

Power Spectral Density

5150-5250MHz

FCC

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	0.45	0.30	0.75	17	Pass
	5200	0.58	0.30	0.88	17	Pass
	5240	0.29	0.30	0.59	17	Pass
802.11ac20	5180	0.37	0.32	0.69	17	Pass
	5200	0.20	0.32	0.52	17	Pass
	5240	0.17	0.32	0.49	17	Pass
802.11ac40	5190	-5.35	0.62	-4.73	17	Pass
	5230	-5.78	0.62	-5.16	17	Pass
802.11ac80	5210	-9.03	1.18	-7.85	17	Pass
802.11ax20_RU_Full	5180	-0.88	0.41	-0.47	17	Pass
	5200	-1.04	0.41	-0.63	17	Pass
	5240	-1.33	0.41	-0.92	17	Pass
802.11ax40_RU_Full	5190	-5.50	0.74	-4.76	17	Pass
	5230	-5.85	0.74	-5.11	17	Pass
802.11ax80_RU_Full	5210	-9.08	1.39	-7.69	17	Pass

IC

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Antenna Gain (dBi/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	0.45	0.30	0.75	4.86	5.61	10	Pass
	5200	0.58	0.30	0.88	4.86	5.74	10	Pass
	5240	0.29	0.30	0.59	4.86	5.45	10	Pass
802.11ac20	5180	0.37	0.32	0.69	4.86	5.55	10	Pass
	5200	0.20	0.32	0.52	4.86	5.38	10	Pass
	5240	0.17	0.32	0.49	4.86	5.35	10	Pass
802.11ac40	5190	-5.35	0.62	-4.73	4.86	0.13	10	Pass
	5230	-5.78	0.62	-5.16	4.86	-0.30	10	Pass
802.11ac80	5210	-9.03	1.18	-7.85	4.86	-2.99	10	Pass
802.11ax20_RU_Full	5180	-0.88	0.41	-0.47	4.86	4.39	10	Pass
	5200	-1.04	0.41	-0.63	4.86	4.23	10	Pass
	5240	-1.33	0.41	-0.92	4.86	3.94	10	Pass
802.11ax40_RU_Full	5190	-5.50	0.74	-4.76	4.86	0.10	10	Pass
	5230	-5.85	0.74	-5.11	4.86	-0.25	10	Pass
802.11ax80_RU_Full	5210	-9.08	1.39	-7.69	4.86	-2.83	10	Pass

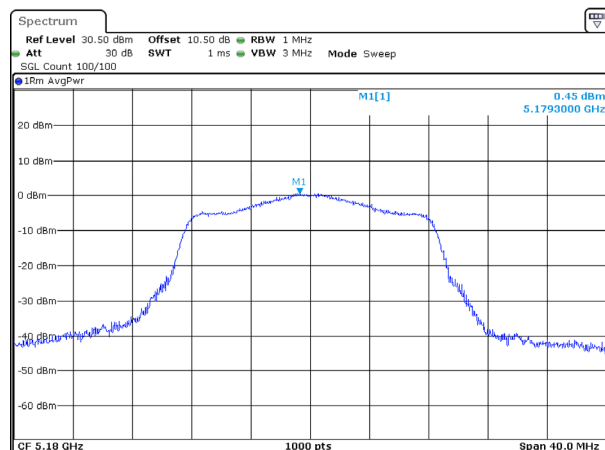
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-1.90	0.30	-1.60	30	Pass
	5785	-2.01	0.30	-1.71	30	Pass
	5825	-2.15	0.30	-1.85	30	Pass
802.11ac20	5745	-2.23	0.32	-1.91	30	Pass
	5785	-2.34	0.32	-2.02	30	Pass
	5825	-2.50	0.32	-2.18	30	Pass
802.11ac40	5755	-8.73	0.62	-8.11	30	Pass
	5795	-8.74	0.62	-8.12	30	Pass
802.11ac80	5775	-12.24	1.18	-11.06	30	Pass
802.11ax20_RU_Full	5745	-4.15	0.41	-3.74	30	Pass
	5785	-3.83	0.41	-3.42	30	Pass
	5825	-3.67	0.41	-3.26	30	Pass
802.11ax40_RU_Full	5755	-8.51	0.74	-7.77	30	Pass
	5795	-8.38	0.74	-7.64	30	Pass
802.11ax80_RU_Full	5775	-11.90	1.39	-10.51	30	Pass

Result = Reading + Duty Cycle Factor

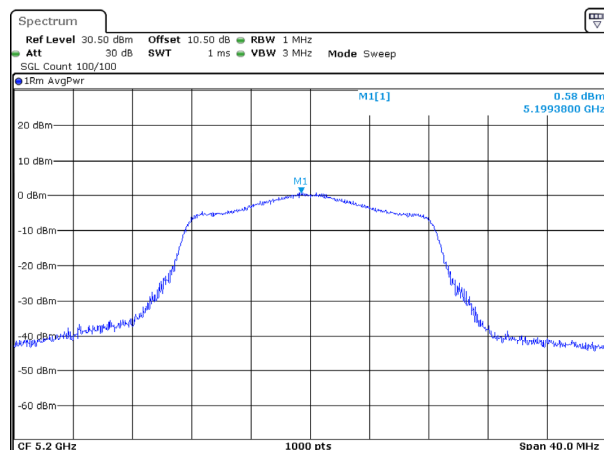
5150-5250MHz

802.11a_5180MHz



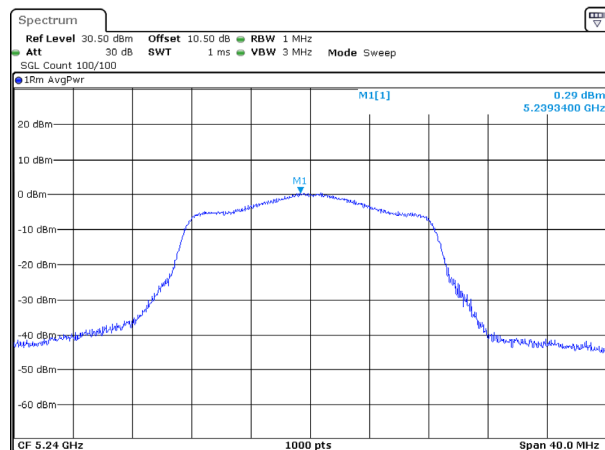
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802.11a_5200MHz



