

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	0.65	0.30	0.95	17	Pass
	5200	0.46	0.30	0.76	17	Pass
	5240	0.77	0.30	1.07	17	Pass
802.11ac20	5180	-0.02	0.32	0.30	17	Pass
	5200	0.04	0.32	0.36	17	Pass
	5240	0.45	0.32	0.77	17	Pass
802.11ac40	5190	-3.39	0.62	-2.77	17	Pass
	5230	-3.34	0.62	-2.72	17	Pass
802.11ac80	5210	-6.98	1.18	-5.80	17	Pass
802.11ax20_RU_Full	5180	-0.18	0.41	0.23	17	Pass
	5200	0.32	0.41	0.73	17	Pass
	5240	0.04	0.41	0.45	17	Pass
802.11ax40_RU_Full	5190	-5.64	0.74	-4.90	17	Pass
	5230	-5.37	0.74	-4.63	17	Pass
802.11ax80_RU_Full	5210	-9.71	1.29	-8.42	17	Pass

IC:

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	0.65	0.30	0.95	4.49	5.44	10	Pass
	5200	0.46	0.30	0.76	4.49	5.25	10	Pass
	5240	0.77	0.30	1.07	4.49	5.56	10	Pass
802.11ac20	5180	-0.02	0.32	0.30	4.49	4.79	10	Pass
	5200	0.04	0.32	0.36	4.49	4.85	10	Pass
	5240	0.45	0.32	0.77	4.49	5.26	10	Pass
802.11ac40	5190	-3.39	0.62	-2.77	4.49	1.72	10	Pass
	5230	-3.34	0.62	-2.72	4.49	1.77	10	Pass
802.11ac80	5210	-6.98	1.18	-5.80	4.49	-1.31	10	Pass
802.11ax20_RU_Full	5180	-0.18	0.41	0.23	4.49	4.72	10	Pass
	5200	0.32	0.41	0.73	4.49	5.22	10	Pass
	5240	0.04	0.41	0.45	4.49	4.94	10	Pass
802.11ax40_RU_Full	5190	-5.64	0.74	-4.90	4.49	-0.41	10	Pass
	5230	-5.37	0.74	-4.63	4.49	-0.14	10	Pass
802.11ax80_RU_Full	5210	-9.71	1.29	-8.42	4.49	-3.93	10	Pass

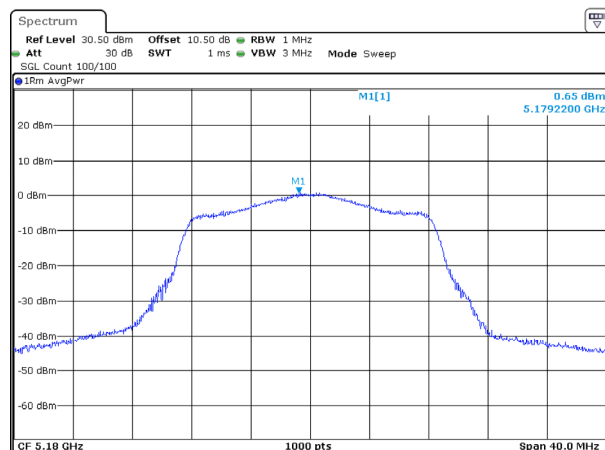
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-0.82	0.30	-0.52	30	Pass
	5785	-0.23	0.30	0.07	30	Pass
	5825	-0.42	0.30	-0.12	30	Pass
802.11ac20	5745	-1.43	0.32	-1.11	30	Pass
	5785	-0.72	0.32	-0.40	30	Pass
	5825	-0.43	0.32	-0.11	30	Pass
802.11ac40	5755	-5.42	0.62	-4.80	30	Pass
	5795	-4.89	0.62	-4.27	30	Pass
802.11ac80	5775	-8.85	1.18	-7.67	30	Pass
802.11ax20_RU_Full	5745	-2.54	0.41	-2.13	30	Pass
802.11ax20_RU_Full	5785	-1.86	0.41	-1.45	30	Pass
	5825	-2.23	0.41	-1.82	30	Pass
802.11ax40_RU_Full	5755	-7.72	0.74	-6.98	30	Pass
	5795	-6.79	0.74	-6.05	30	Pass
802.11ax80_RU_Full	5775	-10.98	1.29	-9.69	30	Pass

