

Appendix A. Test Data

For FCC+IC

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	1.410	1.440	97.917	0.091	0.709
802.11n HT20	5180	0.690	0.730	94.521	0.245	1.449
802.11n HT40	5190	0.354	0.402	88.060	0.552	2.825
802.11ac VHT20	5180	1.328	1.368	97.076	0.129	0.753
802.11ac VHT40	5190	0.664	0.704	94.318	0.254	1.506
802.11ac VHT80	5210	1.155	1.195	96.653	0.148	0.866

RF power setting in Test SW

Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11a	36	5180	16.5	16.5	-	-	ADB
	40	5200	17	17	-	-	
	48	5240	16.5	16.5	-	-	
	52	5260	16.5	16.5	-	-	
	56	5280	16.5	16.5	-	-	
	64	5320	15.5	15.5	-	-	
	100	5500	13.5	13.5	-	-	
	112	5560	16.5	16.5	-	-	
	140	5700	14	14	-	-	
	144	5720	17	17	-	-	
	149	5745	16.5	16.5	-	-	
	157	5785	17.5	17.5	-	-	
	165	5825	19	19	-	-	
802.11n HT20	36	5180	15	15	-	-	ADB
	40	5200	16.5	16.5	-	-	
	48	5240	17	17	-	-	
	52	5260	17	17	-	-	
	56	5280	16.5	16.5	-	-	
	64	5320	15	15	-	-	
	100	5500	16.5	16.5	-	-	
	112	5560	17	17	-	-	
	140	5700	13.5	13.5	-	-	
	144	5720	17.5	17.5	-	-	
	149	5745	17	17	-	-	
	157	5785	17.5	17.5	-	-	
	165	5825	18	18	-	-	
802.11n HT40	38	5190	12.5	12.5	-	-	ADB
	46	5230	17.5	17.5	-	-	
	54	5270	17.5	17.5	-	-	
	62	5310	14	14	-	-	
	102	5510	13	13	-	-	
	110	5550	18.5	18.5	-	-	
	134	5670	15.5	15.5	-	-	
	142	5710	18	18	-	-	
	151	5755	18	18	-	-	
	159	5795	18	18	-	-	

Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11ac VHT20	36	5180	15	15	-	-	ADB
	40	5200	16.5	16.5	-	-	
	48	5240	17	17	-	-	
	52	5260	17	17	-	-	
	56	5280	16.5	16.5	-	-	
	64	5320	15	15	-	-	
	100	5500	16.5	16.5	-	-	
	112	5560	17	17	-	-	
	140	5700	13.5	13.5	-	-	
	144	5720	17.5	17.5	-	-	
	149	5745	17	17	-	-	
	157	5785	17.5	17.5	-	-	
802.11ac VHT40	38	5190	12.5	12.5	-	-	ADB
	46	5230	17.5	17.5	-	-	
	54	5270	17.5	17.5	-	-	
	62	5310	14	14	-	-	
	102	5510	13	13	-	-	
	110	5550	18.5	18.5	-	-	
	134	5670	15.5	15.5	-	-	
	142	5710	18	18	-	-	
	151	5755	18	18	-	-	
	159	5795	18	18	-	-	
802.11ac VHT80	42	5210	10.5	10.5	-	-	ADB
	58	5290	12	12	-	-	
	106	5530	12	12	-	-	
	138	5690	18.5	18.5	-	-	
	155	5775	18.5	18.5	-	-	

