

Appendix A. Test Data

Duty cycle						
Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	5180	20.000	20.000	100.000	0.000	0.010
802.11n HT20	5180	20.000	20.000	100.000	0.000	0.010
802.11n HT40	5190	0.985	0.995	98.995	0.044	0.010
802.11ac VHT20	5180	15.000	15.000	100.000	0.000	0.010
802.11ac VHT40	5190	15.000	15.000	100.000	0.000	0.010
802.11ac VHT80	5210	15.000	15.000	100.000	0.000	0.010
802.11ax HE20	5180	30.000	30.000	100.000	0.000	0.010
802.11ax HE40	5190	15.000	15.000	100.000	0.000	0.010
802.11ax HE80	5210	10.000	10.000	100.000	0.000	0.010

Duty cycle							
Mode	Frequency (MHz)	Single RU	on time (ms)	on+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11ax HE20	5180	26	5.160	5.540	93.141	0.309	0.194
802.11ax HE20	5180	52	5.120	5.500	93.091	0.311	0.195
802.11ax HE20	5180	106	4.820	5.140	93.774	0.279	0.207

RF power setting in Test SW								
Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Test SW Version
802.11a	36	5180	14	14	-	-	-	QRCT 4.0.193.1
	40	5200	14	14	-	-	-	
	48	5240	14	14	-	-	-	
	52	5260	14	14	-	-	-	
	56	5280	14	14	-	-	-	
	64	5320	14	14	-	-	-	
	100	5500	14	14	-	-	-	
	112	5560	14	14	-	-	-	
	140	5700	14	14	-	-	-	
	149	5745	14	14	-	-	-	
	157	5785	14	14	-	-	-	
802.11n HT20	36	5180	13	13	-	-	-	QRCT 4.0.193.1
	40	5200	13	13	-	-	-	
	48	5240	13	13	-	-	-	
	52	5260	13	13	-	-	-	
	56	5280	13	13	-	-	-	
	64	5320	13	13	-	-	-	
	100	5500	13	13	-	-	-	
	112	5560	13	13	-	-	-	
	140	5700	13	13	-	-	-	
	149	5745	13	13	-	-	-	
	157	5785	13	13	-	-	-	
802.11n HT40	38	5190	13	13	-	-	-	QRCT 4.0.193.1
	46	5230	13	13	-	-	-	
	54	5270	13	13	-	-	-	
	62	5310	13	13	-	-	-	
	102	5510	13	13	-	-	-	
	110	5550	13	13	-	-	-	
	134	5670	13	13	-	-	-	
	151	5755	13	13	-	-	-	
	159	5795	13	13	-	-	-	

RF power setting in Test SW								
Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Test SW Version
802.11ac VHT20	36	5180	12	12	-	-	-	QRCT 4.0.193.1
	40	5200	12	12	-	-	-	
	48	5240	12	12	-	-	-	
	52	5260	12	12	-	-	-	
	56	5280	12	12	-	-	-	
	64	5320	12	12	-	-	-	
	100	5500	12	12	-	-	-	
	112	5560	12	12	-	-	-	
	140	5700	12	12	-	-	-	
	149	5745	12	12	-	-	-	
	157	5785	12	12	-	-	-	
802.11ac VHT40	165	5825	12	12	-	-	-	QRCT 4.0.193.1
	38	5190	12	12	-	-	-	
	46	5230	12	12	-	-	-	
	54	5270	12	12	-	-	-	
	62	5310	12	12	-	-	-	
	102	5510	12	12	-	-	-	
	110	5550	12	12	-	-	-	
	134	5670	12	12	-	-	-	
802.11ac VHT80	151	5755	12	12	-	-	-	QRCT 4.0.193.1
	159	5795	12	12	-	-	-	
	42	5210	12	12	-	-	-	
	58	5290	12	12	-	-	-	
	106	5530	12	12	-	-	-	
	155	5775	12	12	-	-	-	

RF power setting in Test SW									
Mode	CH	Frequency (MHz)		Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Test SW Version
802.11ax HE20	36	5180	Full	11	11	-	-	-	QRCT 4.0.193.1
	40	5200	Full	11	11	-	-	-	
	48	5240	Full	11	11	-	-	-	
	52	5260	Full	11	11	-	-	-	
	56	5280	Full	11	11	-	-	-	
	64	5320	Full	11	11	-	-	-	
	100	5500	Full	11	11	-	-	-	
	112	5560	Full	11	11	-	-	-	
	140	5700	Full	11	11	-	-	-	
	149	5745	Full	11	11	-	-	-	
	157	5785	Full	11	11	-	-	-	
802.11ax HE40	165	5825	Full	11	11	-	-	-	QRCT 4.0.193.1
	38	5190	Full	11	11	-	-	-	
	46	5230	Full	11	11	-	-	-	
	54	5270	Full	11	11	-	-	-	
	62	5310	Full	11	11	-	-	-	
	102	5510	Full	11	11	-	-	-	
	110	5550	Full	11	11	-	-	-	
	134	5670	Full	11	11	-	-	-	
802.11ax HE80	151	5755	Full	11	11	-	-	-	QRCT 4.0.193.1
	159	5795	Full	11	11	-	-	-	
	42	5210	Full	11	11	-	-	-	
	58	5290	Full	11	11	-	-	-	
	106	5530	Full	11	11	-	-	-	
	155	5775	Full	11	11	-	-	-	

