

# 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	5955	2.105	2.110	99.76	0.01	0.48
802.11ax_20	5955	10.000	10.000	100.00	0.00	0.10
802.11ax_40	5965	10.000	10.000	100.00	0.00	0.10
802.11ax_80	5985	10.000	10.000	100.00	0.00	0.10
802.11ax_160	6025	10.000	10.000	100.00	0.00	0.10

**RF power setting in Test SW**

Mode	CH	Frequency (MHz)		Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11a	1	5955		3	3	-	-	QRCT v4.0 Version 4.0.209.0
	45	6175		3.5	3.5	-	-	
	93	6415		1	1	-	-	
	97	6435		-1.5	-1.5	-	-	
	105	6475		0.5	0.5	-	-	
	113	6515		0.5	0.5	-	-	
	117	6535		0.5	0.5	-	-	
	149	6695		2	2	-	-	
	181	6855		3	3	-	-	
	185	6875		3	3	-	-	
	189	6895		3	3	-	-	
209	6995		3	3	-	-		
233	7115		3.5	3.5	-	-		
802.11ax HE20	1	5955	full	3	3	-	-	QRCT v4.0 Version 4.0.209.0
	45	6175	full	4	4	-	-	
	93	6415	full	1	1	-	-	
	97	6435	full	-1	-1	-	-	
	105	6475	full	0.5	0.5	-	-	
	113	6515	full	0.5	0.5	-	-	
	149	6695	full	2	2	-	-	
	181	6855	full	3	3	-	-	
	185	6875	full	3.5	3.5	-	-	
	189	6895	full	3.5	3.5	-	-	
	209	6995	full	3.5	3.5	-	-	
233	7115	full	3	3	-	-		
802.11ax HE40	3	5965	full	6	6	-	-	QRCT v4.0 Version 4.0.209.0
	43	6165	full	6.5	6.5	-	-	
	91	6405	full	4.5	4.5	-	-	
	99	6445	full	4.5	4.5	-	-	
	107	6485	full	4.5	4.5	-	-	
	115	6525	full	4	4	-	-	
	123	6565	full	4.5	4.5	-	-	
	147	6685	full	5	5	-	-	
	179	6845	full	6	6	-	-	
	187	6885	full	6	6	-	-	
	195	6925	full	5.5	5.5	-	-	
211	7005	full	5.5	5.5	-	-		
227	7085	full	6.5	6.5	-	-		

Mode	CH	Frequency (MHz)	RU Config	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11ax HE80	7	5985	full	9.5	9.5	-	-	QRCT v4.0 Version 4.0.209.0
	39	6145	full	9.5	9.5	-	-	
	87	6385	full	8	8	-	-	
	103	6465	full	7.5	7.5	-	-	
	119	6545	full	7	7	-	-	
	135	6625	full	7	7	-	-	
	151	6705	full	8	8	-	-	
	167	6785	full	9	9	-	-	
	183	6865	full	8.5	8.5	-	-	
	199	6945	full	8.5	8.5	-	-	
215	7025	full	9	9	-	-		
802.11ax HE160	15	6025	full	12.5	12.5	-	-	
	47	6185	full	12.5	12.5	-	-	
	79	6345	full	10	10	-	-	
	111	6505	full	10	10	-	-	
	143	6665	full	10	10	-	-	
	175	6825	full	12	12	-	-	
207	6985	full	10.5	10.5	-	-		