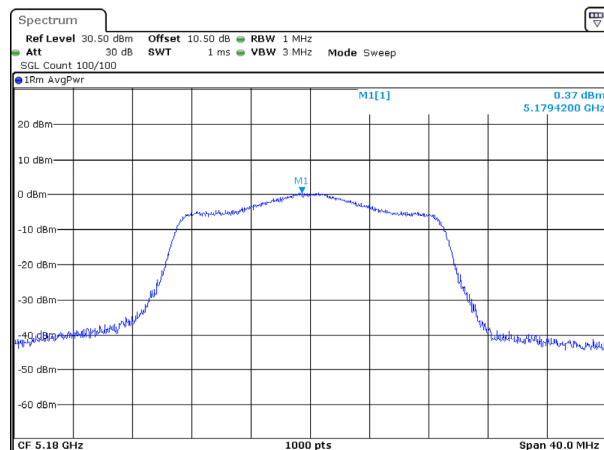
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802.11a_5240MHz



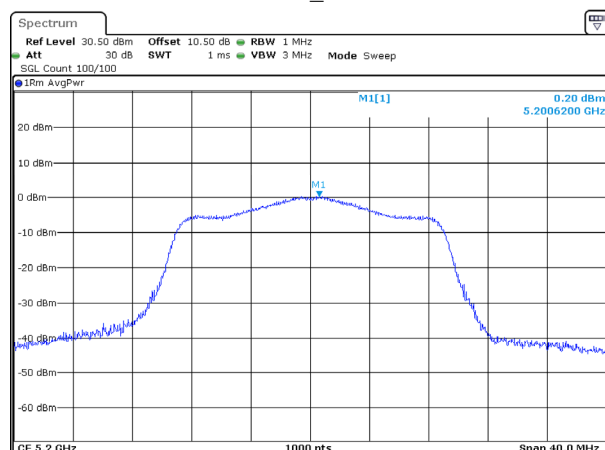
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802.11ac20_5180MHz



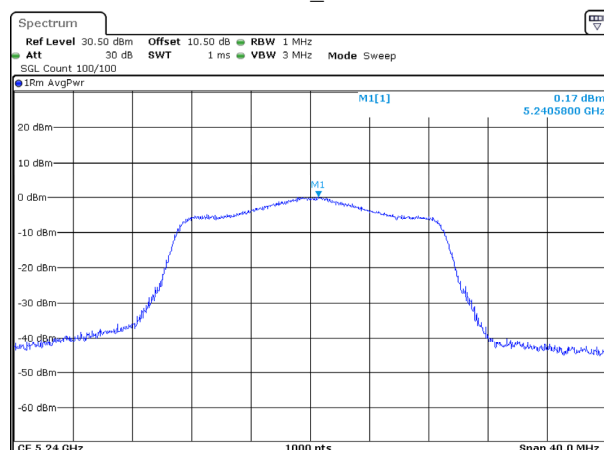
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802.11ac20_5200MHz



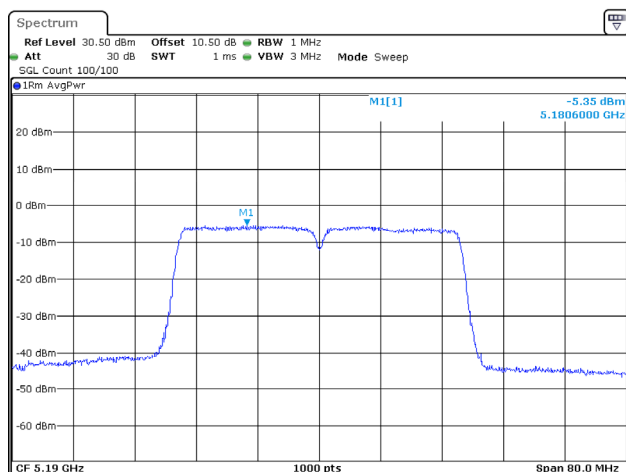
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802.11ac20_5240MHz



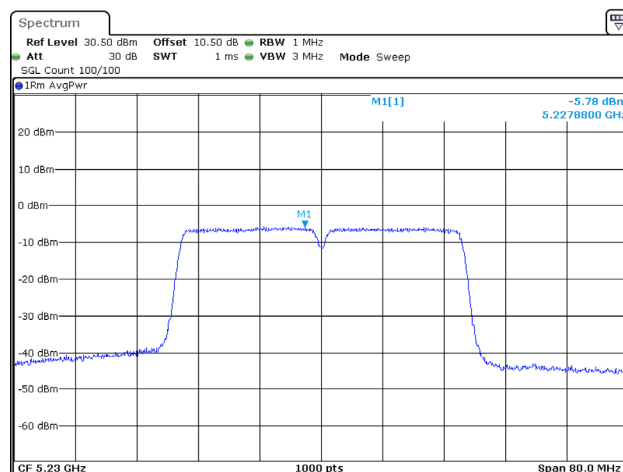
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802.11ac40_5190MHz



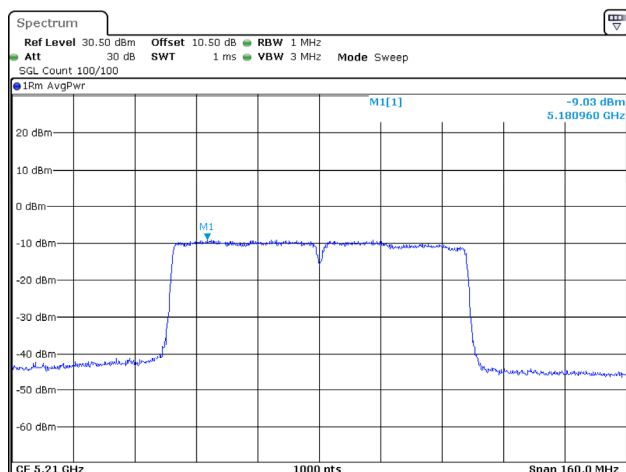
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802.11ac40_5230MHz