Result = Reading + Duty Cycle Factor

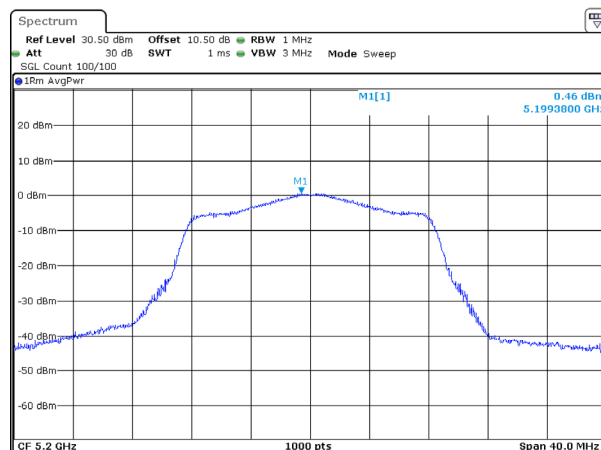
5150-5250MHz

802.11a_5180MHz



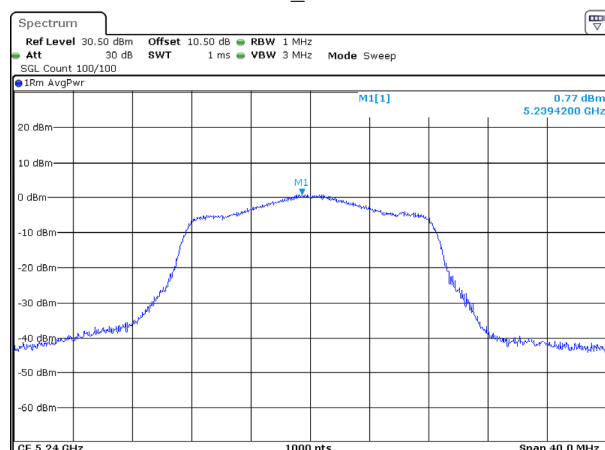
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802.11a_5200MHz



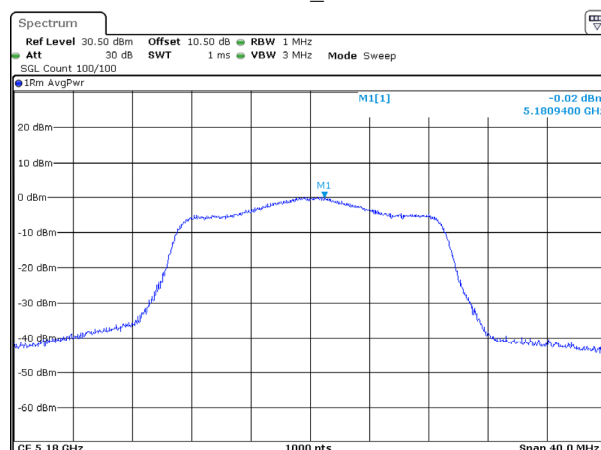
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802.11a_5240MHz



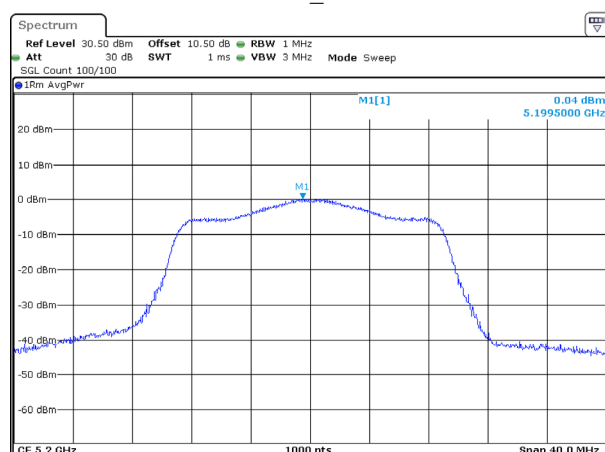
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802.11ac20_5180MHz