Maximum Conducted Output Power Measurement

Mode	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	17.41	17.44	-	-	20.44	24.00
		40	5200	17.73	17.93	-	-	20.84	24.00
		48	5240	17.18	17.14	-	-	20.17	24.00
		52	5260	17.49	17.41	-	-	20.46	24.00
		56	5280	17.36	17.10	-	-	20.24	24.00
		64	5320	16.58	16.16	-	-	19.39	24.00
		100	5500	14.71	14.94	-	-	17.84	24.00
		112	5560	17.63	17.82	-	-	20.74	24.00
		140	5700	15.47	15.66	-	-	18.58	24.00
		144	5720	17.00	17.25	-	-	20.14	22.80
		144	5720	9.46	9.73	-	-	12.61	30.00
		149	5745	17.63	18.00	-	-	20.83	30.00
		157	5785	18.38	18.49	-	-	21.45	30.00
		165	5825	19.62	19.78	-	-	22.71	30.00
802.11n HT20	13M	36	5180	15.54	16.23	-	-	18.91	24.00
		40	5200	16.96	17.41	-	-	20.20	24.00
		48	5240	17.43	17.64	-	-	20.55	24.00
		52	5260	17.46	17.57	-	-	20.53	24.00
		56	5280	17.17	17.29	-	-	20.24	24.00
		64	5320	16.09	15.46	-	-	18.80	24.00
		100	5500	16.84	16.94	-	-	19.90	24.00
		112	5560	17.41	18.00	-	-	20.73	24.00
		140	5700	13.94	14.41	-	-	17.19	24.00
		144	5720	17.22	17.04	-	-	20.14	22.80
		144	5720	10.13	10.26	-	-	13.21	30.00
		149	5745	17.60	18.21	-	-	20.93	30.00
		157	5785	18.21	18.69	-	-	21.47	30.00
		165	5825	18.28	18.65	-	-	21.48	30.00
802.11n HT40	27M	38	5190	13.34	13.21	-	-	16.29	24.00
		46	5230	18.27	18.63	-	-	21.46	24.00
		54	5270	18.33	18.57	-	-	21.46	24.00
		62	5310	14.52	14.66	-	-	17.60	24.00
		102	5510	13.95	13.96	-	-	16.97	24.00
		110	5550	19.27	19.31	-	-	22.30	24.00
		134	5670	16.64	16.82	-	-	19.74	24.00
		142	5710	17.89	18.16	-	-	21.04	24.00
		142	5710	5.98	6.33	-	-	9.17	30.00
		151	5755	18.85	19.06	-	-	21.97	30.00
		159	5795	18.50	18.94	-	-	21.74	30.00

Mode	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	15.90	16.51	-	-	19.23	24.00
		40	5200	17.20	17.66	-	-	20.45	24.00
		48	5240	17.78	17.97	-	-	20.89	24.00
		52	5260	17.68	17.80	-	-	20.75	24.00
		56	5280	17.54	17.61	-	-	20.59	24.00
		64	5320	16.38	15.85	-	-	19.13	24.00
		100	5500	17.08	17.23	-	-	20.17	24.00
		112	5560	17.76	18.24	-	-	21.02	24.00
		140	5700	14.34	14.76	-	-	17.57	24.00
		144	5720	17.38	17.40	-	-	20.40	22.80
		144	5720	10.43	10.30	-	-	13.37	30.00
		149	5745	17.99	18.52	-	-	21.27	30.00
		157	5785	18.58	18.92	-	-	21.76	30.00
165	5825	18.62	19.02	-	-	21.83	30.00		
802.11ac VHT40	27M	38	5190	13.65	13.57	-	-	16.62	24.00
		46	5230	18.62	18.85	-	-	21.75	24.00
		54	5270	18.54	18.83	-	-	21.70	24.00
		62	5310	14.91	15.04	-	-	17.99	24.00
		102	5510	14.25	14.32	-	-	17.30	24.00
		110	5550	19.51	19.70	-	-	22.62	24.00
		134	5670	16.85	17.05	-	-	19.96	24.00
		142	5710	18.71	18.72	-	-	21.73	24.00
		142	5710	6.57	6.60	-	-	9.60	30.00
		151	5755	19.17	19.46	-	-	22.33	30.00
159	5795	18.78	19.18	-	-	21.99	30.00		
802.11ac VHT80	58.6M	42	5210	11.71	11.63	-	-	14.68	24.00
		58	5290	12.93	13.02	-	-	15.99	24.00
		106	5530	12.92	12.97	-	-	15.96	24.00
		138	5690	18.93	19.19	-	-	22.07	24.00
		138	5690	4.10	4.30	-	-	7.21	30.00
		155	5775	19.08	19.23	-	-	22.17	30.00