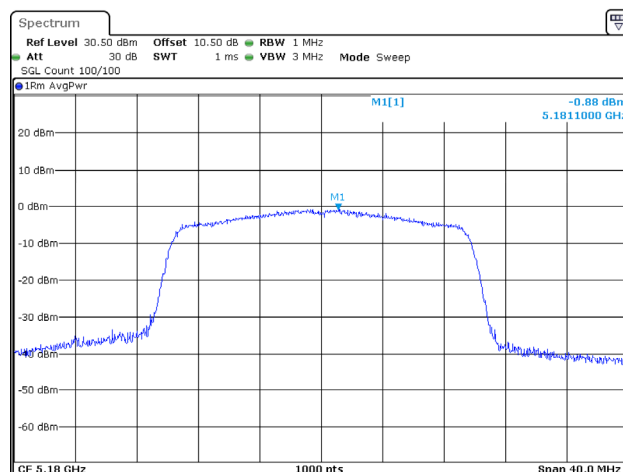
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802.11ac80_5210MHz



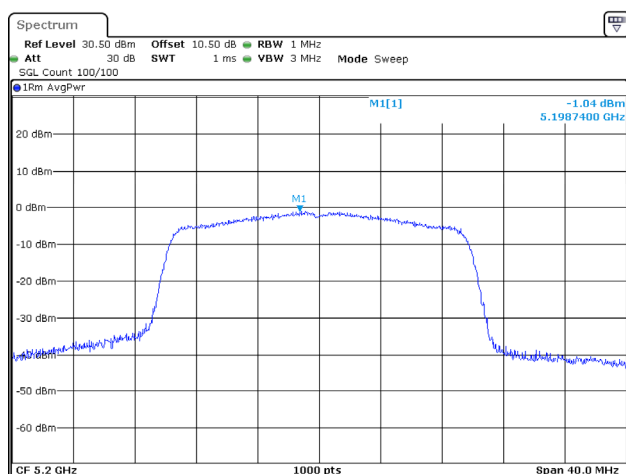
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802.11ax20_5180MHz_RU_Full



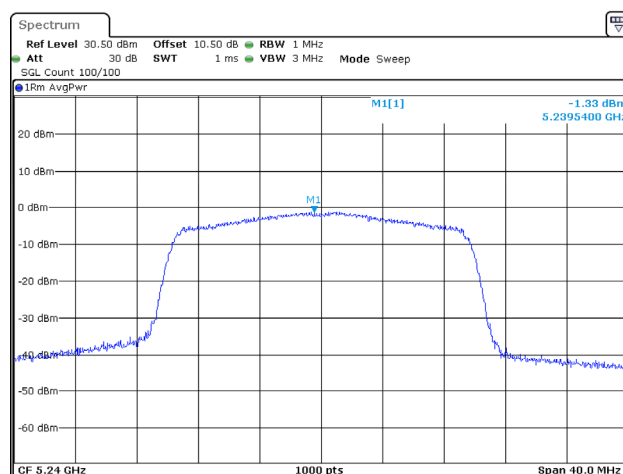
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802.11ax20_5200MHz_RU_Full



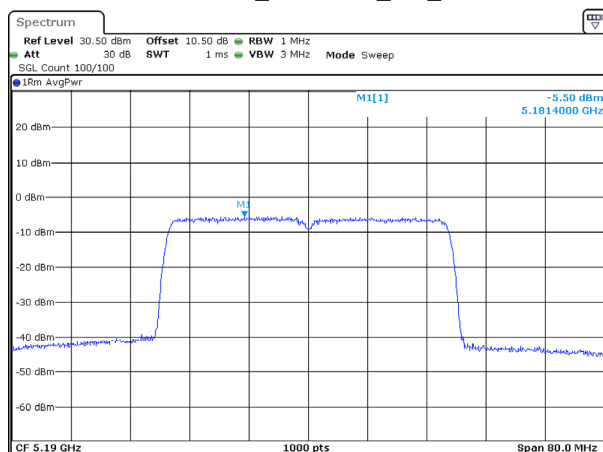
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802.11ax20_5240MHz_RU_Full



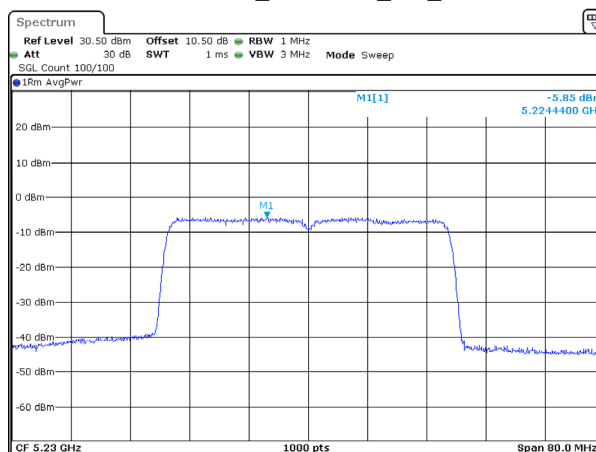
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802.11ax40_5190MHz_RU_Full



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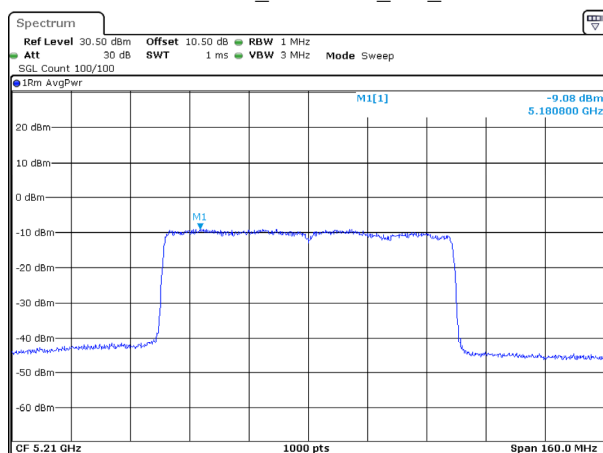
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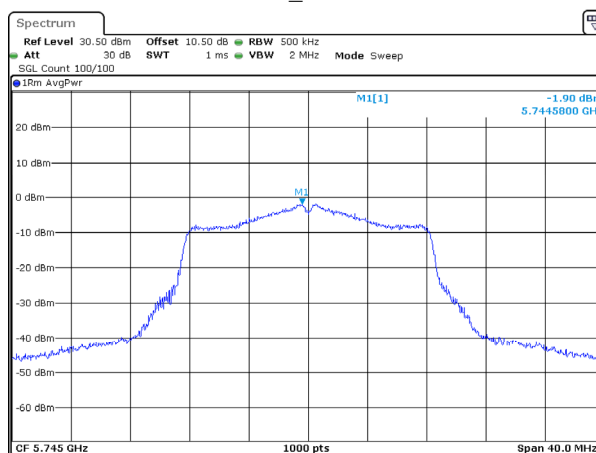
5725-5850MHz