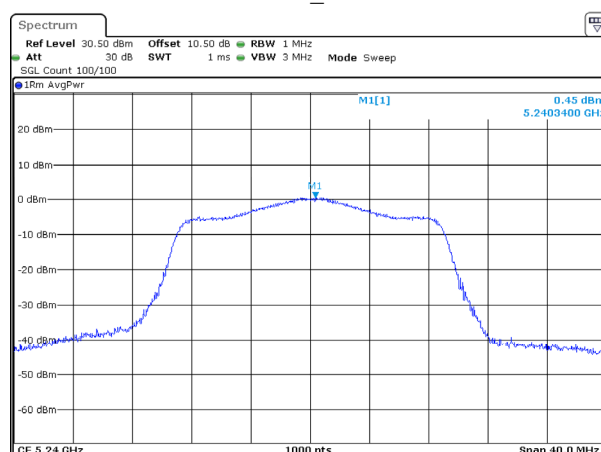
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802.11ac20_5200MHz



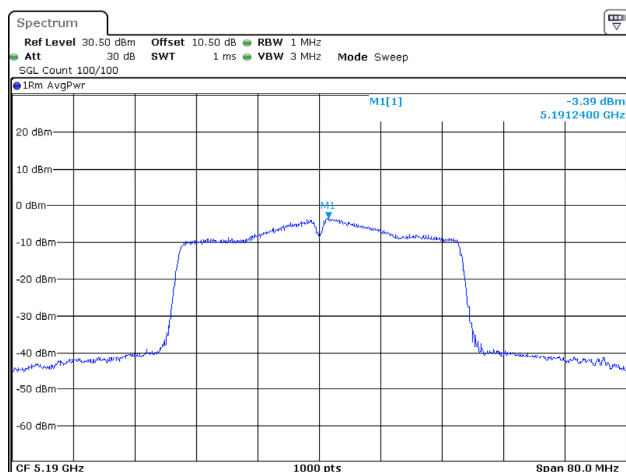
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802.11ac20_5240MHz



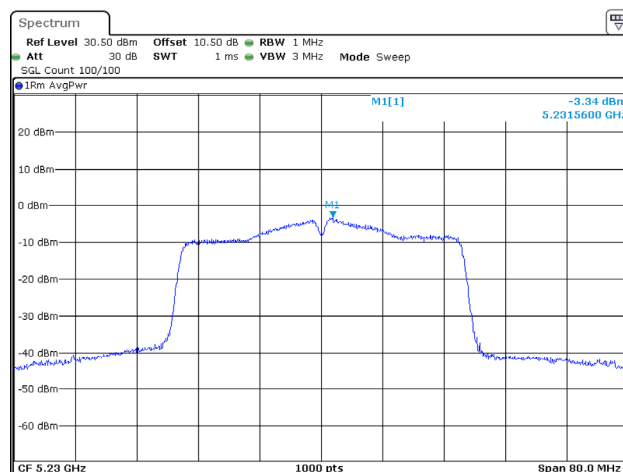
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802.11ac40_5190MHz



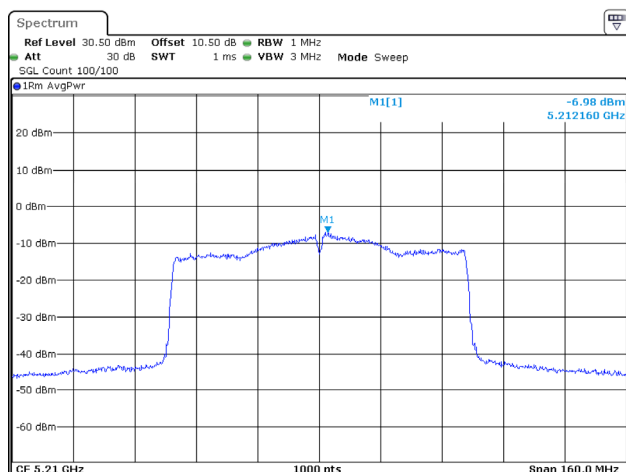
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802.11ac40_5230MHz



