

Appendix A. Test Data

Duty cycle						
Band	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	5180	2.110	2.115	99.764	0.010	0.010
802.11n HT20	5180	10.000	10.000	100.000	0.000	0.010
802.11n HT40	5190	10.000	10.000	100.000	0.000	0.010
802.11ac VHT20	5180	10.000	10.000	100.000	0.000	0.010
802.11ac VHT40	5190	10.000	10.000	100.000	0.000	0.010
802.11ac VHT80	5210	10.000	10.000	100.000	0.000	0.010
802.11ac VHT160	5250	10.000	10.000	100.000	0.000	0.010
802.11ax HE20	5180	10.000	10.000	100.000	0.000	0.010
802.11ax HE40	5190	10.000	10.000	100.000	0.000	0.010
802.11ax HE80	5210	10.000	10.000	100.000	0.000	0.010
802.11ax HE160	5250	10.000	10.000	100.000	0.000	0.010

Maximum Conducted Output Power Measurement									
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11a	6M	36	5180	17.58	17.66	-	-	20.63	24.00
		40	5200	17.58	17.54	-	-	20.57	24.00
		44	5220	17.74	17.50	-	-	20.63	24.00
		48	5240	17.61	17.55	-	-	20.59	24.00
		52	5260	17.61	17.89	-	-	20.76	24.00
		56	5280	17.81	17.67	-	-	20.75	24.00
		60	5300	17.61	17.75	-	-	20.69	24.00
		64	5320	17.66	17.72	-	-	20.70	24.00
		100	5500	17.61	17.53	-	-	20.58	24.00
		112	5560	17.64	17.61	-	-	20.64	24.00
		116	5580	17.64	17.61	-	-	20.64	24.00
		124	5620	17.50	17.55	-	-	20.54	24.00
		132	5660	17.71	17.63	-	-	20.68	24.00
		140	5700	17.55	17.44	-	-	20.51	24.00
		144	5720	17.51	17.53	-	-	20.53	22.82
		144	5720	12.44	12.43	-	-	15.45	30.00
		149	5745	17.73	17.68	-	-	20.72	30.00
		157	5785	17.70	17.63	-	-	20.68	30.00
		165	5825	17.73	17.61	-	-	20.68	30.00
		169	5845	17.63	17.62	-	-	20.64	N/A
		173	5865	17.59	17.55	-	-	20.58	N/A
		177	5885	17.73	17.65	-	-	20.70	N/A

802.11n HT20	13M	36	5180	17.52	17.48	-	-	20.51	24.00
		40	5200	17.65	17.72	-	-	20.70	24.00
		44	5220	17.70	17.62	-	-	20.67	24.00
		48	5240	17.57	17.54	-	-	20.57	24.00
		52	5260	17.79	17.79	-	-	20.80	24.00
		56	5280	17.78	17.67	-	-	20.74	24.00
		60	5300	17.75	17.66	-	-	20.72	24.00
		64	5320	17.79	17.75	-	-	20.78	24.00
		100	5500	17.54	17.64	-	-	20.60	24.00
		112	5560	17.59	17.58	-	-	20.60	24.00
		116	5580	17.59	17.58	-	-	20.60	24.00
		124	5620	17.57	17.66	-	-	20.63	24.00
		132	5660	17.65	17.47	-	-	20.57	24.00
		140	5700	17.57	17.64	-	-	20.62	24.00
		144	5720	17.51	17.64	-	-	20.59	22.95
		144	5720	13.17	13.37	-	-	16.28	30.00
		149	5745	17.67	17.70	-	-	20.70	30.00
		157	5785	17.52	17.61	-	-	20.58	30.00
		165	5825	17.52	17.63	-	-	20.59	30.00
		169	5845	17.64	17.56	-	-	20.61	N/A
		173	5865	17.61	17.65	-	-	20.64	N/A
		177	5885	17.56	17.65	-	-	20.62	N/A
802.11n HT40	27M	38	5190	14.48	14.87	-	-	17.69	24.00
		46	5230	17.74	17.54	-	-	20.65	24.00
		54	5270	17.79	17.69	-	-	20.75	24.00
		62	5310	14.65	14.31	-	-	17.49	24.00
		102	5510	14.74	14.44	-	-	17.60	24.00
		110	5550	17.66	17.56	-	-	20.62	24.00
		126	5630	17.69	17.67	-	-	20.69	24.00
		134	5670	17.71	17.60	-	-	20.67	24.00
		142	5710	17.55	17.61	-	-	20.59	24.00
		142	5710	9.49	9.18	-	-	12.35	30.00
		151	5755	17.63	17.60	-	-	20.63	30.00
		159	5795	17.62	17.66	-	-	20.65	30.00
		167	5835	17.71	17.63	-	-	20.68	N/A
		175	5875	17.65	17.59	-	-	20.63	N/A

Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11ac VHT20	13M	36	5180	17.55	17.70	-	-	20.64	24.00
		40	5200	17.65	17.71	-	-	20.69	24.00
		44	5220	17.59	17.48	-	-	20.55	24.00
		48	5240	17.73	17.54	-	-	20.65	24.00
		52	5260	17.72	17.66	-	-	20.70	24.00
		56	5280	17.70	17.78	-	-	20.75	24.00
		60	5300	17.69	17.72	-	-	20.72	24.00
		64	5320	17.87	17.68	-	-	20.79	24.00
		100	5500	17.50	17.49	-	-	20.51	24.00
		112	5560	17.53	17.63	-	-	20.59	24.00
		116	5580	17.53	17.63	-	-	20.59	24.00
		124	5620	17.49	17.64	-	-	20.58	24.00
		132	5660	17.49	17.61	-	-	20.56	24.00
		140	5700	17.59	17.63	-	-	20.62	24.00
		144	5720	17.72	17.61	-	-	20.68	22.89
		144	5720	13.33	13.40	-	-	16.38	30.00
		149	5745	17.66	17.69	-	-	20.69	30.00
		157	5785	17.71	17.65	-	-	20.69	30.00
		165	5825	17.50	17.67	-	-	20.60	30.00
		169	5845	17.64	17.62	-	-	20.64	N/A
		173	5865	17.68	17.68	-	-	20.69	N/A
		177	5885	17.65	17.62	-	-	20.65	N/A
802.11ac VHT40	27M	38	5190	14.52	14.96	-	-	17.76	24.00
		46	5230	17.52	17.57	-	-	20.56	24.00
		54	5270	17.90	17.73	-	-	20.83	24.00
		62	5310	14.68	14.46	-	-	17.58	24.00
		102	5510	14.84	14.60	-	-	17.73	24.00
		110	5550	17.64	17.46	-	-	20.56	24.00
		126	5630	17.55	17.63	-	-	20.60	24.00
		134	5670	17.70	17.57	-	-	20.65	24.00
		142	5710	17.50	17.43	-	-	20.48	24.00
		142	5710	10.06	9.25	-	-	12.68	30.00
		151	5755	17.71	17.61	-	-	20.67	30.00
		159	5795	17.67	17.60	-	-	20.65	30.00
		167	5835	17.69	17.63	-	-	20.67	N/A
		175	5875	17.64	17.55	-	-	20.61	N/A

802.11ac VHT80	58.6M	42	5210	13.52	13.99	-	-	16.77	24.00
		58	5290	13.52	13.45	-	-	16.50	24.00
		106	5530	14.22	13.95	-	-	17.10	24.00
		122	5610	17.43	17.75	-	-	20.60	24.00
		138	5690	17.68	17.80	-	-	20.75	24.00
		138	5690	6.42	5.73	-	-	9.10	30.00
		155	5775	17.81	17.93	-	-	20.88	30.00
		171	5855	17.59	17.26	-	-	20.44	N/A
802.11ac VHT160	117M	50	5250	10.63	11.13	-	-	13.90	24.00
		50	5250	9.41	10.07	-	-	12.76	24.00
		114	5570	14.02	13.94	-	-	16.99	24.00
		163	5815	16.89	18.70	-	-	20.90	N/A

Band	Date Rate or Sub-test	CH	Freq. (MHz)	RU	Average power					Limit
					Ant-0	Ant-1	Ant-2	Ant-3	Total	
					dBm	dBm	dBm	dBm	dBm	
802.11ax HE20	MCS 0	36	5180	Full	17.60	17.69	-	-	20.66	24.00
		40	5200	Full	17.58	17.60	-	-	20.60	24.00
		44	5220	Full	17.66	17.59	-	-	20.64	24.00
		48	5240	Full	17.74	17.68	-	-	20.72	24.00
		52	5260	Full	17.86	17.69	-	-	20.79	24.00
		56	5280	Full	17.75	17.71	-	-	20.74	24.00
		60	5300	Full	17.78	17.81	-	-	20.81	24.00
		64	5320	Full	17.66	17.81	-	-	20.75	24.00
		100	5500	Full	17.64	17.64	-	-	20.65	24.00
		112	5560	Full	17.64	17.70	-	-	20.68	24.00
		116	5580	Full	17.64	17.70	-	-	20.68	24.00
		124	5620	Full	17.43	17.67	-	-	20.56	24.00
		132	5660	Full	17.51	17.72	-	-	20.63	24.00
		140	5700	Full	17.49	17.60	-	-	20.56	24.00
		144	5720	Full	17.44	17.69	-	-	20.58	22.95
		144	5720	Full	14.12	14.14	-	-	17.14	30.00
		149	5745	Full	17.74	17.58	-	-	20.67	30.00
		157	5785	Full	17.73	17.63	-	-	20.69	30.00
		165	5825	Full	17.71	17.54	-	-	20.64	30.00
		169	5845	Full	17.72	17.68	-	-	20.71	N/A
		173	5865	Full	17.67	17.61	-	-	20.65	N/A
		177	5885	Full	17.75	17.61	-	-	20.69	N/A
802.11ax HE40	MCS0	38	5190	Full	14.59	15.03	-	-	17.83	24.00
		46	5230	Full	17.67	17.64	-	-	20.67	24.00
		54	5270	Full	17.68	17.69	-	-	20.70	24.00
		62	5310	Full	14.82	14.49	-	-	17.67	24.00
		102	5510	Full	14.92	14.63	-	-	17.79	24.00
		110	5550	Full	17.45	17.58	-	-	20.53	24.00
		126	5630	Full	17.54	17.57	-	-	20.57	24.00
		134	5670	Full	17.51	17.55	-	-	20.54	24.00
		142	5710	Full	17.53	17.69	-	-	20.62	24.00
		142	5710	Full	11.13	10.39	-	-	13.79	30.00
		151	5755	Full	17.74	17.60	-	-	20.68	30.00
		159	5795	Full	17.67	17.62	-	-	20.66	30.00
		167	5835	Full	17.56	17.50	-	-	20.54	N/A
		175	5875	Full	17.57	17.60	-	-	20.60	N/A