802.11ax80_5210MHz_RU_Full



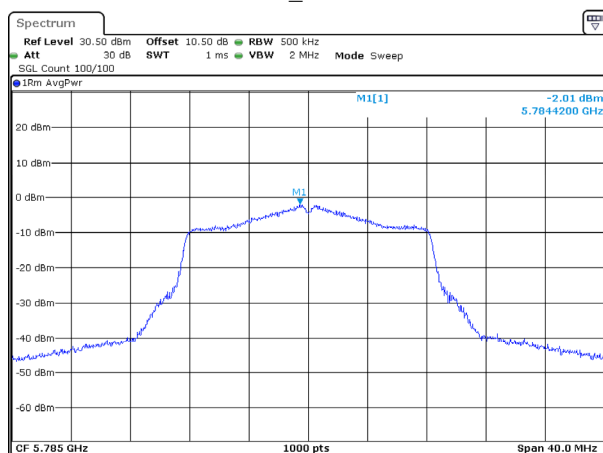
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802.11a_5745MHz



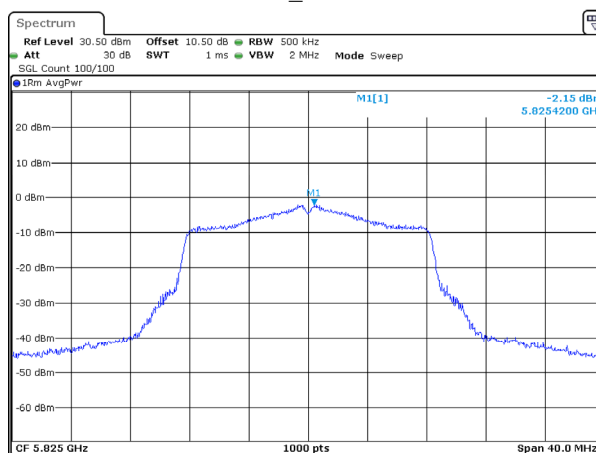
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802.11a_5785MHz



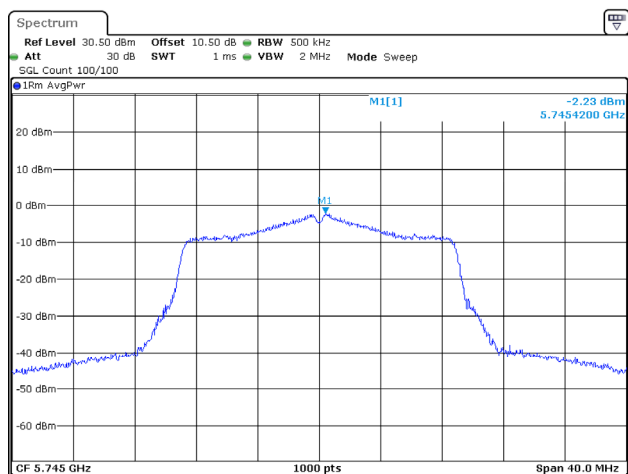
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802.11a_5825MHz



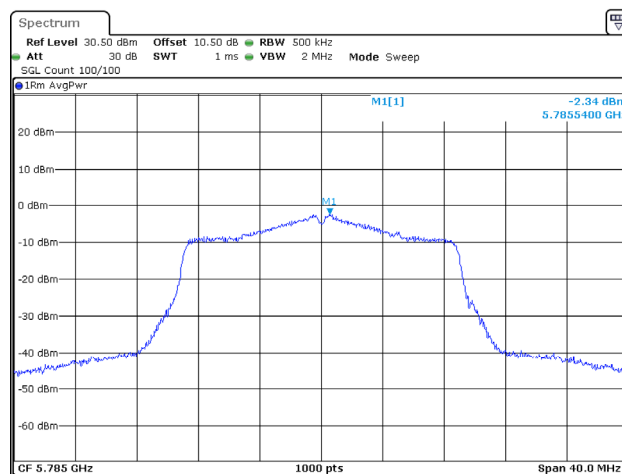
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802.11ac20_5745MHz



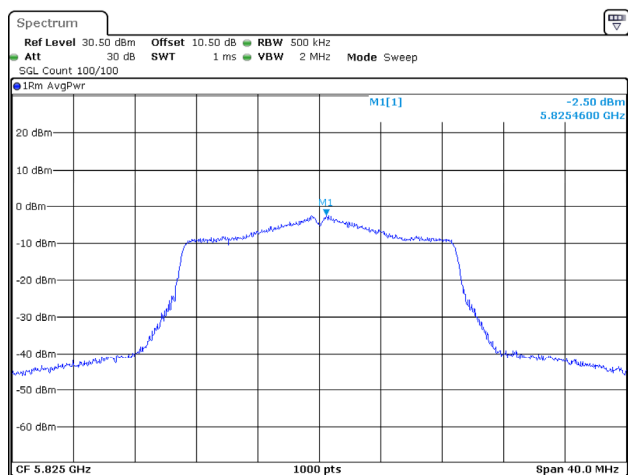
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802.11ac20_5785MHz



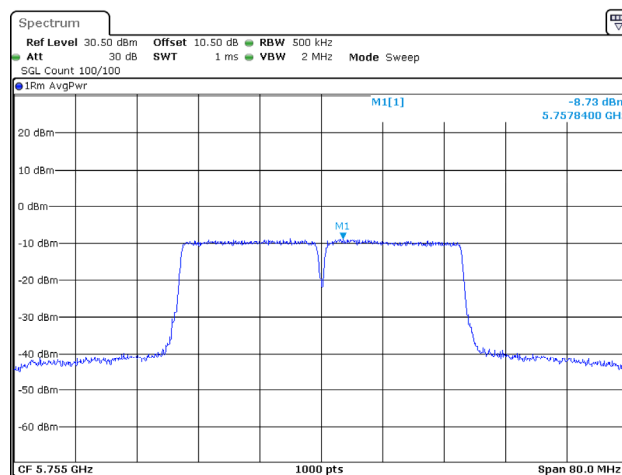
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802.11ac20_5825MHz