Maximum Conducted Output Power Measurement

Band	CH	Freq. (MHz)		Measurement								
				Ant-0	Ant-1	Ant-2	Ant-3	Total	Directional Gain(dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/MHz)
				dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz				
802.11a	1	5955		1.32	3.08	-	-	5.30	1.70	7.00	0.0050	24
	45	6175		1.39	3.25	-	-	5.43	1.70	7.13	0.0052	24
	93	6415		1.44	2.93	-	-	5.26	1.70	6.96	0.0050	24
	97	6435		1.23	2.85	-	-	5.13	1.70	6.83	0.0048	24
	105	6475		1.11	2.87	-	-	5.09	1.70	6.79	0.0048	24
	113	6515		0.46	3.02	-	-	4.94	1.70	6.64	0.0046	24
	117	6535		0.47	3.13	-	-	5.01	1.70	6.71	0.0047	24
	149	6695		1.29	3.88	-	-	5.79	1.70	7.49	0.0056	24
	181	6855		2.35	2.46	-	-	5.42	1.70	7.12	0.0052	24
	185	6875		2.33	2.47	-	-	5.41	1.70	7.11	0.0051	24
	189	6895		2.16	2.43	-	-	5.31	1.70	7.01	0.0050	24
	209	6995		1.69	2.31	-	-	5.02	1.70	6.72	0.0047	24
233	7115		3.11	2.12	-	-	5.65	1.70	7.35	0.0054	24	
Band	CH	Freq. (MHz)		Measurement								
				Ant-0	Ant-1	Ant-2	Ant-3	Total	Directional Gain(dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/MHz)
				dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz				
802.11ax HE20	1	5955	full	1.26	2.30	-	-	4.82	1.70	6.52	0.0045	24
	45	6175	full	1.30	2.51	-	-	4.96	1.70	6.66	0.0046	24
	93	6415	full	1.40	2.23	-	-	4.85	1.70	6.55	0.0045	24
	97	6435	full	1.13	2.19	-	-	4.70	1.70	6.40	0.0044	24
	105	6475	full	1.03	2.21	-	-	4.67	1.70	6.37	0.0043	24
	113	6515	full	0.38	2.22	-	-	4.41	1.70	6.11	0.0041	24
	117	6535	full	0.40	2.23	-	-	4.42	1.70	6.12	0.0041	24
	149	6695	full	1.17	3.21	-	-	5.32	1.70	7.02	0.0050	24
	181	6855	full	2.26	1.33	-	-	4.83	1.70	6.53	0.0045	24
	185	6875	full	2.25	1.47	-	-	4.89	1.70	6.59	0.0046	24
	189	6895	full	2.11	1.32	-	-	4.74	1.70	6.44	0.0044	24
	209	6995	full	1.62	1.20	-	-	4.43	1.70	6.13	0.0041	24
233	7115	full	2.25	-0.10	-	-	4.24	1.70	5.94	0.0039	24	

Band	CH	Freq. (MHz)		Measurement								
				Ant-0	Ant-1	Ant-2	Ant-3	Total	Directional Gain(dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/MHz)
				dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz				
802.11ax HE40	3	5965	full	4.06	5.59	-	-	7.90	1.70	9.60	0.0091	24
	43	6165	full	4.23	5.44	-	-	7.89	1.70	9.59	0.0091	24
	91	6405	full	4.86	5.05	-	-	7.97	1.70	9.67	0.0093	24
	99	6445	full	4.52	4.83	-	-	7.69	1.70	9.39	0.0087	24
	107	6485	full	4.41	4.92	-	-	7.68	1.70	9.38	0.0087	24
	115	6525	full	3.72	5.08	-	-	7.46	1.70	9.16	0.0082	24
	123	6565	full	3.27	4.98	-	-	7.22	1.70	8.92	0.0078	24
	147	6685	full	4.13	5.43	-	-	7.84	1.70	9.54	0.0090	24
	179	6845	full	5.25	5.00	-	-	8.14	1.70	9.84	0.0096	24
	187	6885	full	5.41	4.34	-	-	7.92	1.70	9.62	0.0092	24
	195	6925	full	5.61	4.33	-	-	8.03	1.70	9.73	0.0094	24
	221	7005	full	5.08	3.76	-	-	7.48	1.70	9.18	0.0083	24
227	7085	full	5.94	4.33	-	-	8.22	1.70	9.92	0.0098	24	
802.11ax HE80	7	5985	full	7.06	8.39	-	-	10.79	1.70	12.49	0.0177	24
	39	6145	full	7.40	8.54	-	-	11.02	1.70	12.72	0.0187	24
	87	6385	full	7.62	7.94	-	-	10.79	1.70	12.49	0.0177	24
	103	6465	full	7.37	7.93	-	-	10.67	1.70	12.37	0.0173	24
	119	6545	full	6.61	8.01	-	-	10.38	1.70	12.08	0.0161	24
	135	6625	full	7.02	8.47	-	-	10.82	1.70	12.52	0.0179	24
	151	6705	full	7.35	8.78	-	-	11.13	1.70	12.83	0.0192	24
	167	6785	full	8.51	8.97	-	-	11.76	1.70	13.46	0.0222	24
	183	6865	full	8.76	8.02	-	-	11.42	1.70	13.12	0.0205	24
	199	6945	full	8.24	7.39	-	-	10.85	1.70	12.55	0.0180	24
215	7025	full	8.21	7.43	-	-	10.85	1.70	12.55	0.0180	24	
Band	CH	Freq. (MHz)		Measurement								
				Ant-0	Ant-1	Ant-2	Ant-3	Total	Directional Gain(dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/MHz)
				dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz				
802.11ax HE160	15	6025	full	9.96	10.95	-	-	13.49	1.70	15.19	0.0330	24
	47	6185	full	10.52	11.54	-	-	14.07	1.70	15.77	0.0378	24
	79	6345	full	10.50	11.22	-	-	13.89	1.70	15.59	0.0362	24
	111	6505	full	9.83	11.42	-	-	13.71	1.70	15.41	0.0348	24
	143	6665	full	9.55	11.83	-	-	13.85	1.70	15.55	0.0359	24
	175	6825	full	11.44	11.41	-	-	14.44	1.70	16.14	0.0411	24
207	6985	full	10.13	10.26	-	-	13.21	1.70	14.91	0.0310	24	