802.11ax HE80	MCS 0	42	5210	Full	13.63	14.10	-	-	16.88	24.00
		58	5290	Full	13.59	13.51	-	-	16.56	24.00
		106	5530	Full	14.29	14.03	-	-	17.17	24.00
		122	5610	Full	17.58	17.57	-	-	20.59	24.00
		138	5690	Full	17.56	17.59	-	-	20.59	24.00
		138	5690	Full	7.43	6.93	-	-	10.20	30.00
		155	5775	Full	17.69	17.56	-	-	20.64	30.00
		171	5855	Full	17.67	17.57	-	-	20.63	N/A
802.11ax HE160	MCS 0	50	5250	Full	10.59	11.24	-	-	13.94	24.00
		50	5250	Full	9.44	10.21	-	-	12.85	24.00
		114	5570	Full	14.06	13.99	-	-	17.04	24.00
		163	5815	Full	17.66	17.57	-	-	20.63	N/A

Maximum Conducted Output Power Measurement

Maximum Conducted Output Power Measurement												
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					E.I.R.P		EIRP Power Limit	
				Ant-0	Ant-1	Ant-2	Ant-3	Total	Gain	Calculated Results		
				dBm	dBm	dBm	dBm	dBm	dBm	dBm		
802.11a	6M	169	5845	17.63	17.62	-	-	20.64	1.60	22.24	30.00	
		173	5865	17.59	17.55	-	-	20.58	1.60	22.18	30.00	
		177	5885	17.73	17.65	-	-	20.70	1.60	22.3	30.00	
802.11n HT20	13M	169	5845	17.64	17.56	-	-	20.61	1.60	22.21	30.00	
		173	5865	17.61	17.65	-	-	20.64	1.60	22.24	30.00	
		177	5885	17.56	17.65	-	-	20.62	1.60	22.22	30.00	
802.11n HT40	27M	167	5835	17.71	17.63	-	-	20.68	1.60	22.28	30.00	
		175	5875	17.65	17.59	-	-	20.63	1.60	22.23	30.00	
802.11ac VHT20	MCS 0	169	5845	17.64	17.62	-	-	20.64	1.60	22.24	30.00	
		173	5865	17.68	17.68	-	-	20.69	1.60	22.29	30.00	
		177	5885	17.65	17.62	-	-	20.65	1.60	22.25	30.00	
802.11ac VHT40	MCS 0	167	5835	17.69	17.63	-	-	20.67	1.60	22.27	30.00	
		175	5875	17.64	17.55	-	-	20.61	1.60	22.21	30.00	
802.11ac VHT80	MCS 0	171	5855	17.59	17.26	-	-	20.44	1.60	22.04	30.00	
802.11ac VHT160	MCS 0	163	5815	16.89	18.70	-	-	20.90	1.60	22.50	30.00	
Band	Date Rate or Sub-test	CH	Freq. (MHz)	RU	Average power					E.I.R.P		EIRP Power Limit
					Ant-0	Ant-1	Ant-2	Ant-3	Total	Gain	Calculated Results	
					dBm	dBm	dBm	dBm	dBm	dBm	dBm	
802.11ax HE20	MCS 0	169	5845	Full	17.72	17.68	-	-	20.71	1.60	22.31	30.00
		173	5865	Full	17.67	17.61	-	-	20.65	1.60	22.25	30.00
		177	5885	Full	17.75	17.61	-	-	20.69	1.60	22.29	30.00
802.11ax HE40	MCS0	167	5835	Full	17.56	17.50	-	-	20.54	1.60	22.14	30.00
		175	5230	Full	17.57	17.60	-	-	20.60	1.60	22.20	30.00
802.11ax HE80	MCS 0	171	5855	Full	17.67	17.57	-	-	20.63	1.60	22.23	30.00
802.11ax HE160	MCS 0	163	5815	Full	17.66	17.57	-	-	20.63	1.60	22.23	30.00