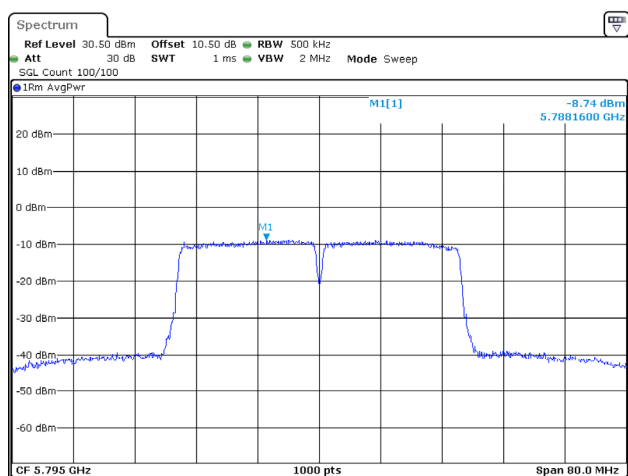
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802.11ac40_5755MHz



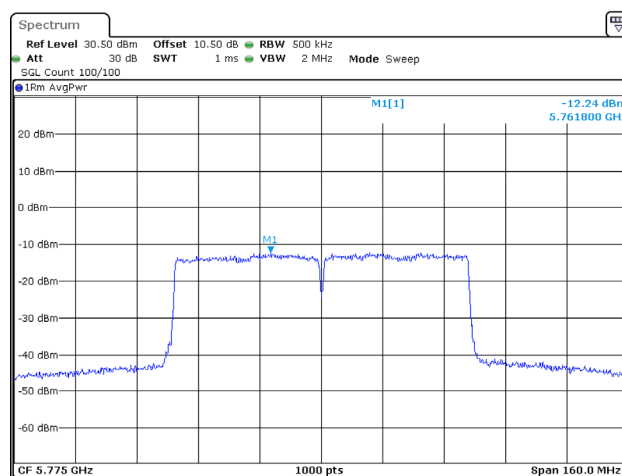
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802.11ac40_5795MHz



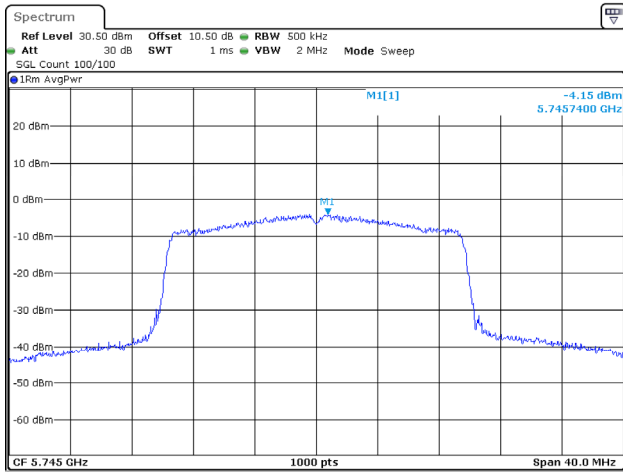
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802.11ac80_5775MHz



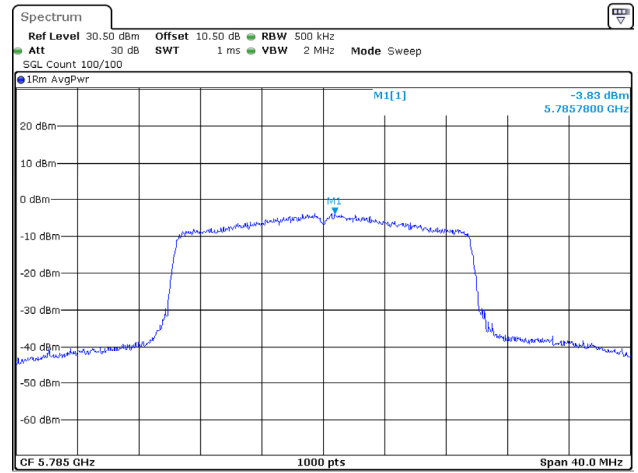
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802.11ax20_5745MHz_RU_Full



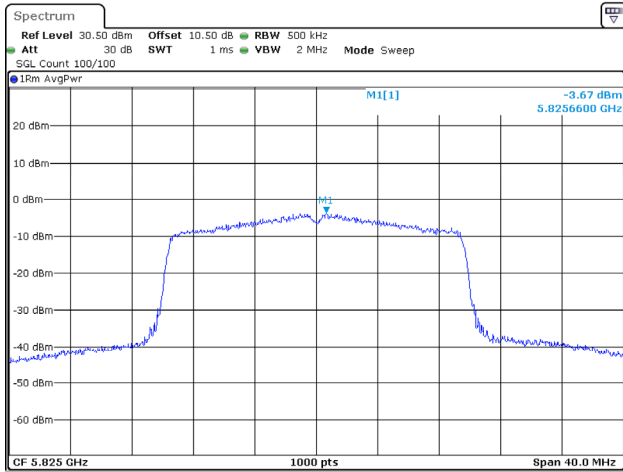
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802.11ax20_5785MHz_RU_Full



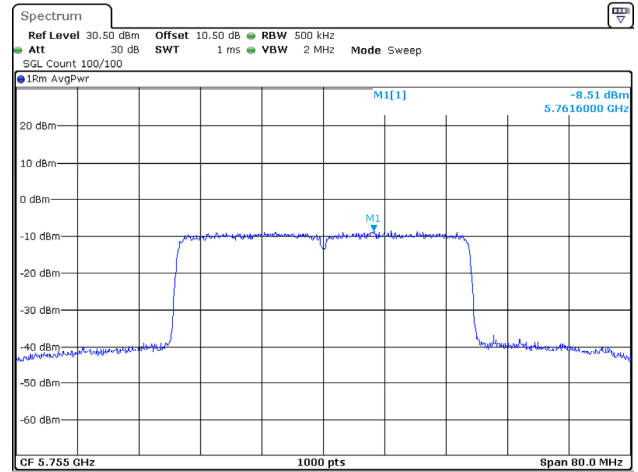
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802.11ax20_5825MHz_RU_Full