26 dB & 99 % RF Bandwidth Measurement

Band	CH	Freq. (MHz)	99 % Bandwidth				26 dB Bandwidth				Limit (MHz)
			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	1	5955	16.390	16.387	-	-	19.100	19.060	-	-	320
	45	6175	16.413	16.409	-	-	19.050	18.950	-	-	320
	93	6415	16.416	16.392	-	-	19.090	19.210	-	-	320
	97	6435	16.433	16.411	-	-	19.000	19.020	-	-	320
	105	6475	16.440	16.389	-	-	19.190	18.970	-	-	320
	113	6515	16.423	16.389	-	-	19.100	18.900	-	-	320
	117	6535	16.437	16.394	-	-	19.280	19.060	-	-	320
	149	6695	16.415	16.385	-	-	19.330	18.930	-	-	320
	181	6855	16.407	16.398	-	-	19.430	19.130	-	-	320
	185	6875	16.396	16.377	-	-	19.010	19.040	-	-	320
	189	6895	16.393	16.382	-	-	19.240	19.190	-	-	320
209	6995	16.415	16.382	-	-	19.270	19.090	-	-	320	
233	7115	16.386	16.414	-	-	19.180	19.850	-	-	320	
802.11ax HE20	1	5955	18.970	18.939	-	-	20.800	20.900	-	-	320
	45	6175	18.929	18.954	-	-	20.910	21.060	-	-	320
	93	6415	18.857	18.908	-	-	20.750	20.950	-	-	320
	97	6435	18.872	18.964	-	-	20.880	20.920	-	-	320
	105	6475	18.883	18.933	-	-	20.870	21.320	-	-	320
	113	6515	18.834	18.959	-	-	20.600	21.120	-	-	320
	117	6535	18.867	18.951	-	-	20.790	21.160	-	-	320
	149	6695	18.877	18.959	-	-	20.650	20.960	-	-	320
	181	6855	18.927	18.962	-	-	20.870	21.330	-	-	320
	185	6875	18.939	18.949	-	-	20.830	21.020	-	-	320
	189	6895	18.903	18.952	-	-	21.030	20.890	-	-	320
209	6995	18.916	18.953	-	-	20.970	20.850	-	-	320	
233	7115	18.954	18.929	-	-	20.650	20.960	-	-	320	
802.11ax HE40	3	5965	37.686	37.722	-	-	40.060	40.260	-	-	320
	43	6165	37.773	37.741	-	-	39.860	40.540	-	-	320
	91	6405	37.726	37.796	-	-	40.130	40.080	-	-	320
	99	6445	37.745	37.814	-	-	40.240	40.520	-	-	320
	107	6485	37.747	37.778	-	-	40.480	40.280	-	-	320
	115	6525	37.775	37.736	-	-	40.480	40.450	-	-	320
	123	6565	37.799	37.649	-	-	40.190	40.290	-	-	320
	147	6685	37.823	37.743	-	-	40.390	39.870	-	-	320
	179	6845	37.774	37.695	-	-	40.420	40.310	-	-	320
	187	6885	37.780	37.742	-	-	40.480	40.160	-	-	320
	195	6925	37.761	37.754	-	-	40.180	40.360	-	-	320
	211	7005	37.775	37.732	-	-	40.430	39.920	-	-	320
227	7085	37.768	37.708	-	-	40.210	39.690	-	-	320	
802.11ax HE80	7	5985	77.254	77.293	-	-	81.060	81.630	-	-	320
	39	6145	77.202	77.361	-	-	81.220	81.700	-	-	320
	87	6385	77.227	77.123	-	-	81.790	81.480	-	-	320
	103	6465	77.233	77.177	-	-	81.120	82.120	-	-	320
	119	6545	77.354	77.148	-	-	81.220	81.380	-	-	320
	135	6625	77.292	77.119	-	-	81.070	81.670	-	-	320
	151	6705	77.342	77.268	-	-	81.560	81.150	-	-	320
	167	6785	77.542	77.190	-	-	81.760	81.040	-	-	320
	183	6865	77.324	77.199	-	-	81.540	81.540	-	-	320
199	6945	77.411	77.391	-	-	82.400	81.750	-	-	320	
215	7025	77.362	77.285	-	-	81.230	81.590	-	-	320	
802.11ax HE160	15	6025	156.220	156.330	-	-	163.200	164.300	-	-	320
	47	6185	156.600	156.170	-	-	163.300	162.700	-	-	320
	79	6345	156.330	156.440	-	-	163.800	163.700	-	-	320
	111	6505	156.530	156.350	-	-	163.800	163.200	-	-	320
	143	6665	156.560	156.420	-	-	163.700	163.700	-	-	320
	175	6825	156.610	156.470	-	-	163.400	164.200	-	-	320
207	6985	156.380	156.190	-	-	163.800	163.700	-	-	320	

