

Maximum Conducted Output Power

U-NII 8

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	ANT1	6875	-2.63	/	/	24	Pass
		6895	-2.80	/	/	24	Pass
		6995	-2.29	/	/	24	Pass
		7115	-1.86	/	/	24	Pass
	ANT2	6875	-1.52	/	/	24	Pass
		6895	-1.55	/	/	24	Pass
		6995	-0.24	/	/	24	Pass
		7115	0.22	/	/	24	Pass
	Total	6875	0.97	2.60	3.57	24	Pass
		6895	0.88	2.60	3.48	24	Pass
		6995	1.87	2.60	4.47	24	Pass
		7115	2.31	2.60	4.91	24	Pass
802.11ax20	ANT1	6875	-2.46	/	/	24	Pass
		6895	-2.69	/	/	24	Pass
		6995	-2.47	/	/	24	Pass
		7115	-10.30	/	/	24	Pass
	ANT2	6875	-1.25	/	/	24	Pass
		6895	-1.29	/	/	24	Pass
		6995	-0.20	/	/	24	Pass
		7115	-7.68	/	/	24	Pass
	Total	6875	1.20	5.61	6.81	24	Pass
		6895	1.08	5.61	6.69	24	Pass
		6995	1.82	5.61	7.43	24	Pass
		7115	-5.79	5.61	-0.18	24	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11ax40	ANT1	6885	0.51	/	/	24	Pass
		6925	-0.14	/	/	24	Pass
		6965	-0.37	/	/	24	Pass
		7085	2.02	/	/	24	Pass
	ANT2	6885	1.86	/	/	24	Pass
		6925	1.39	/	/	24	Pass
		6965	1.54	/	/	24	Pass
		7085	3.96	/	/	24	Pass
	Total	6885	4.25	5.61	9.86	24	Pass
		6925	3.70	5.61	9.31	24	Pass
		6965	3.70	5.61	9.31	24	Pass
		7085	6.11	5.61	11.72	24	Pass
802.11ax80	ANT1	6945	0.49	/	/	24	Pass
		7025	2.18	/	/	24	Pass
	ANT2	6945	2.34	/	/	24	Pass
		7025	4.68	/	/	24	Pass
	Total	6945	4.52	5.61	10.13	24	Pass
		7025	6.62	5.61	12.23	24	Pass
802.11ax160	ANT1	6985	6.58	/	/	24	Pass
	ANT2	6985	9.03	/	/	24	Pass
	Total	6985	10.99	5.61	16.60	24	Pass

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Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	ANT1	5955	0.36	/	/	24	Pass
		6175	-0.22	/	/	24	Pass
		6415	-1.47	/	/	24	Pass
	ANT2	5955	0.80	/	/	24	Pass
		6175	-0.10	/	/	24	Pass
		6415	-0.02	/	/	24	Pass
	Total	5955	3.60	2.60	6.20	24	Pass
		6175	2.85	2.60	5.45	24	Pass
		6415	2.33	2.60	4.93	24	Pass
802.11ax20	ANT1	5955	0.51	/	/	24	Pass
		6175	-0.11	/	/	24	Pass
		6415	-1.09	/	/	24	Pass
	ANT2	5955	1.09	/	/	24	Pass
		6175	0.04	/	/	24	Pass
		6415	0.15	/	/	24	Pass
	Total	5955	3.82	5.61	9.43	24	Pass
		6175	2.98	5.61	8.59	24	Pass
		6415	2.58	5.61	8.19	24	Pass
802.11ax40	ANT1	5965	2.39	/	/	24	Pass
		6165	3.03	/	/	24	Pass
		6405	1.97	/	/	24	Pass
	ANT2	5965	2.97	/	/	24	Pass
		6165	2.89	/	/	24	Pass
		6405	3.15	/	/	24	Pass
	Total	5965	5.70	5.61	11.31	24	Pass
		6165	5.97	5.61	11.58	24	Pass
		6405	5.61	5.61	11.22	24	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11ax80	ANT1	5985	5.56	/	/	24	Pass
		6145	3.87	/	/	24	Pass
		6385	1.86	/	/	24	Pass
	ANT2	5985	6.20	/	/	24	Pass
		6145	4.13	/	/	24	Pass
		6385	3.44	/	/	24	Pass
	Total	5985	8.90	5.61	14.51	24	Pass
		6145	7.01	5.61	12.62	24	Pass
		6385	5.73	5.61	11.34	24	Pass
802.11ax160	ANT1	6025	8.44	/	/	24	Pass
		6185	7.45	/	/	24	Pass
		6345	6.42	/	/	24	Pass
	ANT2	6025	9.31	/	/	24	Pass
		6185	7.62	/	/	24	Pass
		6345	7.28	/	/	24	Pass
	Total	6025	11.91	5.61	17.52	24	Pass
		6185	10.55	5.61	16.16	24	Pass
		6345	9.88	5.61	15.49	24	Pass