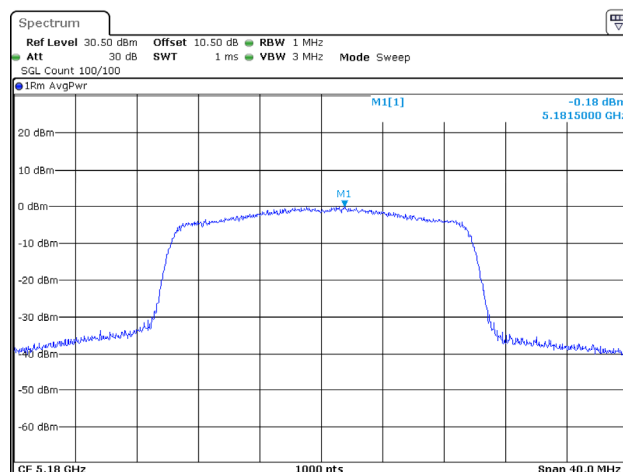
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802.11ac80_5210MHz



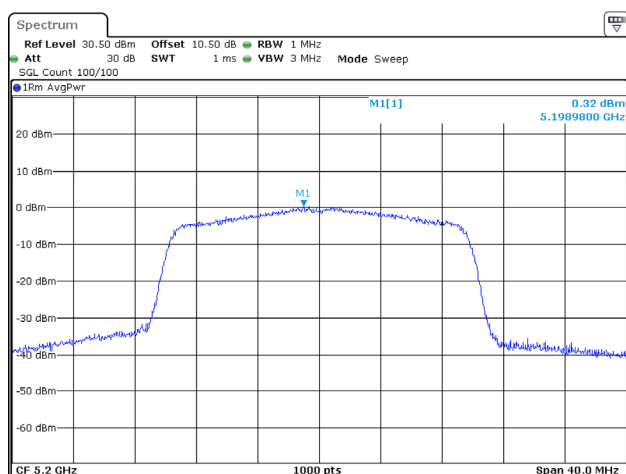
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802.11ax20_5180MHz_RU_Full



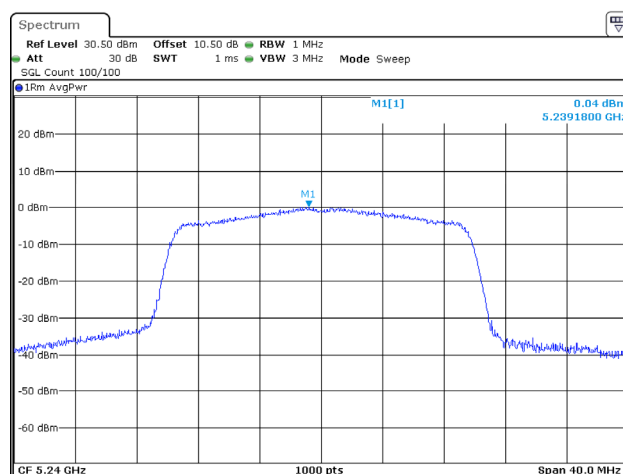
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802.11ax20_5200MHz_RU_Full



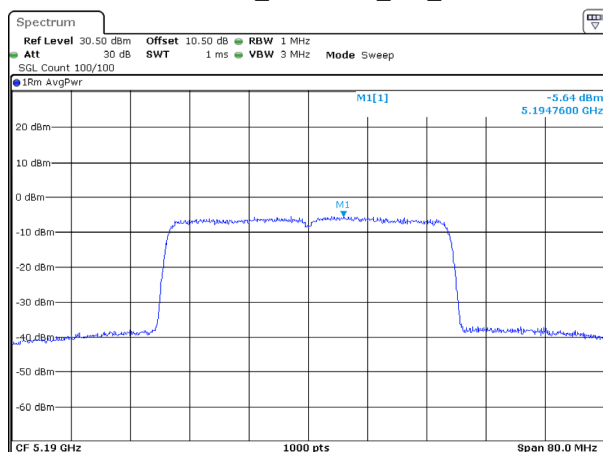
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802.11ax20_5240MHz_RU_Full

