Gain (dBi) <sup>Note 4</sup>	Max EIRP (dBm) <sup>Note 5</sup>
				RU Index 67			RU Index S67				
				AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>	AUX	Main	Duty Cycle Factor 10log(1/X) <sup>Note 3</sup>		
802.11ax-HE160	5	6025	996T	7.08	6.61	0.159	7.12	6.45	0.159	3.92	13.94
		6185		7.05	6.37	0.159	7.34	6.6	0.159	3.92	14.08
		6345		7.44	6.69	0.159	7.24	6.75	0.159	3.92	14.09
	6	6505		6.67	5.92	0.159	6.67	6	0.159	2.48	12.00
		6665		6.6	5.5	0.159	6.26	5.49	0.159	2.48	11.73
	7	6825		6.25	5.46	0.159	5.79	5.13	0.159	-2.99	6.05
		6985		5.96	5.52	0.159	6.08	5.29	0.159	-2.99	5.92

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. EIRP limit is 24dBm

3. Duty cycle factor is not applicable for duty cycle > 98%.

4. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

Directional gain:

$$5925\text{MHz: Directional gain} = 10 \log[(10^{4.7/10} + 10^{2.9/10})/2] = 3.92\text{dBi}$$

$$6525\text{MHz: Directional gain} = 10 \log[(10^{1.3/10} + 10^{3.4/10})/2] = 2.48\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-1.6/10} + 10^{-4.9/10})/2] = -2.99\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

5. Max EIRP (dBm) = Max of Average Conducted Output Power (dBm) [ANT A (AUX)+ ANT B (Main)+ Duty Cycle Factor(dB)]+ Directional gain (dBi).

## A.4 CONTENTION BASED PROTOCOL

Test Date	2023/07/03	Temp./Hum.	25°C/52%
Cable Loss	N/A	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

### A.4.1 Contention-based Protocol

● Contention-based Protocol Threshold Incumbent Signal & Mini. Detection level

Mode	U-NII Band	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax-HE20	5	6135	6135	-76.20	0.11	-76.31	-62	OFF
			6135	-82.20	0.11	-82.31	-62	Minimum
			6135	-84.20	0.11	-84.31	-62	ON
	6	6455	6455	-75.90	0.11	-76.01	-62	OFF
			6455	-80.90	0.11	-81.01	-62	Minimum
			6455	-82.90	0.11	-83.01	-62	ON
	7	6695	6695	-74.00	0.11	-74.11	-62	OFF
			6695	-80.00	0.11	-80.11	-62	Minimum
			6695	-82.00	0.11	-82.11	-62	ON
	8	7015	7015	-74.00	0.11	-74.11	-62	OFF
			7015	-79.00	0.11	-79.11	-62	Minimum
			7015	-81.00	0.11	-81.11	-62	ON

Note 1: the listed Min. gain of EUT was included path loss.

Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) \*Note1.

Note 3: The AWGN level is reported for the following conditions:

- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Note 4: The EUT don't support channel puncturing or BW reduction mechanism.

Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.

Mode	U-NII Band	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status	
802.11ax-HE160	5	6185	6110	-80.50	0.11	-80.61	-62	OFF	
			6110	-81.50	0.11	-81.61	-62	Minimum	
			6110	-82.50	0.11	-82.61	-62	ON	
			6185	-73.50	0.11	-73.61	-62	OFF	
			6185	-76.50	0.11	-76.61	-62	Minimum	
			6185	-79.50	0.11	-79.61	-62	ON	
			6260	-72.90	0.11	-73.01	-62	OFF	
			6260	-74.90	0.11	-75.01	-62	Minimum	
	6-7	6505	6260	-76.90	0.11	-77.01	-62	ON	
			6430	-74.30	0.11	-74.41	-62	OFF	
			6430	-80.30	0.11	-80.41	-62	Minimum	
			6430	-81.30	0.11	-81.41	-62	ON	
			6505	-73.00	0.11	-73.11	-62	OFF	
			6505	-76.00	0.11	-76.11	-62	Minimum	
			6505	-77.00	0.11	-77.11	-62	ON	
			6580	-70.80	0.11	-70.91	-62	OFF	
	7	6665	6580	-73.80	0.11	-73.91	-62	Minimum	
			6580	-75.80	0.11	-75.91	-62	ON	
			6590	-75.80	0.11	-75.91	-62	OFF	
			6590	-80.80	0.11	-80.91	-62	Minimum	
			6590	-82.80	0.11	-82.91	-62	ON	
			6665	-70.60	0.11	-70.71	-62	OFF	
			6665	-75.60	0.11	-75.71	-62	Minimum	
			6665	-77.60	0.11	-77.71	-62	ON	
	8	6985	6740	-72.00	0.11	-72.11	-62	OFF	
			6740	-75.00	0.11	-75.11	-62	Minimum	
			6740	-77.00	0.11	-77.11	-62	ON	
			6910	-79.00	0.11	-79.11	-62	OFF	
			6910	-81.00	0.11	-81.11	-62	Minimum	
			6910	-83.00	0.11	-83.11	-62	ON	
			6985	-73.30	0.11	-73.41	-62	OFF	
			6985	-75.30	0.11	-75.41	-62	Minimum	
				6985	-77.30	0.11	-77.41	-62	ON
				7060	-72.50	0.11	-72.61	-62	OFF
				7060	-73.50	0.11	-73.61	-62	Minimum
				7060	-76.50	0.11	-76.61	-62	ON

Note 1: the listed Min. gain of EUT was included path loss.

Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) \*Note1.

Note 3: The AWGN level is reported for the following conditions:

- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Note 4: The EUT don't support channel puncturing or BW reduction mechanism.

Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.

● Summary table

Mode	U-NII Band	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)
802.11ax-HE20	5	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90
	6	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90
	7	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90
	8	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax-HE160	5	6185	6110	1	1	1	1	1	1	1	1	1	1	100	90
			6185	1	1	1	1	1	1	1	1	1	1	100	90
			6260	1	1	1	1	1	1	1	1	1	1	100	90
	6-7	6505	6430	1	1	1	1	1	1	1	1	1	1	100	90
			6505	1	1	1	1	1	1	1	1	1	1	100	90
			6580	1	1	1	1	1	1	1	1	1	1	100	90
	7	6665	6590	1	1	1	1	1	1	1	1	1	1	100	90
			6665	1	1	1	1	1	1	1	1	1	1	100	90
			6740	1	1	1	1	1	1	1	1	1	1	100	90
	8	6985	6910	1	1	1	1	1	1	1	1	1	1	100	90
			6985	1	1	1	1	1	1	1	1	1	1	100	90
			7060	1	1	1	1	1	1	1	1	1	1	100	90

Note: CBP Detection Trials (1= Detection, 0= No Detection)



A.4.2 Measurement Plots