Power Spectral Density Measurement

Band	CH	Freq. (MHz)	Measurement									
			Ant-0	Ant-1	Ant-2	Ant-3	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz						
802.11a	1	5955	-9.55	-8.42	-	-	0.01	-5.93	4.71	-1.22	-1.00	
	45	6175	-9.67	-9.53	-	-	0.01	-6.58	4.71	-1.87	-1.00	
	93	6415	-9.75	-8.09	-	-	0.01	-5.82	4.71	-1.11	-1.00	
	97	6435	-10.12	-8.21	-	-	0.01	-6.04	4.71	-1.33	-1.00	
	105	6475	-9.91	-8.22	-	-	0.01	-5.96	4.71	-1.25	-1.00	
	113	6515	-9.63	-8.05	-	-	0.01	-5.75	4.71	-1.04	-1.00	
	117	6535	-8.99	-8.82	-	-	0.01	-5.88	4.71	-1.17	-1.00	
	149	6695	-9.72	-8.76	-	-	0.01	-6.19	4.71	-1.48	-1.00	
	181	6855	-9.01	-9.06	-	-	0.01	-6.01	4.71	-1.30	-1.00	
	185	6875	-9.24	-9.01	-	-	0.01	-6.10	4.71	-1.39	-1.00	
	189	6895	-9.53	-8.44	-	-	0.01	-5.93	4.71	-1.22	-1.00	
802.11ax HE20	209	6995	-10.01	-8.47	-	-	0.01	-6.15	4.71	-1.44	-1.00	
	233	7115	-8.78	-11.36	-	-	0.01	-6.86	4.71	-2.15	-1.00	
	1	5955	full	-9.75	-8.09	-	-	0.00	-5.83	4.71	-1.12	-1.00
	45	6175	full	-9.19	-8.51	-	-	0.00	-5.83	4.71	-1.12	-1.00
	93	6415	full	-10.18	-8.09	-	-	0.00	-6.00	4.71	-1.29	-1.00
	97	6435	full	-9.86	-7.95	-	-	0.00	-5.79	4.71	-1.08	-1.00
	105	6475	full	-10.07	-8.41	-	-	0.00	-6.15	4.71	-1.44	-1.00
	113	6515	full	-9.95	-8.04	-	-	0.00	-5.88	4.71	-1.17	-1.00
	117	6535	full	-9.14	-8.92	-	-	0.00	-6.01	4.71	-1.30	-1.00
	149	6695	full	-9.91	-8.67	-	-	0.00	-6.23	4.71	-1.52	-1.00
	181	6855	full	-8.77	-9.19	-	-	0.00	-5.97	4.71	-1.26	-1.00
	185	6875	full	-8.75	-9.26	-	-	0.00	-5.99	4.71	-1.28	-1.00
	189	6895	full	-8.37	-9.47	-	-	0.00	-5.88	4.71	-1.17	-1.00
209	6995	full	-8.57	-9.79	-	-	0.00	-6.13	4.71	-1.42	-1.00	
233	7115	full	-9.31	-11.69	-	-	0.00	-7.33	4.71	-2.62	-1.00	