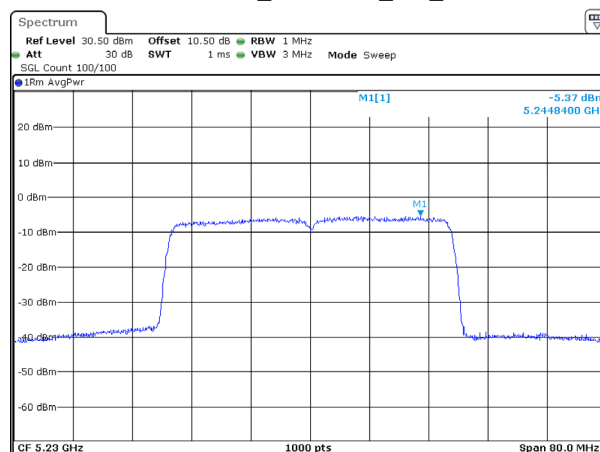


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802.11ax40_5190MHz_RU_Full

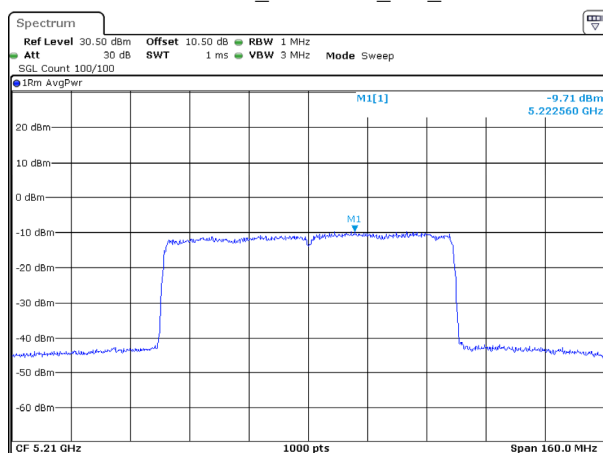


802.11ax40_5230MHz_RU_Full

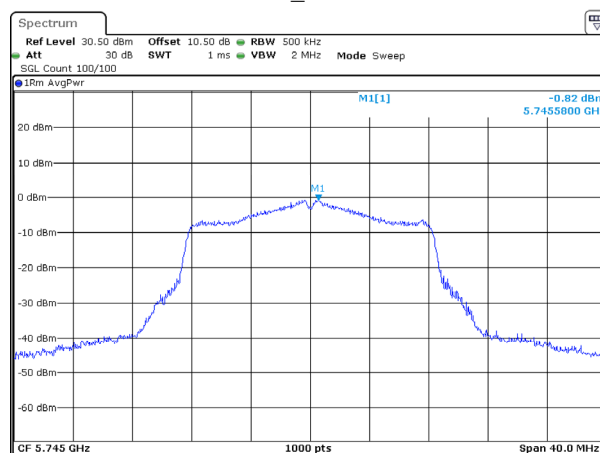


5725-5850MHz

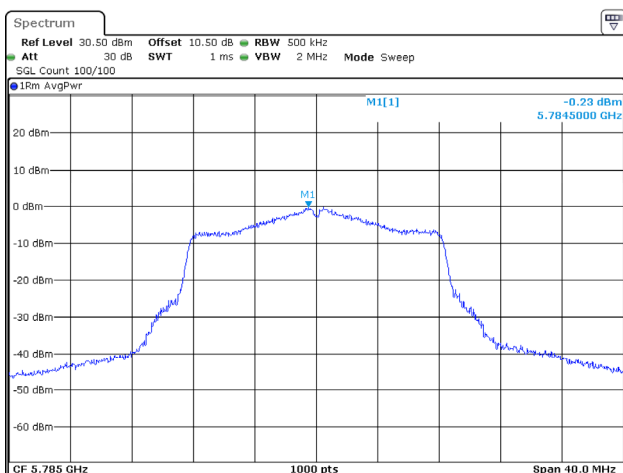
802.11ax80_5210MHz_RU_Full



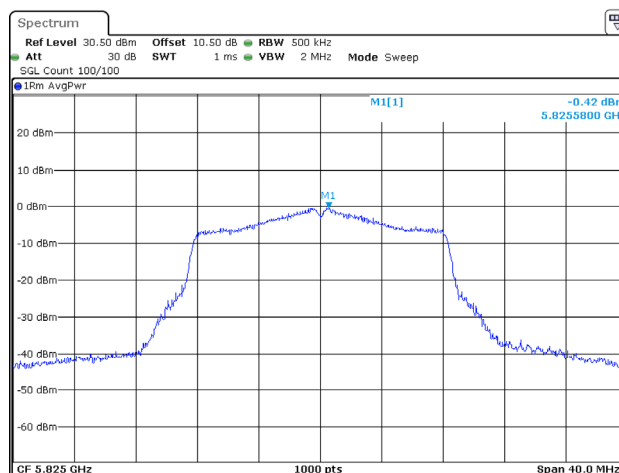
802.11a_5745MHz