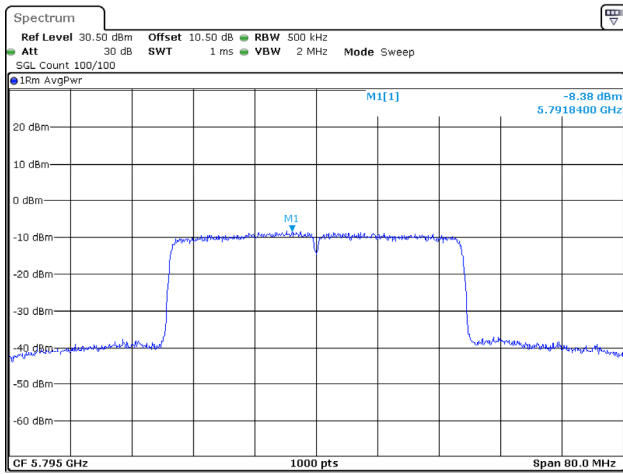
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802.11ax40_5755MHz_RU_Full



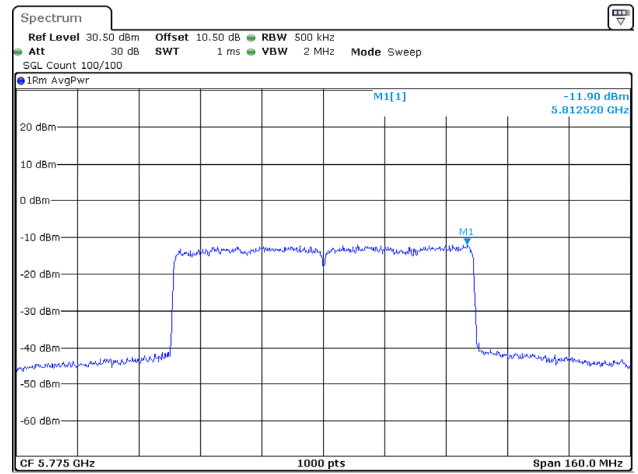
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802.11ax40_5795MHz_RU_Full



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802.11ax80_5775MHz_RU_Full



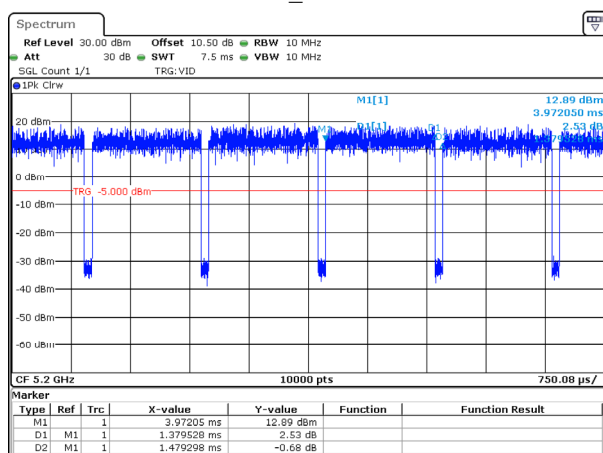
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Duty Cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.380	1.479	93.31	0.30	725	1
802.11ac20	5200	1.304	1.403	92.94	0.32	767	1
802.11ac40	5190	0.655	0.755	86.75	0.62	1527	2
802.11ac80	5210	0.323	0.424	76.18	1.18	3096	5
802.11ax20_RU_Full	5200	1.015	1.115	91.03	0.41	985	1
802.11ax40_RU_Full	5190	0.540	0.640	84.38	0.74	1852	2
802.11ax80_RU_Full	5210	0.265	0.365	72.60	1.39	3774	5

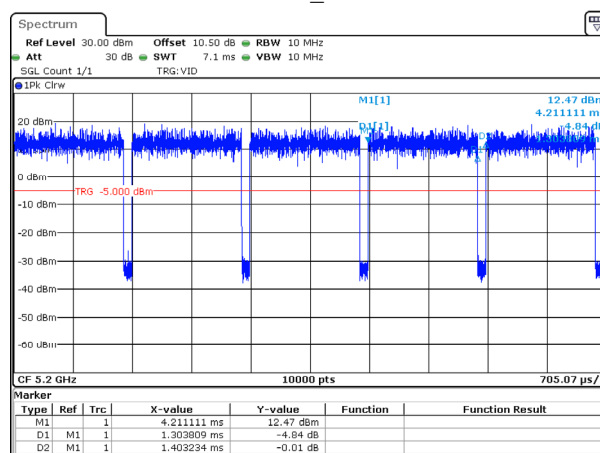
$$\text{Duty Cycle} = \text{Ton}/(\text{Ton}+\text{Toff}) \times 100\%$$

802.11a_5200MHz



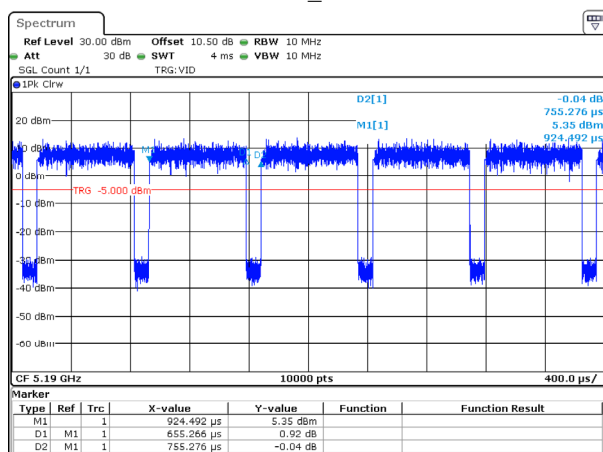
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802.11ac20_5200MHz