Maximum Conducted Output Power Measurement												
Mode	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit	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	dBm	dBm
802.11a	6M	52	5260	17.49	17.41	-	-	20.46	23.20	2.77	23.23	29.20
		56	5280	17.36	17.10	-	-	20.24	23.20	2.77	23.01	29.20
		64	5320	16.58	16.16	-	-	19.39	23.20	2.77	22.16	29.20
		100	5500	14.71	14.94	-	-	17.84	23.19	2.90	20.74	29.19
		112	5560	17.63	17.82	-	-	20.74	23.19	2.90	23.64	29.19
		140	5700	15.47	15.66	-	-	18.58	23.19	2.90	21.48	29.19
		144	5720	17.00	17.25	-	-	20.14	22.24	2.90	23.04	28.24
		144	5720	9.46	9.73	-	-	12.61	30.00	2.00	14.61	-
		149	5745	17.63	18.00	-	-	20.83	30.00	2.00	22.83	-
		157	5785	18.38	18.49	-	-	21.45	30.00	2.00	23.45	-
165	5825	19.62	19.78	-	-	22.71	30.00	2.00	24.71	-		
802.11n HT20	13M	52	5260	17.46	17.57	-	-	20.53	23.46	5.30	25.83	29.46
		56	5280	17.17	17.29	-	-	20.24	23.46	5.30	25.54	29.46
		64	5320	16.09	15.46	-	-	18.80	23.46	5.30	24.10	29.46
		100	5500	16.84	16.94	-	-	19.90	23.46	5.27	25.17	25.82
		112	5560	17.41	18.00	-	-	20.73	23.46	5.27	26.00	25.82
		140	5700	13.94	14.41	-	-	17.19	23.46	5.27	22.46	25.82
		144	5720	17.22	17.04	-	-	20.14	22.42	5.27	25.41	28.42
		144	5720	10.13	10.26	-	-	13.21	30.00	4.47	17.68	-
		149	5745	17.60	18.21	-	-	20.93	30.00	4.47	25.40	-
		157	5785	18.21	18.69	-	-	21.47	30.00	4.47	25.94	-
165	5825	18.28	18.65	-	-	21.48	30.00	4.47	25.95	-		
802.11n HT40	27M	54	5270	18.33	18.57	-	-	21.46	24.00	5.30	26.76	30.00
		62	5310	14.52	14.66	-	-	17.60	24.00	5.30	22.90	30.00
		102	5510	13.95	13.96	-	-	16.97	24.00	5.27	22.24	30.00
		110	5550	19.27	19.31	-	-	22.30	24.00	5.27	27.57	30.00
		134	5670	16.64	16.82	-	-	19.74	24.00	5.27	25.01	30.00
		142	5710	17.89	18.16	-	-	21.04	24.00	5.27	26.31	30.00
		142	5710	5.98	6.33	-	-	9.17	30.00	4.47	13.64	-
		151	5755	18.85	19.06	-	-	21.97	30.00	4.47	26.44	-
		159	5795	18.50	18.94	-	-	21.74	30.00	4.47	26.21	-

Mode	Data Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit	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	
802.11ac VHT20	MCS 0	52	5260	17.68	17.80	-	-	20.75	23.46	5.30	26.05	29.46
		56	5280	17.54	17.61	-	-	20.59	23.46	5.30	25.89	29.46
		64	5320	16.38	15.85	-	-	19.13	23.46	5.30	24.43	29.46
		100	5500	17.08	17.23	-	-	20.17	23.46	5.27	25.44	29.46
		112	5560	17.76	18.24	-	-	21.02	23.46	5.27	26.29	29.46
		140	5700	14.34	14.76	-	-	17.57	23.46	5.27	22.84	29.46
		144	5720	17.38	17.40	-	-	20.40	22.42	5.27	25.67	28.42
		144	5720	10.43	10.30	-	-	13.37	30.00	4.47	17.84	-
		149	5745	17.99	18.52	-	-	21.27	30.00	4.47	25.74	-
		157	5785	18.58	18.92	-	-	21.76	30.00	4.47	26.23	-
	165	5825	18.62	19.02	-	-	21.83	30.00	4.47	26.3	-	
802.11ac VHT40	MCS 0	54	5270	18.54	18.83	-	-	21.70	24.00	5.30	27.00	30.00
		62	5310	14.91	15.04	-	-	17.99	24.00	5.30	23.29	30.00
		102	5510	14.25	14.32	-	-	17.30	24.00	5.27	22.57	30.00
		110	5550	19.51	19.70	-	-	22.62	24.00	5.27	27.89	30.00
		134	5670	16.85	17.05	-	-	19.96	24.00	5.27	25.23	30.00
		142	5710	18.71	18.72	-	-	21.73	24.00	5.27	27.00	30.00
		142	5710	6.57	6.60	-	-	9.60	30.00	4.47	14.07	-
		151	5755	19.17	19.46	-	-	22.33	30.00	4.47	26.80	-
	159	5795	18.78	19.18	-	-	21.99	30.00	4.47	26.46	-	
802.11ac VHT80	MCS 0	58	5290	12.93	13.02	-	-	15.99	24.00	5.30	21.29	30.00
		106	5530	12.92	12.97	-	-	15.96	24.00	5.27	21.23	30.00
		138	5690	18.93	19.19	-	-	22.07	24.00	5.27	27.34	30.00
		138	5690	4.10	4.30	-	-	7.21	30.00	4.47	11.68	-
		155	5775	19.08	19.23	-	-	22.17	30.00	4.47	26.64	-