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Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	ANT1	6435	-4.10	/	/	24	Pass
		6475	-2.93	/	/	24	Pass
		6515	-3.28	/	/	24	Pass
	ANT2	6435	-2.23	/	/	24	Pass
		6475	-1.60	/	/	24	Pass
		6515	-1.90	/	/	24	Pass
	Total	6435	-0.05	2.60	2.55	24	Pass
		6475	0.80	2.60	3.40	24	Pass
		6515	0.47	2.60	3.07	24	Pass
802.11ax20	ANT1	6435	-0.73	/	/	24	Pass
		6475	-2.95	/	/	24	Pass
		6515	-2.14	/	/	24	Pass
	ANT2	6435	0.47	/	/	24	Pass
		6475	-1.29	/	/	24	Pass
		6515	-0.63	/	/	24	Pass
	Total	6435	2.92	5.61	8.53	24	Pass
		6475	0.97	5.61	6.58	24	Pass
		6515	1.69	5.61	7.30	24	Pass
802.11ax40	ANT1	6525	1.90	/	/	24	Pass
		6445	2.46	/	/	24	Pass
		6485	2.12	/	/	24	Pass
	ANT2	6525	3.91	/	/	24	Pass
		6445	3.48	/	/	24	Pass
		6485	3.55	/	/	24	Pass
	Total	6525	6.03	5.61	11.64	24	Pass
		6445	6.01	5.61	11.62	24	Pass
		6485	5.90	5.61	11.51	24	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11ax80	ANT1	6545	2.43	/	/	24	Pass
		6465	2.97	/	/	24	Pass
	ANT2	6545	4.40	/	/	24	Pass
		6465	4.28	/	/	24	Pass
	Total	6545	6.54	5.61	12.15	24	Pass
		6465	6.68	5.61	12.29	24	Pass
802.11ax160	ANT1	6505	6.74	/	/	24	Pass
	ANT2	6505	8.53	/	/	24	Pass
	Total	6505	10.74	5.61	16.35	24	Pass

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Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	ANT1	6535	-1.37	/	/	24	Pass
		6695	0.96	/	/	24	Pass
		6855	-2.30	/	/	24	Pass
	ANT2	6535	0.66	/	/	24	Pass
		6695	0.77	/	/	24	Pass
		6855	-1.24	/	/	24	Pass
	Total	6535	2.77	2.60	5.37	24	Pass
		6695	3.88	2.60	6.48	24	Pass
		6855	1.27	2.60	3.87	24	Pass
802.11ax20	ANT1	6535	-2.20	/	/	24	Pass
		6695	0.04	/	/	24	Pass
		6855	-2.19	/	/	24	Pass
	ANT2	6535	-0.23	/	/	24	Pass
		6695	-0.08	/	/	24	Pass
		6855	-1.05	/	/	24	Pass
	Total	6535	1.91	5.61	7.52	24	Pass
		6695	2.99	5.61	8.60	24	Pass
		6855	1.43	5.61	7.04	24	Pass
802.11ax40	ANT1	6565	0.77	/	/	24	Pass
		6685	2.51	/	/	24	Pass
		6845	1.14	/	/	24	Pass
	ANT2	6565	2.28	/	/	24	Pass
		6685	2.49	/	/	24	Pass
		6845	2.12	/	/	24	Pass
	Total	6565	4.60	5.61	10.21	24	Pass
		6685	5.51	5.61	11.12	24	Pass
		6845	4.67	5.61	10.28	24	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Directional Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11ax80	ANT1	6865	0.97	/	/	24	Pass
		6625	2.53	/	/	24	Pass
		6705	2.88	/	/	24	Pass
		6785	2.62	/	/	24	Pass
	ANT2	6865	2.73	/	/	24	Pass
		6625	3.11	/	/	24	Pass
		6705	2.77	/	/	24	Pass
		6785	3.13	/	/	24	Pass
	Total	6865	4.95	5.61	10.56	24	Pass
		6625	5.84	5.61	11.45	24	Pass
		6705	5.84	5.61	11.45	24	Pass
		6785	5.89	5.61	11.50	24	Pass
802.11ax160	ANT1	6825	6.91	/	/	24	Pass
		6665	7.71	/	/	24	Pass
	ANT2	6825	8.00	/	/	24	Pass
		6665	7.98	/	/	24	Pass
	Total	6825	10.50	5.61	16.11	24	Pass
		6665	10.86	5.61	16.47	24	Pass

Note:

EIRP=Output Power+ Directional Gain

The EUT employ CDD for MIMO

Directional Gain = $G_{ANT} + \text{Array Gain}$, $G_{ANT} = 2.6\text{dBi}$

For Output Power Measurement,

For 802.11a mode, Array Gain = 0dB for $N_{ANT} \leq 4$

Directional Gain = $2.6\text{dBi} + 0\text{dB} = 2.6\text{dBi} < 6\text{dBi}$

For 802.11ac/ax mode, the device support beam-forming function.

Directional Gain = $G_{ANT} + 10 \cdot \log(2/1) = 5.61\text{dBi} < 6\text{dBi}$

Non-Beam Forming mode share the same power with the Beam Forming mode.