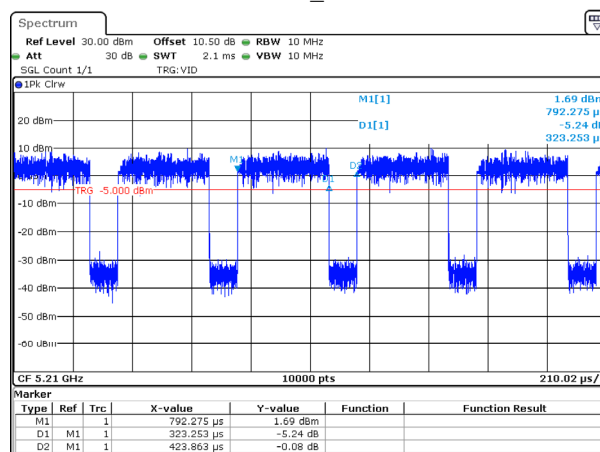
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802.11ac40_5190MHz



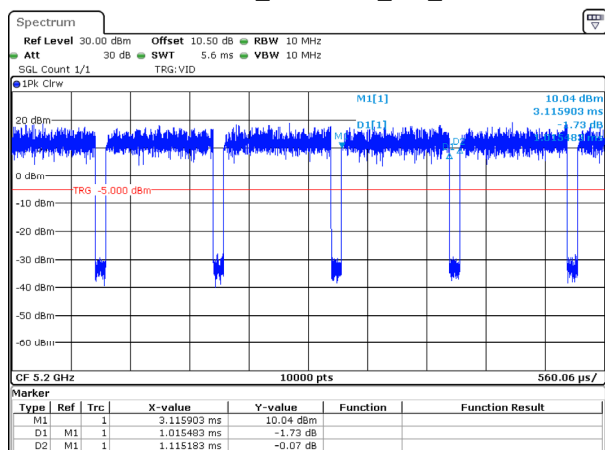
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802.11ac80_5210MHz



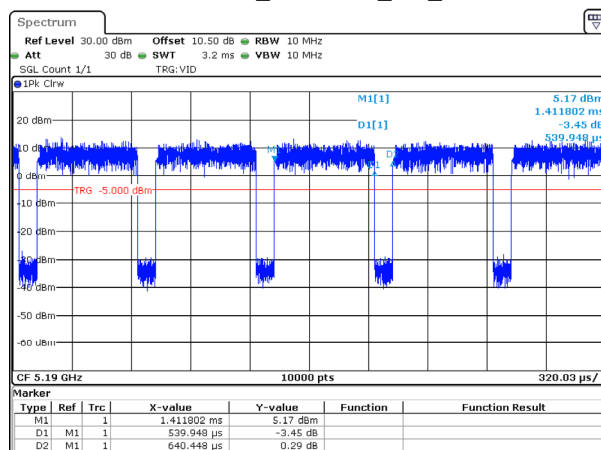
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802.11ax20_5200MHz_RU_Full



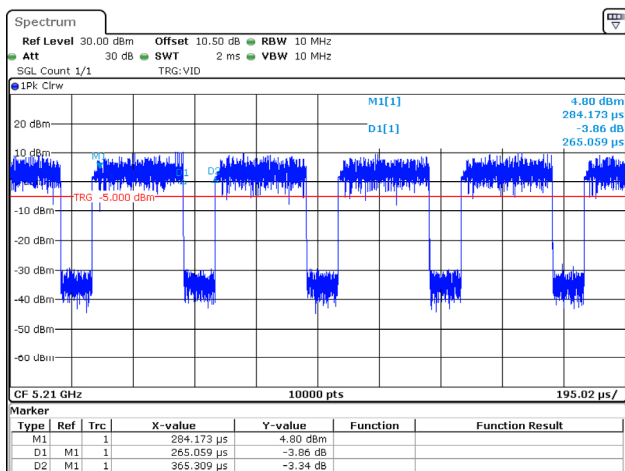
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802.11ax40_5190MHz_RU_Full



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Date: 23.MAY.2025 15:00:47

802.11ax80_5210MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 15:01:26

Frequency Stability

5150-5250MHz

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11a	-20	138	5171.881	5150.0000	5248.191	5250.0000
	20	138	5171.750	5150.0000	5248.228	5250.0000
	50	138	5171.818	5150.0000	5248.250	5250.0000
	-20	120	5171.856	5150.0000	5248.212	5250.0000
	20	120	5171.725	5150.0000	5248.175	5250.0000
	50	120	5171.778	5150.0000	5248.233	5250.0000
	-20	102	5171.841	5150.0000	5248.364	5250.0000
	20	102	5171.911	5150.0000	5248.280	5250.0000
	50	102	5171.781	5150.0000	5248.243	5250.0000
802.11ac20	-20	138	5171.336	5150.0000	5248.795	5250.0000
	20	138	5171.305	5150.0000	5248.796	5250.0000
	50	138	5171.206	5150.0000	5248.790	5250.0000
	-20	120	5171.313	5150.0000	5248.878	5250.0000
	20	120	5171.175	5150.0000	5248.775	5250.0000
	50	120	5171.245	5150.0000	5248.845	5250.0000
	-20	102	5171.307	5150.0000	5248.886	5250.0000
	20	102	5171.345	5150.0000	5248.809	5250.0000
	50	102	5171.185	5150.0000	5248.916	5250.0000
802.11ax20	-20	138	5170.563	5150.0000	5249.667	5250.0000
	20	138	5170.698	5150.0000	5249.568	5250.0000
	50	138	5170.663	5150.0000	5249.629	5250.0000
	-20	120	5170.693	5150.0000	5249.489	5250.0000
	20	120	5170.525	5150.0000	5249.475	5250.0000
	50	120	5170.566	5150.0000	5249.580	5250.0000
	-20	102	5170.564	5150.0000	5249.477	5250.0000
	20	102	5170.581	5150.0000	5249.612	5250.0000
	50	102	5170.675	5150.0000	5249.524	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac40	-20	138	5171.910	5150.0000	5248.518	5250.0000
	20	138	5171.909	5150.0000	5248.451	5250.0000
	50	138	5171.906	5150.0000	5248.385	5250.0000
	-20	120	5171.932	5150.0000	5248.541	5250.0000
	20	120	5171.750	5150.0000	5248.350	5250.0000
	50	120	5171.796	5150.0000	5248.412	5250.0000
	-20	102	5171.927	5150.0000	5248.518	5250.0000
	20	102	5171.915	5150.0000	5248.466	5250.0000
	50	102	5171.792	5150.0000	5248.524	5250.0000
802.11ax40	-20	138	5171.161	5150.0000	5249.022	5250.0000
	20	138	5171.176	5150.0000	5248.864	5250.0000
	50	138	5171.237	5150.0000	5249.046	5250.0000
	-20	120	5171.302	5150.0000	5248.940	5250.0000
	20	120	5171.150	5150.0000	5248.850	5250.0000
	50	120	5171.263	5150.0000	5249.040	5250.0000
	-20	102	5171.343	5150.0000	5248.901	5250.0000
	20	102	5171.222	5150.0000	5248.986	5250.0000
	50	102	5171.300	5150.0000	5248.921	5250.0000
802.11ac80	-20	138	5171.932	5150.0000	5248.066	5250.0000
	20	138	5171.953	5150.0000	5247.976	5250.0000
	50	138	5171.910	5150.0000	5248.058	5250.0000
	-20	120	5171.981	5150.0000	5247.916	5250.0000
	20	120	5171.900	5150.0000	5247.900	5250.0000
	50	120	5171.984	5150.0000	5248.090	5250.0000
	-20	102	5172.099	5150.0000	5247.992	5250.0000
	20	102	5171.994	5150.0000	5247.970	5250.0000
	50	102	5172.008	5150.0000	5248.061	5250.0000
802.11ax80	-20	138	5171.368	5150.0000	5248.592	5250.0000
	20	138	5171.406	5150.0000	5248.526	5250.0000
	50	138	5171.500	5150.0000	5248.528	5250.0000
	-20	120	5171.498	5150.0000	5248.566	5250.0000
	20	120	5171.300	5150.0000	5248.850	5250.0000
	50	120	5171.447	5150.0000	5248.699	5250.0000
	-20	102	5171.425	5150.0000	5248.696	5250.0000
	20	102	5171.418	5150.0000	5248.537	5250.0000
	50	102	5171.378	5150.0000	5248.558	5250.0000