RF power setting in Test SW									
Mode	CH	Frequency (MHz)	Single RU	Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Test SW Version
802.11ax HE20	36	5180	26 0	1	1	-	-	-	QRCT 4.0.193.1
	48	5240	26 8	1	1	-	-	-	
	52	5260	26 0	1	1	-	-	-	
	64	5320	26 8	1	1	-	-	-	
	100	5500	26 0	1	1	-	-	-	
	140	5700	26 8	1	1	-	-	-	
	149	5745	26 0	0.5	0.5	-	-	-	
	165	5825	26 8	0.5	0.5	-	-	-	
	36	5180	52 37	3.5	3.5	-	-	-	QRCT 4.0.193.1
	48	5240	52 40	3.5	3.5	-	-	-	
	52	5260	52 37	3.5	3.5	-	-	-	
	64	5320	52 40	3.5	3.5	-	-	-	
	100	5500	52 37	3.5	3.5	-	-	-	
	140	5700	52 40	3.5	3.5	-	-	-	
	149	5745	52 37	3.5	3.5	-	-	-	
	165	5825	52 40	3.5	3.5	-	-	-	
	36	5180	106 53	6	6	-	-	-	QRCT 4.0.193.1
	48	5240	106 54	6	6	-	-	-	
	52	5260	106 53	6	6	-	-	-	
	64	5320	106 54	6	6	-	-	-	
	100	5500	106 53	6	6	-	-	-	
	140	5700	106 54	6	6	-	-	-	
	149	5745	106 53	6	6	-	-	-	
	165	5825	106 54	6	6	-	-	-	

Maximum Conducted Output Power Measurement									
Mode	CH	Frequency (MHz)	Average power						Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	
			dBm	dBm	dBm	dBm	dBm	dBm	
802.11a	36	5180	14.46	13.81	-	-	-	17.16	24.00
	40	5200	14.42	13.67	-	-	-	17.07	24.00
	48	5240	14.25	13.69	-	-	-	16.99	24.00
	52	5260	14.51	13.87	-	-	-	17.21	24.00
	56	5280	14.79	14.01	-	-	-	17.43	24.00
	64	5320	14.79	14.15	-	-	-	17.49	24.00
	100	5500	14.69	12.93	-	-	-	16.91	24.00
	112	5560	14.62	13.11	-	-	-	16.94	24.00
	140	5700	14.72	13.16	-	-	-	17.02	24.00
	149	5745	14.82	13.29	-	-	-	17.13	30.00
	157	5785	14.87	13.31	-	-	-	17.17	30.00
	165	5825	15.08	13.56	-	-	-	17.40	30.00
802.11n HT20	36	5180	13.41	12.82	-	-	-	16.14	24.00
	40	5200	13.47	12.73	-	-	-	16.13	24.00
	48	5240	13.23	12.81	-	-	-	16.04	24.00
	52	5260	13.58	12.99	-	-	-	16.31	24.00
	56	5280	13.69	13.12	-	-	-	16.42	24.00
	64	5320	13.95	13.33	-	-	-	16.66	24.00
	100	5500	13.77	11.96	-	-	-	15.97	24.00
	112	5560	13.55	12.15	-	-	-	15.92	24.00
	140	5700	13.79	12.08	-	-	-	16.03	24.00
	149	5745	13.84	12.24	-	-	-	16.12	30.00
	157	5785	13.95	12.28	-	-	-	16.21	30.00
	165	5825	14.09	12.58	-	-	-	16.41	30.00
802.11n HT40	38	5190	13.88	13.43	-	-	-	16.67	24.00
	46	5230	13.68	13.34	-	-	-	16.52	24.00
	54	5270	14.05	13.45	-	-	-	16.77	24.00
	62	5310	14.09	13.77	-	-	-	16.94	24.00
	102	5510	14.26	12.51	-	-	-	16.48	24.00
	110	5550	14.04	12.74	-	-	-	16.45	24.00
	134	5670	14.28	12.77	-	-	-	16.60	24.00
	151	5755	14.31	12.78	-	-	-	16.62	30.00
	159	5795	14.48	12.98	-	-	-	16.80	30.00

Note: The conducted power limit is the lesser of 24 dBm or (11 dBm + 10log10(B)), where B is the 26 dB EBW in MHz.