26 dB & 99 % RF Bandwidth Measurement

Band	CH	Freq. (MHz)	99 % Bandwidth				26 dB Bandwidth			
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-0	Ant-1	Ant-2	Ant-3
			MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
802.11a	36	5180	16.619	16.581	-	-	20.860	20.890	-	-
	40	5200	16.640	16.562	-	-	20.990	21.150	-	-
	48	5240	16.693	16.581	-	-	21.820	20.920	-	-
	52	5260	16.727	16.576	-	-	24.810	20.410	-	-
	56	5280	16.760	16.590	-	-	25.440	20.770	-	-
	64	5320	16.947	16.579	-	-	31.170	20.830	-	-
	100	5500	17.143	16.852	-	-	33.160	31.900	-	-
	112	5560	17.294	17.204	-	-	34.020	34.040	-	-
	140	5700	16.704	16.722	-	-	20.510	25.430	-	-
	144	5720	13.290	13.303	-	-	15.190	17.190	-	-
802.11ax HE20	36	5180	19.057	19.049	-	-	21.580	21.340	-	-
	40	5200	19.061	18.997	-	-	22.040	22.720	-	-
	48	5240	19.055	19.019	-	-	23.090	22.350	-	-
	52	5260	19.131	19.011	-	-	27.290	21.310	-	-
	56	5280	19.138	19.042	-	-	26.230	22.250	-	-
	64	5320	19.199	19.020	-	-	29.190	22.580	-	-
	100	5500	19.229	19.201	-	-	29.560	32.350	-	-
	112	5560	19.281	19.310	-	-	30.490	34.070	-	-
	140	5700	18.955	19.068	-	-	21.260	21.510	-	-
	144	5720	14.461	14.605	-	-	15.680	19.750	-	-
802.11ax HE40	38	5190	37.820	37.825	-	-	41.270	41.000	-	-
	46	5230	37.902	37.941	-	-	40.730	41.130	-	-
	54	5270	37.939	37.829	-	-	42.430	41.580	-	-
	62	5310	37.870	37.885	-	-	41.230	41.120	-	-
	102	5510	37.841	37.870	-	-	40.940	40.940	-	-
	110	5550	38.516	38.625	-	-	75.030	73.360	-	-
	134	5670	37.949	38.205	-	-	42.030	56.430	-	-
	142	5710	33.812	33.835	-	-	46.840	46.850	-	-
802.11ax HE80	42	5210	77.275	77.216	-	-	83.260	83.080	-	-
	58	5290	77.363	77.218	-	-	83.180	82.650	-	-
	106	5530	77.427	77.297	-	-	84.880	83.630	-	-
	122	5610	77.956	78.651	-	-	132.900	140.300	-	-
	138	5690	73.460	73.652	-	-	82.770	93.210	-	-
802.11ax HE160	50	5250	77.751	77.541	-	-	82.550	82.120	-	-
	50	5250	77.775	77.610	-	-	83.040	82.170	-	-
	114	5570	156.160	156.280	-	-	167.600	165.270	-	-

Band III + IV_6 dB & 99 % RF Bandwidth Measurement

Band	CH	Freq. (MHz)	99 % Bandwidth				6 dB Bandwidth			
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-0	Ant-1	Ant-2	Ant-3
			MHz	MHz	MHz	MHz	kHz	kHz	kHz	kHz
802.11a	144	5720	3.529	4.502	-	-	3162	3156	-	-
	149	5745	16.874	17.027	-	-	16320	16320	-	-
	157	5785	16.738	16.770	-	-	16350	16370	-	-
	165	5825	16.762	16.691	-	-	16360	16380	-	-
	169	5845	16.366	16.375	-	-	16400	16380	-	-
	173	5865	16.368	16.371	-	-	16420	16420	-	-
	177	5865	16.358	16.388	-	-	16390	16490	-	-
802.11ax HE20	144	5720	4.643	6.238	-	-	4432	4423	-	-
	149	5745	19.029	19.230	-	-	18630	18900	-	-
	157	5785	19.032	19.111	-	-	18810	18730	-	-
	165	5825	18.975	19.063	-	-	18770	18780	-	-
	169	5845	18.872	18.893	-	-	18980	19010	-	-
	173	5865	18.851	18.923	-	-	18520	18930	-	-
	177	5865	18.868	18.906	-	-	19030	18910	-	-
802.11ax HE40	142	5710	4.352	6.029	-	-	4044	4152	-	-
	151	5755	37.961	38.213	-	-	37900	37990	-	-
	159	5795	37.913	38.089	-	-	37750	37820	-	-
	167	5835	37.698	37.776	-	-	37690	38180	-	-
	175	5875	39.698	37.704	-	-	38120	37690	-	-
802.11ax HE80	138	5690	14.446	16.609	-	-	4024	4052	-	-
	155	5775	77.238	77.557	-	-	77950	77550	-	-
	171	5855	77.079	71.116	-	-	77820	77870	-	-
802.11ax HE160	163	5815	156.180	156.190	-	-	158110	158100	-	-

Power Spectral Density Measurement									
Band	CH	Frequency (MHz)	Measurement				Duty Factor	Calculated	Limit
			Ant-0	Ant-1	Ant-2	Ant-3		Total	
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dBm/MHz	
802.11a	36	5180	6.217	7.159	-	-	0.010	9.734	11.000
	40	5200	6.041	6.871	-	-	0.010	9.496	11.000
	48	5240	5.967	6.230	-	-	0.010	9.121	11.000
	52	5260	6.008	5.989	-	-	0.010	9.019	11.000
	56	5280	5.703	5.933	-	-	0.010	8.840	11.000
	64	5320	5.774	5.307	-	-	0.010	8.567	11.000
	100	5500	6.153	6.189	-	-	0.010	9.192	11.000
	112	5560	7.340	7.191	-	-	0.010	10.287	11.000
	140	5700	7.923	7.467	-	-	0.010	10.722	11.000
	144	5720	7.314	7.236	-	-	0.010	10.296	11.000
802.11ac VHT20	36	5180	5.027	6.003	-	-	0.000	8.553	11.000
	40	5200	4.738	5.838	-	-	0.000	8.333	11.000
	48	5240	4.887	5.388	-	-	0.000	8.155	11.000
	52	5260	4.724	5.026	-	-	0.000	7.888	11.000
	56	5280	4.715	4.653	-	-	0.000	7.694	11.000
	64	5320	4.846	4.021	-	-	0.000	7.463	11.000
	100	5500	5.489	5.106	-	-	0.000	8.312	11.000
	112	5560	6.738	6.367	-	-	0.000	9.567	11.000
	140	5700	6.444	5.479	-	-	0.000	8.999	11.000
	144	5720	7.676	7.106	-	-	0.000	10.411	11.000
802.11ac VHT40	38	5190	-0.401	0.413	-	-	0.000	3.035	11.000
	46	5230	2.312	2.519	-	-	0.000	5.427	11.000
	54	5270	1.964	2.041	-	-	0.000	5.013	11.000
	62	5310	-0.402	-0.729	-	-	0.000	2.448	11.000
	102	5510	0.192	0.042	-	-	0.000	3.128	11.000
	110	5550	4.271	3.962	-	-	0.000	7.130	11.000
	134	5670	4.656	4.479	-	-	0.000	7.579	11.000
	142	5710	5.443	4.483	-	-	0.000	8.000	11.000
802.11ac VHT80	42	5210	-3.975	-3.499	-	-	0.000	-0.720	11.000
	58	5290	-4.449	-4.694	-	-	0.000	-1.559	11.000
	106	5530	-3.079	-3.675	-	-	0.000	-0.356	11.000
	122	5610	1.495	1.169	-	-	0.000	4.345	11.000
	138	5690	2.009	1.397	-	-	0.000	4.724	11.000
802.11ac VHT160	50	5250	-8.105	-7.678	-	-	0.000	-4.876	11.000
	50	5250	-8.834	-8.325	-	-	0.000	-5.562	11.000
	114	5570	-6.171	-6.391	-	-	0.000	-3.269	11.000