5725-5850MHz

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11a	-20	138	5736.834	5725.0000	5833.397	5850.0000
	20	138	5736.841	5725.0000	5833.346	5850.0000
	50	138	5736.856	5725.0000	5833.313	5850.0000
	-20	120	5736.918	5725.0000	5833.360	5850.0000
	20	120	5736.775	5725.0000	5833.350	5850.0000
	50	120	5736.775	5725.0000	5833.358	5850.0000
	-20	102	5736.786	5725.0000	5833.392	5850.0000
	20	102	5736.904	5725.0000	5833.369	5850.0000
	50	102	5736.902	5725.0000	5833.405	5850.0000
802.11ac20	-20	138	5736.344	5725.0000	5833.861	5850.0000
	20	138	5736.319	5725.0000	5833.966	5850.0000
	50	138	5736.380	5725.0000	5833.972	5850.0000
	-20	120	5736.247	5725.0000	5833.792	5850.0000
	20	120	5736.225	5725.0000	5833.750	5850.0000
	50	120	5736.353	5725.0000	5833.953	5850.0000
	-20	102	5736.233	5725.0000	5833.956	5850.0000
	20	102	5736.393	5725.0000	5833.860	5850.0000
	50	102	5736.242	5725.0000	5833.784	5850.0000
802.11ax20	-20	138	5735.555	5725.0000	5834.612	5850.0000
	20	138	5735.696	5725.0000	5834.575	5850.0000
	50	138	5735.558	5725.0000	5834.551	5850.0000
	-20	120	5735.573	5725.0000	5834.618	5850.0000
	20	120	5735.525	5725.0000	5834.550	5850.0000
	50	120	5735.673	5725.0000	5834.557	5850.0000
	-20	102	5735.621	5725.0000	5834.573	5850.0000
	20	102	5735.618	5725.0000	5834.658	5850.0000
	50	102	5735.609	5725.0000	5834.549	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac40	-20	138	5736.792	5725.0000	5813.494	5850.0000
	20	138	5736.837	5725.0000	5813.470	5850.0000
	50	138	5736.720	5725.0000	5813.401	5850.0000
	-20	120	5736.833	5725.0000	5813.544	5850.0000
	20	120	5736.650	5725.0000	5813.472	5850.0000
	50	120	5736.755	5725.0000	5813.516	5850.0000
	-20	102	5736.724	5725.0000	5813.489	5850.0000
	20	102	5736.712	5725.0000	5813.499	5850.0000
	50	102	5736.653	5725.0000	5813.359	5850.0000
802.11ax40	-20	138	5736.054	5725.0000	5814.126	5850.0000
	20	138	5736.095	5725.0000	5814.004	5850.0000
	50	138	5736.156	5725.0000	5813.992	5850.0000
	-20	120	5736.206	5725.0000	5814.028	5850.0000
	20	120	5736.050	5725.0000	5814.058	5850.0000
	50	120	5736.142	5725.0000	5814.025	5850.0000
	-20	102	5736.111	5725.0000	5814.134	5850.0000
	20	102	5736.078	5725.0000	5814.091	5850.0000
	50	102	5736.068	5725.0000	5814.144	5850.0000
802.11ac80	-20	138	5737.275	5725.0000	5813.383	5850.0000
	20	138	5737.193	5725.0000	5813.359	5850.0000
	50	138	5737.103	5725.0000	5813.412	5850.0000
	-20	120	5737.202	5725.0000	5813.365	5850.0000
	20	120	5737.100	5725.0000	5813.462	5850.0000
	50	120	5737.213	5725.0000	5813.474	5850.0000
	-20	102	5737.198	5725.0000	5813.472	5850.0000
	20	102	5737.195	5725.0000	5813.354	5850.0000
	50	102	5737.267	5725.0000	5813.378	5850.0000
802.11ax80	-20	138	5736.487	5725.0000	5814.024	5850.0000
	20	138	5736.444	5725.0000	5813.910	5850.0000
	50	138	5736.474	5725.0000	5814.050	5850.0000
	-20	120	5736.342	5725.0000	5814.033	5850.0000
	20	120	5736.300	5725.0000	5814.058	5850.0000
	50	120	5736.429	5725.0000	5813.975	5850.0000
	-20	102	5736.464	5725.0000	5814.037	5850.0000
	20	102	5736.421	5725.0000	5813.935	5850.0000
	50	102	5736.345	5725.0000	5813.994	5850.0000