Mode	CH	Frequency (MHz)	Average power						Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	
			dBm	dBm	dBm	dBm	dBm	dBm	
802.11ac VHT20	36	5180	12.51	11.92	-	-	-	15.24	24.00
	40	5200	12.48	11.77	-	-	-	15.15	24.00
	48	5240	12.20	11.70	-	-	-	14.97	24.00
	52	5260	12.49	11.94	-	-	-	15.23	24.00
	56	5280	12.59	12.03	-	-	-	15.33	24.00
	64	5320	12.90	12.42	-	-	-	15.68	24.00
	100	5500	12.75	11.02	-	-	-	14.98	24.00
	112	5560	12.53	11.19	-	-	-	14.92	24.00
	140	5700	12.79	11.05	-	-	-	15.02	24.00
	149	5745	12.81	11.19	-	-	-	15.09	30.00
	157	5785	13.02	11.38	-	-	-	15.29	30.00
802.11ac VHT40	165	5825	13.14	11.53	-	-	-	15.42	30.00
	38	5190	13.01	12.43	-	-	-	15.74	24.00
	46	5230	12.78	12.29	-	-	-	15.55	24.00
	54	5270	13.01	12.48	-	-	-	15.76	24.00
	62	5310	13.32	13.14	-	-	-	16.24	24.00
	102	5510	13.29	11.59	-	-	-	15.53	24.00
	110	5550	13.05	11.78	-	-	-	15.47	24.00
	134	5670	13.37	11.71	-	-	-	15.63	24.00
	151	5755	13.39	11.73	-	-	-	15.65	30.00
802.11ac VHT80	159	5795	13.58	11.98	-	-	-	15.86	30.00
	42	5210	11.93	11.46	-	-	-	14.71	24.00
	58	5290	12.59	12.02	-	-	-	15.32	24.00
	106	5530	12.45	10.82	-	-	-	14.72	24.00
	155	5775	12.51	11.02	-	-	-	14.84	30.00

Note: The conducted power limit is the lesser of 24 dBm or $(11 \text{ dBm} + 10\log_{10}(B))$, where B is the 26 dB EBW in MHz.

Mode	CH	Frequency (MHz)	Average power						Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	
			dBm	dBm	dBm	dBm	dBm	dBm	
802.11ax HE20	36	5180	11.58	11.09	-	-	-	14.35	24.00
	40	5200	11.54	10.98	-	-	-	14.28	24.00
	48	5240	11.42	10.89	-	-	-	14.17	24.00
	52	5260	11.63	10.93	-	-	-	14.30	24.00
	56	5280	11.76	11.11	-	-	-	14.46	24.00
	64	5320	12.08	11.48	-	-	-	14.80	24.00
	100	5500	11.91	10.07	-	-	-	14.10	24.00
	112	5560	11.78	10.37	-	-	-	14.14	24.00
	140	5700	12.02	10.24	-	-	-	14.23	24.00
	149	5745	11.98	10.34	-	-	-	14.25	30.00
	157	5785	12.09	10.44	-	-	-	14.35	30.00
802.11ax HE40	165	5825	12.28	10.66	-	-	-	14.56	30.00
	38	5190	11.96	11.53	-	-	-	14.76	24.00
	46	5230	11.82	11.18	-	-	-	14.52	24.00
	54	5270	12.04	11.45	-	-	-	14.77	24.00
	62	5310	12.53	12.13	-	-	-	15.34	24.00
	102	5510	12.31	10.55	-	-	-	14.53	24.00
	110	5550	12.15	10.74	-	-	-	14.51	24.00
	134	5670	12.41	10.78	-	-	-	14.68	24.00
	151	5755	12.38	10.83	-	-	-	14.68	30.00
802.11ax HE80	159	5795	12.46	10.99	-	-	-	14.80	30.00
	42	5210	11.03	10.18	-	-	-	13.64	24.00
	58	5290	11.83	11.05	-	-	-	14.47	24.00
	106	5530	11.65	10.07	-	-	-	13.94	24.00
	155	5775	11.57	10.13	-	-	-	13.92	30.00

Note: The conducted power limit is the lesser of 24 dBm or $(11 \text{ dBm} + 10\log_{10}(B))$, where B is the 26 dB EBW in MHz.

Maximum Conducted Output Power Measurement										
Mode	CH	Frequency (MHz)	Single RU	Average power						Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	
				dBm	dBm	dBm	dBm	dBm	dBm	
802.11ax HE20	36	5180	26 0	2.70	1.91	-	-	-	5.33	24.00
	48	5240	26 8	2.35	1.41	-	-	-	4.92	24.00
	52	5260	26 0	2.41	2.13	-	-	-	5.28	24.00
	64	5320	26 8	3.33	2.34	-	-	-	5.87	24.00
	100	5500	26 0	3.13	0.83	-	-	-	5.14	24.00
	140	5700	26 8	3.21	1.27	-	-	-	5.36	24.00
	149	5745	26 0	2.61	0.80	-	-	-	4.81	30.00
	165	5825	26 8	3.02	1.37	-	-	-	5.28	30.00
	36	5180	52 37	5.49	4.94	-	-	-	8.23	24.00
	48	5240	52 40	5.20	5.11	-	-	-	8.17	24.00
	52	5260	52 37	5.29	5.34	-	-	-	8.33	24.00
	64	5320	52 40	6.06	5.77	-	-	-	8.93	24.00
	100	5500	52 37	5.82	4.37	-	-	-	8.17	24.00
	140	5700	52 40	6.00	4.45	-	-	-	8.30	24.00
	149	5745	52 37	5.96	4.48	-	-	-	8.29	30.00
	165	5825	52 40	6.21	4.92	-	-	-	8.62	30.00
	36	5180	106 53	8.64	8.14	-	-	-	11.41	24.00
	48	5240	106 54	8.28	7.57	-	-	-	10.95	24.00
	52	5260	106 53	8.33	8.54	-	-	-	11.45	24.00
	64	5320	106 54	9.05	8.75	-	-	-	11.91	24.00
	100	5500	106 53	8.80	7.12	-	-	-	11.05	24.00
	140	5700	106 54	8.86	7.32	-	-	-	11.17	24.00
	149	5745	106 53	8.72	7.44	-	-	-	11.14	30.00
	165	5825	106 54	9.07	7.81	-	-	-	11.50	30.00