26 dB & 99 % RF Bandwidth Measurement

Mode	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	16.872	16.552	-	-	20.360	19.950	-	-
	40	5200	17.421	16.789	-	-	26.530	23.060	-	-
	48	5240	17.259	16.702	-	-	26.330	20.320	-	-
	52	5260	17.395	16.673	-	-	28.770	20.480	-	-
	56	5280	17.043	16.657	-	-	23.240	20.190	-	-
	64	5320	16.932	16.595	-	-	20.480	20.130	-	-
	100	5500	16.834	16.574	-	-	20.170	20.020	-	-
	112	5560	17.200	16.600	-	-	23.880	20.350	-	-
	140	5700	16.836	16.603	-	-	20.300	20.040	-	-
144	5720	13.423	13.318	-	-	15.310	15.150	-	-	
802.11ac VHT20	36	5180	20.509	17.599	-	-	39.440	20.100	-	-
	40	5200	18.578	17.766	-	-	33.140	21.000	-	-
	48	5240	18.114	17.733	-	-	26.950	20.780	-	-
	52	5260	18.413	17.721	-	-	32.050	20.550	-	-
	56	5280	18.165	17.716	-	-	27.320	20.510	-	-
	64	5320	17.913	17.631	-	-	20.880	20.290	-	-
	100	5500	17.838	17.634	-	-	20.690	20.230	-	-
	112	5560	17.831	17.675	-	-	20.550	20.210	-	-
	140	5700	17.806	17.618	-	-	20.540	20.180	-	-
144	5720	13.964	13.860	-	-	17.570	15.130	-	-	
802.11ac VHT40	38	5190	37.143	36.033	-	-	70.700	40.840	-	-
	46	5230	37.267	36.497	-	-	71.930	50.120	-	-
	54	5270	37.185	36.483	-	-	70.710	44.890	-	-
	62	5310	36.047	36.186	-	-	41.050	40.710	-	-
	102	5510	36.059	36.200	-	-	41.130	40.470	-	-
	110	5550	36.578	36.526	-	-	55.740	47.250	-	-
	134	5670	36.151	36.236	-	-	41.300	40.570	-	-
142	5710	32.997	32.929	-	-	40.420	35.380	-	-	
802.11ac VHT80	42	5210	75.597	75.383	-	-	81.770	80.680	-	-
	58	5290	75.634	75.362	-	-	81.700	80.360	-	-
	106	5530	75.636	75.416	-	-	81.910	80.550	-	-
	138	5690	72.505	72.285	-	-	87.100	77.050	-	-

Band III_6 dB & 99 % RF Bandwidth Measurement

Mode	CH	Freq. (MHz)	99 % Bandwidth				6 dB Bandwidth				6dB Limit For FCC kHz
			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	4.391	4.230	-	-	3131	3170	-	-	≥ 500 kHz
	149	5745	17.029	16.799	-	-	15080	15130	-	-	
	157	5785	17.150	16.894	-	-	15130	15010	-	-	
	165	5825	17.374	17.106	-	-	15050	15040	-	-	
802.11ac VHT20	144	5720	4.778	4.596	-	-	3759	3755	-	-	
	149	5745	18.070	17.789	-	-	15130	15120	-	-	
	157	5785	18.137	17.846	-	-	15140	15130	-	-	
	165	5825	18.168	17.826	-	-	15050	15140	-	-	
802.11ac VHT40	142	5710	6.676	6.215	-	-	3125	3125	-	-	
	151	5755	36.429	36.628	-	-	35130	35120	-	-	
	159	5795	36.476	36.587	-	-	35120	35110	-	-	
802.11ac VHT80	138	5690	15.930	16.362	-	-	3139	3133	-	-	
	155	5775	75.809	75.538	-	-	75130	75040	-	-	