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Band	CH	Frequency (MHz)	Measurement				Duty Factor	Calculated	Limit
			Ant-0	Ant-1	Ant-2	Ant-3		Total	
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dBm/MHz	
802.11ax HE20	36	5180	5.861	6.903	-	-	0.000	9.423	11.000
	40	5200	5.347	6.711	-	-	0.000	9.093	11.000
	48	5240	4.915	6.027	-	-	0.000	8.517	11.000
	52	5260	4.874	5.380	-	-	0.000	8.145	11.000
	56	5280	4.717	5.072	-	-	0.000	7.908	11.000
	64	5320	4.865	4.692	-	-	0.000	7.790	11.000
	100	5500	6.048	5.685	-	-	0.000	8.881	11.000
	112	5560	6.930	6.550	-	-	0.000	9.754	11.000
	140	5700	6.632	6.064	-	-	0.000	9.368	11.000
	144	5720	7.841	7.611	-	-	0.000	10.738	11.000
802.11ax HE40	38	5190	0.456	1.098	-	-	0.000	3.799	11.000
	46	5230	2.724	2.941	-	-	0.000	5.844	11.000
	54	5270	2.435	2.274	-	-	0.000	5.366	11.000
	62	5310	-0.171	-0.376	-	-	0.000	2.738	11.000
	102	5510	0.548	0.262	-	-	0.000	3.418	11.000
	110	5550	4.711	4.363	-	-	0.000	7.551	11.000
	134	5670	5.096	4.540	-	-	0.000	7.837	11.000
	142	5710	5.827	4.816	-	-	0.000	8.361	11.000
802.11ax HE80	42	5210	-3.624	-3.041	-	-	0.000	-0.312	11.000
	58	5290	-4.246	-4.183	-	-	0.000	-1.204	11.000
	106	5530	-2.692	-3.083	-	-	0.000	0.127	11.000
	122	5610	1.702	1.368	-	-	0.000	4.549	11.000
	138	5690	2.614	1.531	-	-	0.000	5.116	11.000
802.11ax HE160	50	5250	-7.592	-6.961	-	-	0.000	-4.255	11.000
	50	5250	-7.182	-6.518	-	-	0.000	-3.827	11.000
	114	5570	-5.673	-5.975	-	-	0.000	-2.811	11.000

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Band III - Power Spectral Density Measurement													
Band	CH	Frequency (MHz)	Measurement								Calculated	Limit	PASS/FAIL
			Ant-0		Ant-1		Ant-2		Ant-3		Total		
			dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	
802.11a	144	5720	-2.795	4.205	-2.484	4.516	-	-	-	-	7.374	30.00	PASS
	149	5745	-0.826	6.174	-1.337	5.663	-	-	-	-	8.936	30.00	PASS
	157	5785	-2.946	4.054	-2.129	4.871	-	-	-	-	7.492	30.00	PASS
	165	5825	-2.947	4.053	-2.822	4.178	-	-	-	-	7.126	30.00	PASS
802.11ac VHT20	144	5720	-1.851	5.139	-2.507	4.483	-	-	-	-	7.833	30.00	PASS
	149	5745	-1.870	5.120	-2.371	4.619	-	-	-	-	7.887	30.00	PASS
	157	5785	-3.289	3.701	-2.884	4.106	-	-	-	-	6.918	30.00	PASS
	165	5825	-4.189	2.801	-3.513	3.477	-	-	-	-	6.162	30.00	PASS
802.11ac VHT40	142	5710	-4.925	2.065	-5.207	1.783	-	-	-	-	4.936	30.00	PASS
	151	5755	-5.146	1.844	-5.108	1.882	-	-	-	-	4.873	30.00	PASS
	159	5795	-5.913	1.077	-6.772	0.218	-	-	-	-	3.679	30.00	PASS
802.11ac VHT80	138	5690	-8.540	-1.550	-8.820	-1.830	-	-	-	-	1.322	30.00	PASS
	155	5775	-10.209	-3.219	-9.416	-2.426	-	-	-	-	0.206	30.00	PASS
802.11ax HE20	144	5720	-2.647	4.343	-2.539	4.451	-	-	-	-	7.407	30.00	PASS
	149	5745	-2.340	4.650	-2.727	4.263	-	-	-	-	7.471	30.00	PASS
	157	5785	-4.238	2.752	-3.464	3.526	-	-	-	-	6.166	30.00	PASS
	165	5825	-4.628	2.362	-4.289	2.701	-	-	-	-	5.545	30.00	PASS
802.11ax HE40	142	5710	-5.217	1.773	-6.195	0.795	-	-	-	-	4.321	30.00	PASS
	151	5755	-5.691	1.299	-5.668	1.322	-	-	-	-	4.321	30.00	PASS
	159	5795	-7.219	-0.229	-6.340	0.650	-	-	-	-	3.243	30.00	PASS
802.11ax HE80	138	5690	-9.067	-2.077	-9.633	-2.643	-	-	-	-	0.659	30.00	PASS
	155	5775	-10.053	-3.063	-9.414	-2.424	-	-	-	-	0.278	30.00	PASS