Note: The conducted power limit is the lesser of 24 dBm or (11 dBm + 10log10(B)), where B is the 26 dB EBW in MHz.

Maximum Conducted Output Power Measurement Transmit power control											
Mode	CH	Frequency (MHz)	Average power						E.I.R.P		EIRP Power Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	Gain	Calculated Results	
			dBm	dBm	dBm	dBm	dBm	dBm	dB	dBm	
802.11a	52	5260	8.51	7.87	-	-	-	11.21	-4.20	1.01	23.39
	56	5280	8.79	8.01	-	-	-	11.43	-4.20	1.23	23.39
	64	5320	8.79	8.15	-	-	-	11.49	-4.20	1.29	23.39
	100	5500	8.69	6.93	-	-	-	10.91	-2.40	2.51	23.40
	112	5560	8.62	7.11	-	-	-	10.94	-2.40	2.54	23.40
	140	5700	8.72	7.16	-	-	-	11.02	-2.40	2.62	23.40
802.11n HT20	52	5260	7.58	6.99	-	-	-	10.31	-4.20	0.11	23.61
	56	5280	7.69	7.12	-	-	-	10.42	-4.20	0.22	23.61
	64	5320	7.95	7.33	-	-	-	10.66	-4.20	0.46	23.61
	100	5500	7.77	5.96	-	-	-	9.97	-2.40	1.57	23.61
	112	5560	7.55	6.15	-	-	-	9.92	-2.40	1.52	23.61
	140	5700	7.79	6.08	-	-	-	10.03	-2.40	1.63	23.61
802.11n HT40	54	5270	8.05	7.45	-	-	-	10.77	-4.20	0.57	24.00
	62	5310	8.09	7.77	-	-	-	10.94	-4.20	0.74	24.00
	102	5510	8.26	6.51	-	-	-	10.48	-2.40	2.08	24.00
	110	5550	8.04	6.74	-	-	-	10.45	-2.40	2.05	24.00
	134	5670	8.28	6.77	-	-	-	10.60	-2.40	2.20	24.00

Note: UNII 1: E.I.R.P 200 mW or $10 + 10 \log_{10}(B)$ dBm, where B is the 99% OBW in MHz.

UNII 2a and UNII 2c: The conducted power limit is the lesser of 24 dBm or $(11 \text{ dBm} + 10 \log_{10}(B))$, where B is the 99% OBW in MHz.

Mode	CH	Frequency (MHz)	Average power						E.I.R.P		EIRP Power Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	Gain	Calculated Results	
			dBm	dBm	dBm	dBm	dBm	dBm	dB	dBm	
802.11ac VHT20	52	5260	6.49	5.94	-	-	-	9.23	-4.20	-0.97	23.61
	56	5280	6.59	6.03	-	-	-	9.33	-4.20	-0.87	23.61
	64	5320	6.90	6.42	-	-	-	9.68	-4.20	-0.52	23.61
	100	5500	6.75	5.02	-	-	-	8.98	-2.40	0.58	23.61
	112	5560	6.53	5.19	-	-	-	8.92	-2.40	0.52	23.61
	140	5700	6.79	5.05	-	-	-	9.02	-2.40	0.62	23.61
802.11ac VHT40	54	5270	7.01	6.48	-	-	-	9.76	-4.20	-0.44	24.00
	62	5310	7.32	7.14	-	-	-	10.24	-4.20	0.04	24.00
	102	5510	7.29	5.59	-	-	-	9.53	-2.40	1.13	24.00
	110	5550	7.05	5.78	-	-	-	9.47	-2.40	1.07	24.00
	134	5670	7.37	5.71	-	-	-	9.63	-2.40	1.23	24.00
802.11ac VHT80	58	5290	6.59	6.02	-	-	-	9.32	-4.20	-0.88	24.00
	106	5530	6.45	4.82	-	-	-	8.72	-2.40	0.32	24.00

Note: UNII 1: E.I.R.P 200 mW or $10 + 10 \log_{10}(B)$ dBm, where B is the 99% OBW in MHz.

UNII 2a and UNII 2c: The conducted power limit is the lesser of 24 dBm or $(11 \text{ dBm} + 10 \log_{10}(B))$, where B is the 99% OBW in MHz.