Power Spectral Density Measurement

Mode	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	dB	dBm/MHz	dBm/MHz
802.11a	36	5180	7.075	7.016	-	-	0.091	10.147	11.000
	40	5200	7.579	7.712	-	-	0.091	10.748	11.000
	48	5240	7.494	7.348	-	-	0.091	10.523	11.000
	52	5260	7.568	7.438	-	-	0.091	10.605	11.000
	56	5280	7.437	7.458	-	-	0.091	10.549	11.000
	64	5320	6.657	6.189	-	-	0.091	9.531	11.000
	100	5500	4.783	4.748	-	-	0.091	7.867	11.000
	112	5560	7.464	7.545	-	-	0.091	10.606	11.000
	140	5700	4.917	5.229	-	-	0.091	8.178	11.000
	144	5720	7.449	7.691	-	-	0.091	10.673	11.000
802.11ac VHT20	36	5180	6.032	6.111	-	-	0.129	9.211	11.000
	40	5200	7.336	7.565	-	-	0.129	10.591	11.000
	48	5240	7.656	7.602	-	-	0.129	10.768	11.000
	52	5260	7.525	7.431	-	-	0.129	10.617	11.000
	56	5280	7.471	7.477	-	-	0.129	10.613	11.000
	64	5320	5.815	5.540	-	-	0.129	8.819	11.000
	100	5500	6.466	6.445	-	-	0.129	9.595	11.000
	112	5560	7.426	7.605	-	-	0.129	10.656	11.000
	140	5700	3.778	4.225	-	-	0.129	7.146	11.000
	144	5720	7.546	7.809	-	-	0.129	10.819	11.000
802.11ac VHT40	38	5190	0.684	1.830	-	-	0.254	4.559	11.000
	46	5230	5.529	5.223	-	-	0.254	8.643	11.000
	54	5270	5.792	5.232	-	-	0.254	8.785	11.000
	62	5310	2.143	1.344	-	-	0.254	5.026	11.000
	102	5510	0.710	0.329	-	-	0.254	3.788	11.000
	110	5550	6.111	5.943	-	-	0.254	9.292	11.000
	134	5670	3.209	3.306	-	-	0.254	6.522	11.000
	142	5710	5.391	5.434	-	-	0.254	8.677	11.000
802.11ac VHT80	42	5210	-4.392	-4.585	-	-	0.148	-1.329	11.000
	58	5290	-2.354	-3.085	-	-	0.148	0.454	11.000
	106	5530	-3.607	-3.622	-	-	0.148	-0.456	11.000
	138	5690	2.569	2.795	-	-	0.148	5.842	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			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	dB	dBm/500 kHz	dBm/500 kHz	
802.11a	144	5720	-3.046	4.035	-3.230	3.851	-	-	-	-	0.091	6.954	30.00	PASS
	149	5745	-1.802	5.279	-1.496	5.585	-	-	-	-	0.091	8.445	30.00	PASS
	157	5785	-0.689	6.392	-0.947	6.134	-	-	-	-	0.091	9.275	30.00	PASS
	165	5825	-0.243	6.838	0.285	7.366	-	-	-	-	0.091	10.120	30.00	PASS
802.11ac VHT20	144	5720	-3.066	4.053	-2.968	4.151	-	-	-	-	0.129	7.112	30.00	PASS
	149	5745	-1.707	5.412	-0.851	6.268	-	-	-	-	0.129	8.871	30.00	PASS
	157	5785	-1.433	5.686	-0.638	6.481	-	-	-	-	0.129	9.112	30.00	PASS
	165	5825	-1.091	6.028	-0.273	6.846	-	-	-	-	0.129	9.466	30.00	PASS
802.11ac VHT40	142	5710	-6.358	0.886	-6.202	1.042	-	-	-	-	0.254	3.975	30.00	PASS
	151	5755	-3.758	3.486	-3.436	3.808	-	-	-	-	0.254	6.660	30.00	PASS
	159	5795	-4.220	3.024	-3.499	3.745	-	-	-	-	0.254	6.409	30.00	PASS
802.11ac VHT80	138	5690	-9.105	-1.967	-9.224	-2.086	-	-	-	-	0.148	0.984	30.00	PASS
	155	5775	-6.214	0.924	-6.385	0.753	-	-	-	-	0.148	3.849	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)