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Conversion ratio = 10*Log(500 k/100 k)

Band IV_ Power Spectral Density Measurement															
Band	CH	Frequency (MHz)	Measurement								Calculated			EIRPLimit	PASS/FAIL
			Ant-0		Ant-1		Ant-2		Ant-3		Total	Gain	EIRP Total		
			dBm/100 kHz	dBm/1MHz	dBm/100 kHz	dBm/1MHz	dBm/100 kHz	dBm/1MHz	dBm/100 kHz	dBm/1MHz	dBm/1MHz	dB	dBm/1MHz		
802.11a	169	5845	-4.386	5.624	-3.462	6.548	-	-	-	-	9.121	4.610	13.73	14.00	PASS
	173	5865	-4.359	5.651	-3.294	6.716	-	-	-	-	9.227	4.610	13.84	14.00	PASS
	177	5865	-4.343	5.667	-3.051	6.959	-	-	-	-	9.371	4.610	13.98	14.00	PASS
802.11ac VHT20	169	5845	-4.338	5.662	-3.482	6.518	-	-	-	-	9.121	4.610	13.73	14.00	PASS
	173	5865	-4.162	5.838	-3.290	6.710	-	-	-	-	9.306	4.610	13.92	14.00	PASS
	177	5865	-4.342	5.658	-3.179	6.821	-	-	-	-	9.289	4.610	13.90	14.00	PASS
802.11ac VHT40	167	5835	-7.369	2.631	-6.388	3.612	-	-	-	-	6.159	4.610	10.77	14.00	PASS
	175	5875	-7.242	2.758	-6.105	3.895	-	-	-	-	6.374	4.610	10.98	14.00	PASS
802.11ac VHT80	171	5855	-10.388	-0.388	-9.710	0.290	-	-	-	-	2.975	4.610	7.58	14.00	PASS
802.11ac VHT160	163	5815	-14.259	-4.259	-13.377	-3.377	-	-	-	-	-0.785	4.610	3.82	14.00	PASS
802.11ax HE20	169	5845	-4.365	5.635	-4.095	5.905	-	-	-	-	8.782	4.610	13.39	14.00	PASS
	173	5865	-4.555	5.445	-3.860	6.140	-	-	-	-	8.817	4.610	13.43	14.00	PASS
	177	5865	-4.513	5.487	-3.678	6.322	-	-	-	-	8.935	4.610	13.54	14.00	PASS
802.11ax HE40	167	5835	-7.327	2.673	-6.987	3.013	-	-	-	-	5.857	4.610	10.47	14.00	PASS
	175	5875	-7.702	2.298	-6.581	3.419	-	-	-	-	5.905	4.610	10.51	14.00	PASS
802.11ax HE80	171	5855	-10.434	-0.434	-9.534	0.466	-	-	-	-	3.050	4.610	7.66	14.00	PASS
802.11ax HE160	163	5815	-14.444	-4.444	-13.371	-3.371	-	-	-	-	-0.864	4.610	3.75	14.00	PASS

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Conversion ration = 10*Log(1 M/100 k)

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Maximum Conducted Output Power Measurement									
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11n HT20	13M	36	5180	14.11	14.51	-	-	17.32	30.00
		40	5200	13.96	14.47	-	-	17.23	30.00
		44	5220	13.93	14.27	-	-	17.11	30.00
		48	5240	13.83	14.52	-	-	17.20	30.00
		52	5260	14.09	14.08	-	-	17.10	24.00
		56	5280	13.99	13.78	-	-	16.90	24.00
		60	5300	13.99	13.80	-	-	16.91	24.00
		64	5320	14.10	13.93	-	-	17.03	24.00
		100	5500	14.24	13.91	-	-	17.09	24.00
		112	5560	15.00	14.79	-	-	17.91	24.00
		116	5580	14.79	14.70	-	-	17.76	24.00
		124	5620	14.89	14.69	-	-	17.80	24.00
		132	5660	14.92	14.82	-	-	17.88	24.00
		140	5700	13.58	13.48	-	-	16.54	24.00
		144	5720	14.10	14.01	-	-	17.07	22.95
		144	5720	8.35	8.43	-	-	11.40	30.00
		149	5745	15.26	15.26	-	-	18.27	30.00
		157	5785	14.18	14.71	-	-	17.46	30.00
		165	5825	13.51	14.58	-	-	17.09	30.00
		169	5845	12.52	13.77	-	-	16.20	N/A
		173	5865	12.58	13.98	-	-	16.35	N/A
		177	5885	12.51	13.92	-	-	16.28	N/A
802.11n HT40	27M	38	5190	11.10	11.82	-	-	14.49	30.00
		46	5230	13.37	13.82	-	-	16.61	30.00
		54	5270	13.30	13.46	-	-	16.39	24.00
		62	5310	11.44	11.18	-	-	14.32	24.00
		102	5510	11.75	11.29	-	-	14.54	24.00
		110	5550	13.46	13.39	-	-	16.44	24.00
		126	5630	13.59	13.30	-	-	16.46	24.00
		134	5670	14.47	14.60	-	-	17.55	24.00
		142	5710	15.41	15.28	-	-	18.35	24.00
		142	5710	4.83	4.72	-	-	7.79	30.00
		151	5755	14.64	14.71	-	-	17.69	30.00
		159	5795	13.40	14.31	-	-	16.89	30.00
		167	5835	12.85	14.29	-	-	16.64	N/A
		175	5875	12.83	14.41	-	-	16.70	N/A

Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11ac VHT20	13M	36	5180	14.13	14.62	-	-	17.39	30.00
		40	5200	14.04	14.50	-	-	17.29	30.00
		44	5220	14.03	14.54	-	-	17.30	30.00
		48	5240	13.87	14.62	-	-	17.27	30.00
		52	5260	14.12	14.09	-	-	17.12	24.00
		56	5280	14.00	13.92	-	-	16.97	24.00
		60	5300	14.14	13.94	-	-	17.05	24.00
		64	5320	14.16	14.05	-	-	17.12	24.00
		100	5500	14.37	14.10	-	-	17.25	24.00
		112	5560	15.01	14.86	-	-	17.95	24.00
		116	5580	14.96	14.86	-	-	17.92	24.00
		124	5620	14.97	14.88	-	-	17.94	24.00
		132	5660	15.04	14.84	-	-	17.95	24.00
		140	5700	13.64	13.50	-	-	16.58	24.00
		144	5720	14.34	14.33	-	-	17.35	22.95
		144	5720	8.63	8.75	-	-	11.70	30.00
		149	5745	15.41	15.30	-	-	18.37	30.00
		157	5785	14.25	14.88	-	-	17.59	30.00
		165	5825	13.61	14.61	-	-	17.15	30.00
		169	5845	12.56	13.86	-	-	16.27	N/A
		173	5865	12.63	14.05	-	-	16.41	N/A
		177	5885	12.56	13.96	-	-	16.33	N/A
802.11ac VHT40	27M	38	5190	11.15	12.09	-	-	14.66	30.00
		46	5230	13.56	13.86	-	-	16.72	30.00
		54	5270	13.46	13.47	-	-	16.48	24.00
		62	5310	11.52	11.19	-	-	14.37	24.00
		102	5510	11.76	11.42	-	-	14.60	24.00
		110	5550	13.68	13.43	-	-	16.57	24.00
		126	5630	13.63	13.41	-	-	16.53	24.00
		134	5670	14.52	14.70	-	-	17.62	24.00
		142	5710	15.62	15.54	-	-	18.59	24.00
		142	5710	5.12	5.05	-	-	8.10	30.00
		151	5755	14.66	14.81	-	-	17.75	30.00
		159	5795	13.48	14.45	-	-	17.00	30.00
		167	5835	12.91	14.32	-	-	16.68	N/A
		175	5875	12.88	14.44	-	-	16.74	N/A

802.11ac VHT80	58.6M	42	5210	10.44	10.99	-	-	13.73	30.00
		58	5290	10.11	10.30	-	-	13.22	24.00
		106	5530	11.06	10.89	-	-	13.99	24.00
		122	5610	14.15	14.36	-	-	17.27	24.00
		138	5690	15.45	15.36	-	-	18.42	24.00
		138	5690	1.61	1.41	-	-	4.52	30.00
		155	5775	13.45	14.30	-	-	16.91	30.00
		171	5855	13.43	14.76	-	-	17.16	N/A
802.11ac VHT160	117M	50	5250	7.15	7.51	-	-	10.34	30.00
		50	5250	5.83	6.65	-	-	9.27	24.00
		114	5570	10.73	10.69	-	-	13.72	24.00
		163	5815	12.30	13.64	-	-	16.03	N/A