Mode	CH	Frequency (MHz)	Average power						E.I.R.P		EIRP Power Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	Gain	Calculated Results	
			dBm	dBm	dBm	dBm	dBm	dBm	dB	dBm	
802.11ax HE20	52	5260	5.63	4.93	-	-	-	8.30	-4.20	-1.90	23.84
	56	5280	5.76	5.11	-	-	-	8.46	-4.20	-1.74	23.84
	64	5320	6.08	5.48	-	-	-	8.80	-4.20	-1.40	23.84
	100	5500	5.91	4.07	-	-	-	8.10	-2.40	-0.30	23.84
	112	5560	5.78	4.37	-	-	-	8.14	-2.40	-0.26	23.84
	140	5700	6.02	4.24	-	-	-	8.23	-2.40	-0.17	23.84
802.11ax HE40	54	5270	6.04	5.45	-	-	-	8.77	-4.20	-1.43	24.00
	62	5310	6.53	6.13	-	-	-	9.34	-4.20	-0.86	24.00
	102	5510	6.31	4.55	-	-	-	8.53	-2.40	0.13	24.00
	110	5550	6.15	4.74	-	-	-	8.51	-2.40	0.11	24.00
	134	5670	6.41	4.78	-	-	-	8.68	-2.40	0.28	24.00
802.11ax HE80	58	5290	5.83	5.05	-	-	-	8.47	-4.20	-1.73	24.00
	106	5530	5.65	4.07	-	-	-	7.94	-2.40	-0.46	24.00

Note: UNII 1: E.I.R.P 200 mW or $10 + 10 \log_{10}(B)$ dBm, where B is the 99% OBW in MHz.

UNII 2a and UNII 2c: The conducted power limit is the lesser of 24 dBm or $(11 \text{ dBm} + 10 \log_{10}(B))$, where B is the 99% OBW in MHz.

Mode	Date Rate or Sub-test	CH	Freq. (MHz)	Single RU	Average power						E.I.R.P		EIRP Power Limit
					Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	Gain	Calculated Results	
					dBm	dBm	dBm	dBm	dBm	dBm	dB	dBm	
802.11ax HE20	MCS0	52	5260	26 0	-3.59	-3.87	-	-	-	-0.72	-4.20	-4.92	23.84
		64	5320	26 8	-2.67	-3.66	-	-	-	-0.13	-4.20	-4.33	23.84
		100	5500	26 0	-2.87	-5.17	-	-	-	-0.86	-2.40	-3.26	23.84
		140	5700	26 8	-2.79	-4.73	-	-	-	-0.64	-2.40	-3.04	23.84
		52	5260	52 37	-0.71	-0.66	-	-	-	2.33	-4.20	-1.87	23.84
		64	5320	52 40	0.06	-0.23	-	-	-	2.93	-4.20	-1.27	23.84
		100	5500	52 37	-0.18	-1.63	-	-	-	2.17	-2.40	-0.23	23.84
		140	5700	52 40	0.00	-1.55	-	-	-	2.30	-2.40	-0.10	23.84
		52	5260	106 53	2.33	2.54	-	-	-	5.45	-4.20	1.25	23.84
		64	5320	106 54	3.05	2.75	-	-	-	5.91	-4.20	1.71	23.84
		100	5500	106 53	2.80	1.12	-	-	-	5.05	-2.40	2.65	23.84
		140	5700	106 54	2.86	1.32	-	-	-	5.17	-2.40	2.77	23.84

Note: UNII 1: E.I.R.P 200 mW or $10 + 10 \log_{10}(B)$ dBm, where B is the 99% OBW in MHz.

UNII 2a and UNII 2c: The conducted power limit is the lesser of 24 dBm or $(11 \text{ dBm} + 10\log_{10}(B))$, where B is the 99% OBW in MHz.