Band	CH	Freq. (MHz)	RU config.	Measurement								
				Ant-0	Ant-1	Ant-2	Ant-3	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
				dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz					
802.11ax HE40	3	5965	full	-9.92	-8.73	-	-	0.00	-6.27	4.71	-1.56	-1.00
	43	6165	full	-9.45	-8.48	-	-	0.00	-5.93	4.71	-1.22	-1.00
	91	6405	full	-9.12	-8.86	-	-	0.00	-5.98	4.71	-1.27	-1.00
	99	6445	full	-9.12	-8.52	-	-	0.00	-5.80	4.71	-1.09	-1.00
	107	6485	full	-9.23	-8.46	-	-	0.00	-5.82	4.71	-1.11	-1.00
	115	6525	full	-9.49	-8.34	-	-	0.00	-5.87	4.71	-1.16	-1.00
	123	6565	full	-9.69	-8.09	-	-	0.00	-5.80	4.71	-1.09	-1.00
	147	6685	full	-9.80	-8.35	-	-	0.00	-6.01	4.71	-1.30	-1.00
	179	6845	full	-8.89	-9.31	-	-	0.00	-6.09	4.71	-1.38	-1.00
	187	6885	full	-8.47	-9.17	-	-	0.00	-5.79	4.71	-1.08	-1.00
	195	6925	full	-8.60	-9.42	-	-	0.00	-5.98	4.71	-1.27	-1.00
	211	7005	full	-8.84	-9.23	-	-	0.00	-6.02	4.71	-1.31	-1.00
802.11ax HE80	227	7085	full	-8.40	-9.27	-	-	0.00	-5.80	4.71	-1.09	-1.00
	7	5985	full	-9.32	-8.48	-	-	0.00	-5.87	4.71	-1.16	-1.00
	39	6145	full	-9.61	-8.45	-	-	0.00	-5.98	4.71	-1.27	-1.00
	87	6385	full	-9.05	-8.66	-	-	0.00	-5.84	4.71	-1.13	-1.00
	103	6465	full	-8.94	-8.64	-	-	0.00	-5.78	4.71	-1.07	-1.00
	119	6545	full	-9.41	-8.23	-	-	0.00	-5.77	4.71	-1.06	-1.00
	135	6625	full	-10.27	-8.22	-	-	0.00	-6.11	4.71	-1.40	-1.00
	151	6705	full	-9.45	-8.30	-	-	0.00	-5.83	4.71	-1.12	-1.00
	167	6785	full	-9.04	-8.78	-	-	0.00	-5.89	4.71	-1.18	-1.00
	183	6865	full	-8.56	-9.10	-	-	0.00	-5.81	4.71	-1.10	-1.00
802.11ax HE160	199	6945	full	-8.53	-9.33	-	-	0.00	-5.90	4.71	-1.19	-1.00
	215	7025	full	-8.56	-9.23	-	-	0.00	-5.87	4.71	-1.16	-1.00
	15	6025	full	-9.34	-8.39	-	-	0.00	-5.83	4.71	-1.12	-1.00
	47	6185	full	-9.53	-8.55	-	-	0.00	-6.00	4.71	-1.29	-1.00
	79	6345	full	-9.46	-8.84	-	-	0.00	-6.13	4.71	-1.42	-1.00
	111	6505	full	-9.76	-8.61	-	-	0.00	-6.14	4.71	-1.43	-1.00
	143	6665	full	-10.06	-8.52	-	-	0.00	-6.21	4.71	-1.50	-1.00
175	6825	full	-9.56	-8.87	-	-	0.00	-6.19	4.71	-1.48	-1.00	
207	6985	full	-9.23	-8.64	-	-	0.00	-5.92	4.71	-1.21	-1.00	