Band	Date Rate or Sub-test	CH	Freq. (MHz)	RU	Average power					Limit
					Ant-0	Ant-1	Ant-2	Ant-3	Total	
					dBm	dBm	dBm	dBm	dBm	
802.11ax HE20	MCS 0	36	5180	Full	14.23	14.71	-	-	17.49	30.00
		40	5200	Full	14.11	14.59	-	-	17.37	30.00
		44	5220	Full	14.09	14.55	-	-	17.34	30.00
		48	5240	Full	14.02	14.69	-	-	17.38	30.00
		52	5260	Full	14.22	14.21	-	-	17.23	24.00
		56	5280	Full	14.12	13.97	-	-	17.06	24.00
		60	5300	Full	14.16	13.99	-	-	17.09	24.00
		64	5320	Full	14.28	14.06	-	-	17.18	24.00
		100	5500	Full	14.38	14.15	-	-	17.28	24.00
		112	5560	Full	15.11	14.97	-	-	18.05	24.00
		116	5580	Full	15.08	14.94	-	-	18.02	24.00
		124	5620	Full	15.10	14.93	-	-	18.03	24.00
		132	5660	Full	15.07	14.94	-	-	18.02	24.00
		140	5700	Full	13.73	13.61	-	-	16.68	24.00
		144	5720	Full	14.46	14.42	-	-	17.45	22.95
		144	5720	Full	9.44	9.23	-	-	12.35	30.00
		149	5745	Full	15.46	15.44	-	-	18.46	30.00
		157	5785	Full	14.36	14.96	-	-	17.68	30.00
		165	5825	Full	13.65	14.73	-	-	17.23	30.00
		169	5845	Full	14.14	15.25	-	-	17.74	N/A
		173	5865	Full	14.17	15.37	-	-	17.82	N/A
		177	5885	Full	14.32	15.34	-	-	17.87	N/A
802.11ax HE40	MCS0	38	5190	Full	11.29	12.10	-	-	14.72	30.00
		46	5230	Full	14.09	14.45	-	-	17.28	30.00
		54	5270	Full	14.01	14.09	-	-	17.06	24.00
		62	5310	Full	11.55	11.34	-	-	14.46	24.00
		102	5510	Full	11.88	11.45	-	-	14.68	24.00
		110	5550	Full	14.20	14.08	-	-	17.15	24.00
		126	5630	Full	14.16	14.05	-	-	17.12	24.00
		134	5670	Full	14.62	14.83	-	-	17.74	24.00
		142	5710	Full	15.98	15.73	-	-	18.87	24.00
		142	5710	Full	6.35	5.90	-	-	9.14	30.00
		151	5755	Full	15.30	15.42	-	-	18.37	30.00
		159	5795	Full	14.02	14.99	-	-	17.54	30.00
		167	5835	Full	13.46	14.89	-	-	17.24	N/A
		175	5875	Full	13.43	14.96	-	-	17.27	N/A

802.11ax HE80	MCS 0	42	5210	Full	10.51	11.03	-	-	13.79	30.00
		58	5290	Full	10.25	10.45	-	-	13.36	24.00
		106	5530	Full	11.15	11.00	-	-	14.09	24.00
		122	5610	Full	14.76	14.79	-	-	17.79	24.00
		138	5690	Full	15.78	15.69	-	-	18.75	24.00
		138	5690	Full	2.45	2.22	-	-	5.35	30.00
		155	5775	Full	13.99	14.81	-	-	17.43	30.00
		171	5855	Full	14.01	15.33	-	-	17.73	N/A
802.11ax HE160	MCS 0	50	5250	Full	7.47	7.98	-	-	10.74	30.00
		50	5250	Full	6.25	7.01	-	-	9.66	24.00
		114	5570	Full	10.81	10.80	-	-	13.82	24.00
		163	5815	Full	12.33	13.67	-	-	16.06	N/A

Maximum Conducted Output Power Measurement

Maximum Conducted Output Power Measurement												
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					E.I.R.P		EIRP Power Limit	
				Ant-0	Ant-1	Ant-2	Ant-3	Total	Gain	Calculated Results		
				dBm	dBm	dBm	dBm	dBm	dBm	dBm		
802.11n HT20	13M	169	5845	12.52	13.77	-	-	16.20	4.61	20.81	30.00	
		173	5865	12.58	13.98	-	-	16.35	4.61	20.96	30.00	
		177	5885	12.51	13.92	-	-	16.28	4.61	20.89	30.00	
802.11n HT40	27M	167	5835	12.85	14.29	-	-	16.64	4.61	21.25	30.00	
		175	5875	12.83	14.41	-	-	16.70	4.61	21.31	30.00	
802.11ac VHT20	MCS 0	169	5845	12.56	13.86	-	-	16.27	4.61	20.88	30.00	
		173	5865	12.63	14.05	-	-	16.41	4.61	21.02	30.00	
		177	5885	12.56	13.96	-	-	16.33	4.61	20.94	30.00	
802.11ac VHT40	MCS 0	167	5835	12.91	14.32	-	-	16.68	4.61	21.29	30.00	
		175	5875	12.88	14.44	-	-	16.74	4.61	21.35	30.00	
802.11ac VHT80	MCS 0	171	5855	13.43	14.76	-	-	17.16	4.61	21.77	30.00	
802.11ac VHT160	MCS 0	163	5815	12.30	13.64	-	-	16.03	4.61	20.64	30.00	
Band	Date Rate or Sub-test	CH	Freq. (MHz)	RU	Average power					E.I.R.P		EIRP Power Limit
					Ant-0	Ant-1	Ant-2	Ant-3	Total	Gain	Calculated Results	
					dBm	dBm	dBm	dBm	dBm	dBm	dBm	
802.11ax HE20	MCS 0	169	5845	Full	14.14	15.25	-	-	17.74	4.61	22.35	30.00
		173	5865	Full	14.17	15.37	-	-	17.82	4.61	22.43	30.00
		177	5885	Full	14.32	15.34	-	-	17.87	4.61	22.48	30.00
802.11ax HE40	MCS0	167	5835	Full	13.46	14.89	-	-	17.24	4.61	21.85	30.00
		175	5230	Full	13.43	14.96	-	-	17.27	4.61	21.88	30.00
802.11ax HE80	MCS 0	171	5855	Full	14.01	15.33	-	-	17.73	4.61	22.34	30.00
802.11ax HE160	MCS 0	163	5815	Full	12.33	13.67	-	-	16.06	4.61	20.67	30.00