26 dB & 99 % RF Bandwidth Measurement												
Mode	CH	Freq. (MHz)	26dB Bandwidth					99% Bandwidth				
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Ant-0	Ant-1	Ant-2	Ant-3	Ant-4
			MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
802.11a	36	5180	23.590	23.190	-	-	-	17.557	17.425	-	-	-
	40	5200	23.670	23.500	-	-	-	17.599	17.418	-	-	-
	48	5240	23.900	22.850	-	-	-	17.603	17.354	-	-	-
	52	5260	23.730	23.040	-	-	-	17.522	17.350	-	-	-
	56	5280	23.660	23.320	-	-	-	17.547	17.395	-	-	-
	64	5320	23.660	23.220	-	-	-	17.545	17.374	-	-	-
	100	5500	23.730	23.640	-	-	-	17.641	17.362	-	-	-
	112	5560	23.380	23.780	-	-	-	17.687	17.473	-	-	-
802.11n HT20	140	5700	23.690	23.630	-	-	-	17.541	17.381	-	-	-
	36	5180	23.920	23.820	-	-	-	18.430	18.259	-	-	-
	40	5200	24.190	23.690	-	-	-	18.386	18.286	-	-	-
	48	5240	23.390	23.660	-	-	-	18.428	18.302	-	-	-
	52	5260	23.970	23.570	-	-	-	18.430	18.337	-	-	-
	56	5280	23.990	23.930	-	-	-	18.427	18.339	-	-	-
	64	5320	24.110	23.780	-	-	-	18.423	18.237	-	-	-
	100	5500	23.980	24.230	-	-	-	18.376	18.259	-	-	-
802.11n HT40	112	5560	23.690	23.480	-	-	-	18.409	18.356	-	-	-
	140	5700	23.710	23.830	-	-	-	18.399	18.259	-	-	-
	38	5190	45.700	44.430	-	-	-	36.828	36.874	-	-	-
	46	5230	45.170	43.990	-	-	-	36.822	36.932	-	-	-
	54	5270	45.170	44.330	-	-	-	36.878	36.806	-	-	-
	62	5310	45.510	45.010	-	-	-	36.865	36.879	-	-	-
	102	5510	45.200	45.630	-	-	-	36.893	36.900	-	-	-
	110	5550	45.040	44.690	-	-	-	36.830	36.824	-	-	-
802.11ac VHT80	134	5670	44.890	44.540	-	-	-	36.778	36.820	-	-	-
	42	5210	93.860	92.970	-	-	-	77.038	77.025	-	-	-
	58	5290	95.980	93.200	-	-	-	77.061	77.112	-	-	-
	106	5530	95.360	92.000	-	-	-	77.230	77.152	-	-	-

26 dB & 99 % RF Bandwidth Measurement												
Mode	CH	Freq. (MHz)	26dB Bandwidth					99% Bandwidth				
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Ant-0	Ant-1	Ant-2	Ant-3	Ant-4
			MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
802.11ax HE20	36	5180	23.320	22.550	-	-	-	19.282	19.298	-	-	-
	40	5200	23.640	23.060	-	-	-	19.275	19.289	-	-	-
	48	5240	23.240	23.430	-	-	-	19.353	19.229	-	-	-
	52	5260	23.430	22.970	-	-	-	19.251	19.215	-	-	-
	56	5280	23.110	23.300	-	-	-	19.274	19.328	-	-	-
	64	5320	23.090	23.010	-	-	-	19.298	19.280	-	-	-
	100	5500	23.070	23.380	-	-	-	19.326	19.328	-	-	-
	112	5560	23.650	23.440	-	-	-	19.214	19.302	-	-	-
802.11ax HE40	140	5700	23.900	23.430	-	-	-	19.283	19.348	-	-	-
	38	5190	44.390	45.230	-	-	-	38.275	38.324	-	-	-
	46	5230	43.850	45.120	-	-	-	38.250	38.227	-	-	-
	54	5270	45.230	44.680	-	-	-	38.220	38.274	-	-	-
	62	5310	44.110	44.390	-	-	-	38.201	38.286	-	-	-
	102	5510	44.640	44.090	-	-	-	38.303	38.225	-	-	-
	110	5550	45.240	44.110	-	-	-	38.230	38.255	-	-	-
	134	5670	44.310	44.310	-	-	-	38.258	38.248	-	-	-
802.11ax HE80	42	5210	91.040	91.660	-	-	-	78.281	78.283	-	-	-
	58	5290	90.970	89.980	-	-	-	78.319	78.333	-	-	-
	106	5530	91.110	90.790	-	-	-	78.362	78.458	-	-	-

Band III_6 dB & 99 % RF Bandwidth Measurement													
Mode	CH	Freq. (MHz)	99 % Bandwidth					6 dB Bandwidth					6dB Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	
			MHz	MHz	MHz	MHz	MHz	kHz	kHz	kHz	kHz	kHz	
802.11a	149	5745	17.894	17.517	-	-	-	16380	16380	-	-	-	≥ 500 kHz
	157	5785	17.782	17.515	-	-	-	16380	16380	-	-	-	
	165	5825	17.783	17.495	-	-	-	16370	16360	-	-	-	
802.11n HT20	149	5745	18.604	18.489	-	-	-	17670	17650	-	-	-	
	157	5785	18.666	18.364	-	-	-	17620	17670	-	-	-	
	165	5825	18.647	18.453	-	-	-	17670	17660	-	-	-	
802.11n HT40	151	5755	37.124	37.069	-	-	-	36530	36530	-	-	-	
	159	5795	37.074	37.015	-	-	-	36530	36530	-	-	-	
802.11ac VHT80	155	5775	76.789	76.657	-	-	-	76390	76370	-	-	-	
802.11ax HE20	149	5745	19.420	19.395	-	-	-	18990	18990	-	-	-	
	157	5785	19.414	19.444	-	-	-	19020	19010	-	-	-	
	165	5825	19.393	19.355	-	-	-	19000	18980	-	-	-	
802.11ax HE40	151	5755	38.470	38.454	-	-	-	38190	38200	-	-	-	
	159	5795	38.427	38.424	-	-	-	38160	38350	-	-	-	
802.11ax HE80	155	5775	78.054	78.086	-	-	-	78170	78090	-	-	-	