For IC

RF power setting in Test SW

Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11a	36	5180	11.5	11.5	-	-	ADB
	40	5200	12	12	-	-	
	48	5240	11.5	11.5	-	-	
802.11n HT20	36	5180	11.5	11.5	-	-	ADB
	40	5200	11.5	11.5	-	-	
	48	5240	11.5	11.5	-	-	
802.11n HT40	38	5190	13	13	-	-	ADB
	46	5230	13	13	-	-	
802.11ac VHT20	36	5180	11.5	11.5	-	-	ADB
	40	5200	11.5	11.5	-	-	
	48	5240	11.5	11.5	-	-	
802.11ac VHT40	38	5190	13	13	-	-	ADB
	46	5230	13	13	-	-	
802.11ac VHT80	42	5210	10.5	10.5	-	-	ADB

Maximum Conducted Output Power Measurement

Mode	Data Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit	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	36	5180	12.56	12.44	-	-	15.51	N/A	2.77	18.28	22.19
		40	5200	13.01	13.12	-	-	16.08	N/A	2.77	18.85	22.19
		48	5240	12.75	12.59	-	-	15.68	N/A	2.77	18.45	22.19
802.11n HT20	13M	36	5180	12.80	12.61	-	-	15.72	N/A	5.30	21.02	22.45
		40	5200	12.55	12.74	-	-	15.66	N/A	5.30	20.96	22.45
		48	5240	12.55	12.69	-	-	15.63	N/A	5.30	20.93	22.45
802.11n HT40	27M	38	5190	13.91	14.08	-	-	17.01	N/A	5.30	22.31	23.00
		46	5230	14.05	14.10	-	-	17.09	N/A	5.30	22.39	23.00
802.11ac VHT20	MCS 0	36	5180	12.85	12.66	-	-	15.77	N/A	5.30	21.07	22.45
		40	5200	12.57	12.79	-	-	15.69	N/A	5.30	20.99	22.45
		48	5240	12.58	12.73	-	-	15.67	N/A	5.30	20.97	22.45
802.11ac VHT40	MCS 0	38	5190	13.98	14.12	-	-	17.06	N/A	5.30	22.36	23.00
		46	5230	14.09	14.17	-	-	17.14	N/A	5.30	22.44	23.00
802.11ac VHT80	MCS 0	42	5210	11.71	11.63	-	-	14.68	N/A	5.30	19.98	23.00

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	16.872	16.552	-	-	20.360	19.950	-	-
	40	5200	17.421	16.789	-	-	26.530	23.060	-	-
	48	5240	17.259	16.702	-	-	26.330	20.320	-	-
802.11ac VHT20	36	5180	20.509	17.599	-	-	39.440	20.100	-	-
	40	5200	18.578	17.766	-	-	33.140	21.000	-	-
	48	5240	18.114	17.733	-	-	26.950	20.780	-	-
802.11ac VHT40	38	5190	37.143	36.033	-	-	70.700	40.840	-	-
	46	5230	37.267	36.497	-	-	71.930	50.120	-	-
802.11ac VHT80	42	5210	75.597	75.383	-	-	81.770	80.680	-	-

Power Spectral Density Measurement

Mode	CH	Frequency (MHz)	Measurement				Duty Factor	Calculated			Limit	EIRP Limit
			Ant-0	Ant-1	Ant-2	Ant-3		Total	Gain	EIRP Total		
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dB	dBm/MHz	dBi		
802.11a	36	5180	1.295	1.009	-	-	0.091	4.256	5.300	9.556	-	10.00
	40	5200	1.327	1.512	-	-	0.091	4.522	5.300	9.822	-	10.00
	48	5240	1.519	1.444	-	-	0.091	4.583	5.300	9.883	-	10.00
802.11ac VHT20	36	5180	1.372	1.089	-	-	0.129	4.372	5.300	9.672	-	10.00
	40	5200	0.983	1.348	-	-	0.129	4.309	5.300	9.609	-	10.00
	48	5240	1.094	1.151	-	-	0.129	4.262	5.300	9.562	-	10.00
802.11ac VHT40	38	5190	-0.361	-0.353	-	-	0.254	2.907	5.300	8.207	-	10.00
	46	5230	-0.294	-0.163	-	-	0.254	3.036	5.300	8.336	-	10.00
802.11ac VHT80	42	5210	-4.392	-4.585	-	-	0.148	-1.329	5.300	3.971	-	10.00

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