Power Spectral Density Measurement										
Mode	CH	Frequency (MHz)	Measurement					Duty Factor	Calculated	Limit
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-4		Total	
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dBm/MHz	
802.11a	36	5180	3.225	2.447	-	-	-	0.000	5.864	11.000
	40	5200	3.209	2.570	-	-	-	0.000	5.912	11.000
	48	5240	2.790	2.664	-	-	-	0.000	5.738	11.000
	52	5260	3.071	2.550	-	-	-	0.000	5.829	11.000
	56	5280	3.284	2.474	-	-	-	0.000	5.908	11.000
	64	5320	3.431	3.023	-	-	-	0.000	6.242	11.000
	100	5500	3.071	1.591	-	-	-	0.000	5.404	11.000
	112	5560	3.126	1.805	-	-	-	0.000	5.526	11.000
	140	5700	3.186	1.562	-	-	-	0.000	5.460	11.000
802.11n HT20	36	5180	2.018	0.975	-	-	-	0.000	4.538	11.000
	40	5200	1.909	1.027	-	-	-	0.000	4.501	11.000
	48	5240	1.412	1.223	-	-	-	0.000	4.329	11.000
	52	5260	1.908	1.337	-	-	-	0.000	4.642	11.000
	56	5280	1.941	1.265	-	-	-	0.000	4.626	11.000
	64	5320	2.226	1.718	-	-	-	0.000	4.990	11.000
	100	5500	1.919	0.406	-	-	-	0.000	4.238	11.000
	112	5560	1.688	0.503	-	-	-	0.000	4.146	11.000
	140	5700	1.926	0.467	-	-	-	0.000	4.268	11.000
802.11n HT40	38	5190	-0.879	-1.606	-	-	-	0.044	1.827	11.000
	46	5230	-1.151	-1.489	-	-	-	0.044	1.737	11.000
	54	5270	-0.815	-1.408	-	-	-	0.044	1.953	11.000
	62	5310	-0.612	-0.987	-	-	-	0.044	2.259	11.000
	102	5510	-0.797	-2.562	-	-	-	0.044	1.464	11.000
	110	5550	-1.015	-2.267	-	-	-	0.044	1.458	11.000
	134	5670	-0.926	-2.458	-	-	-	0.044	1.429	11.000
802.11ac VHT80	42	5210	-5.622	-5.658	-	-	-	0.000	-2.630	11.000
	58	5290	-4.501	-5.409	-	-	-	0.000	-1.921	11.000
	106	5530	-5.122	-6.300	-	-	-	0.000	-2.661	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	Ant-4		Total	
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dBm/MHz	
802.11ax HE20	36	5180	-0.282	-0.995	-	-	-	0.000	2.386	11.000
	40	5200	-0.239	-1.060	-	-	-	0.000	2.380	11.000
	48	5240	-0.448	-0.949	-	-	-	0.000	2.319	11.000
	52	5260	-0.510	-0.893	-	-	-	0.000	2.313	11.000
	56	5280	-0.302	-1.115	-	-	-	0.000	2.321	11.000
	64	5320	0.137	-0.547	-	-	-	0.000	2.819	11.000
	100	5500	-0.031	-2.046	-	-	-	0.000	2.088	11.000
	112	5560	-0.278	-1.786	-	-	-	0.000	2.043	11.000
	140	5700	0.009	-1.806	-	-	-	0.000	2.206	11.000
802.11ax HE40	38	5190	-2.744	-3.360	-	-	-	0.000	-0.031	11.000
	46	5230	-2.926	-3.552	-	-	-	0.000	-0.217	11.000
	54	5270	-2.855	-3.298	-	-	-	0.000	-0.061	11.000
	62	5310	-2.429	-2.768	-	-	-	0.000	0.415	11.000
	102	5510	-2.589	-4.522	-	-	-	0.000	-0.439	11.000
	110	5550	-2.618	-4.169	-	-	-	0.000	-0.314	11.000
	134	5670	-2.687	-4.266	-	-	-	0.000	-0.395	11.000
802.11ax HE80	42	5210	-6.420	-6.708	-	-	-	0.000	-3.551	11.000
	58	5290	-6.322	-6.187	-	-	-	0.000	-3.244	11.000
	106	5530	-7.175	-7.239	-	-	-	0.000	-4.197	11.000

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

Power Spectral Density Measurement											
Mode	CH	Frequency (MHz)	Single RU	Measurement					Duty Factor	Calculated	Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Ant-4		Total	
				dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dB	dBm/MHz	dBm/MHz
802.11ax HE20	36	5180	26 0	-0.863	-1.611	-	-	-	0.309	2.098	11.000
	48	5240	26 8	-0.942	-1.624	-	-	-	0.309	2.049	11.000
	52	5260	26 0	-1.094	-1.379	-	-	-	0.309	2.085	11.000
	64	5320	26 8	-0.573	-1.051	-	-	-	0.309	2.513	11.000
	100	5500	26 0	-0.675	-2.451	-	-	-	0.309	1.846	11.000
802.11ax HE20	140	5700	26 8	-0.617	-2.250	-	-	-	0.309	1.962	11.000
	36	5180	52 37	-1.089	-1.497	-	-	-	0.311	2.033	11.000
	48	5240	52 40	-1.026	-1.518	-	-	-	0.311	2.056	11.000
	52	5260	52 37	-1.194	-1.298	-	-	-	0.311	2.076	11.000
	64	5320	52 40	-0.775	-0.981	-	-	-	0.311	2.444	11.000
802.11ax HE20	100	5500	52 37	-0.949	-2.261	-	-	-	0.311	1.766	11.000
	140	5700	52 40	-0.778	-2.113	-	-	-	0.311	1.927	11.000
	36	5180	106 53	-0.977	-1.510	-	-	-	0.279	2.054	11.000
	48	5240	106 54	-1.045	-1.821	-	-	-	0.279	1.874	11.000
	52	5260	106 53	-1.135	-1.223	-	-	-	0.279	2.111	11.000
802.11ax HE20	64	5320	106 54	-0.614	-0.784	-	-	-	0.279	2.591	11.000
	100	5500	106 53	-0.755	-2.418	-	-	-	0.279	1.782	11.000
	140	5700	106 54	-0.580	-2.326	-	-	-	0.279	1.924	11.000

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

Band III - Power Spectral Density Measurement																
Mode	CH	Frequency (MHz)	Measurement										Duty Factor	Calculated	Limit	PASS/FAIL
			Ant-0		Ant-1		Ant-2		Ant-3		Ant-4					
			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	dB	dBm/500 kHz	dBm/500 kHz	
802.11a	149	5745	-5.445	1.545	-7.432	-0.442	-	-	-	-	-	0.000	3.674	30.00	PASS	
	157	5785	-5.336	1.654	-6.774	0.216	-	-	-	-	-	0.000	4.004	30.00	PASS	
	165	5825	-5.544	1.446	-6.845	0.145	-	-	-	-	-	0.000	3.854	30.00	PASS	
802.11n HT20	149	5745	-7.057	-0.067	-8.515	-1.525	-	-	-	-	-	0.000	2.275	30.00	PASS	
	157	5785	-6.640	0.350	-8.265	-1.275	-	-	-	-	-	0.000	2.623	30.00	PASS	
	165	5825	-6.607	0.383	-8.017	-1.027	-	-	-	-	-	0.000	2.745	30.00	PASS	
802.11n HT40	151	5755	-9.728	-2.738	-11.346	-4.356	-	-	-	-	-	0.044	-0.418	30.00	PASS	
	159	5795	-9.411	-2.421	-10.827	-3.837	-	-	-	-	-	0.044	-0.018	30.00	PASS	
	802.11ac VHT80	155	5775	-14.218	-7.228	-15.540	-8.550	-	-	-	-	-	0.000	-4.829	30.00	PASS
802.11ax HE20	149	5745	-10.344	-3.354	-11.770	-4.780	-	-	-	-	-	0.000	-0.999	30.00	PASS	
	157	5785	-10.074	-3.084	-11.347	-4.357	-	-	-	-	-	0.000	-0.664	30.00	PASS	
	165	5825	-9.694	-2.704	-11.409	-4.419	-	-	-	-	-	0.000	-0.467	30.00	PASS	
802.11ax HE40	151	5755	-12.787	-5.797	-14.244	-7.254	-	-	-	-	-	0.000	-3.455	30.00	PASS	
	159	5795	-12.640	-5.650	-13.689	-6.699	-	-	-	-	-	0.000	-3.133	30.00	PASS	
	802.11ax HE80	155	5775	-17.449	-10.459	-17.372	-10.382	-	-	-	-	-	0.000	-7.410	30.00	PASS

Note: Power Density (dBm/500kHz) = Measured result (dBm /100 kHz) + duty factor(dB) + Conversion ratio (dB) .
Conversion ratio = 10*Log(500 k/100 k)

Band III Power Spectral Density Measurement																	
Mode	CH	Frequency (MHz)	#VALUE!	Measurement										Duty Factor	Calculated	Limit	PASS/FAIL
				Ant-0		Ant-1		Ant-2		Ant-3		Ant-4			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	dB	dBm/500 kHz	dBm/500 kHz	
802.11ax HE20	149	5745	26 0	-10.727	-3.737	-12.433	-5.443	-	-	-	-	-	-	0.309	-1.188	30.00	PASS
	165	5825	26 8	-10.275	-3.285	-11.89	-4.900	-	-	-	-	-	-	0.309	-0.699	30.00	PASS
	149	5745	52 37	-10.806	-3.816	-12.513	-5.523	-	-	-	-	-	-	0.311	-1.265	30.00	PASS
	165	5825	52 40	-10.316	-3.326	-11.817	-4.827	-	-	-	-	-	-	0.311	-0.691	30.00	PASS
	149	5745	106 53	-10.787	-3.797	-12.429	-5.439	-	-	-	-	-	-	0.279	-1.252	30.00	PASS
	165	5825	106 54	-10.304	-3.314	-11.823	-4.833	-	-	-	-	-	-	0.279	-0.718	30.00	PASS