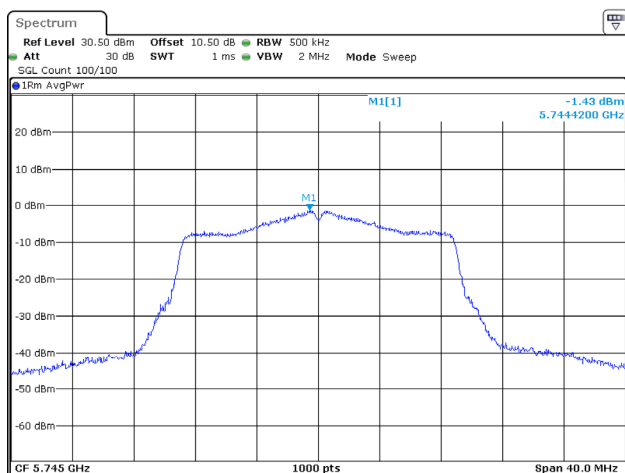
802.11a_5785MHz



802.11a_5825MHz

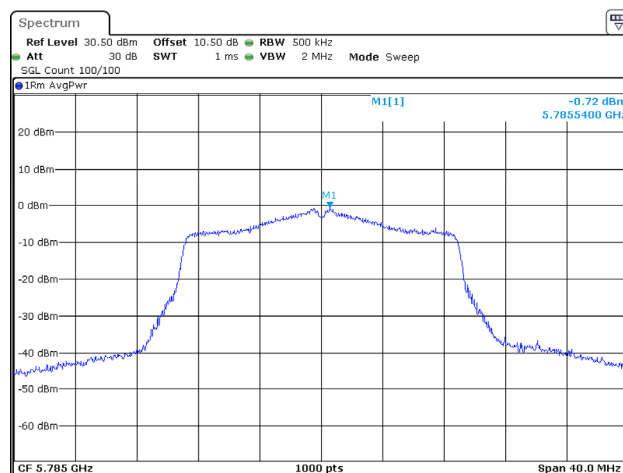


802.11ac20_5745MHz



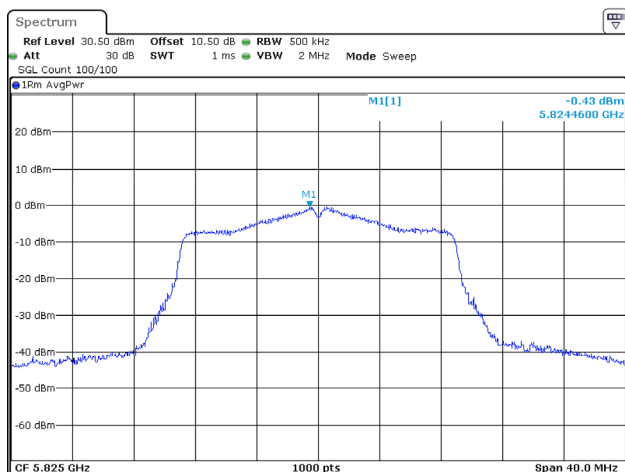
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802.11ac20_5785MHz



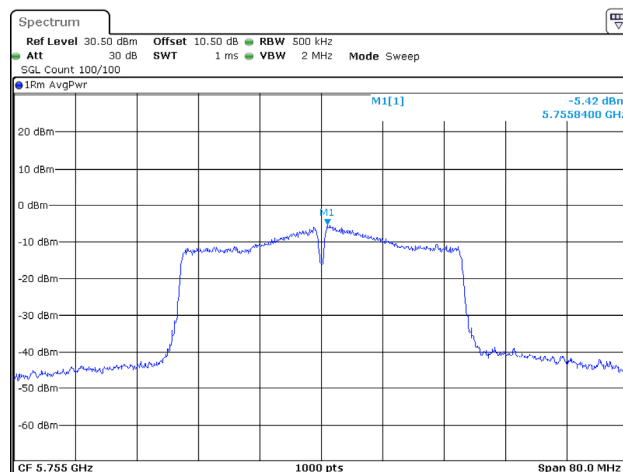
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802.11ac20_5825MHz



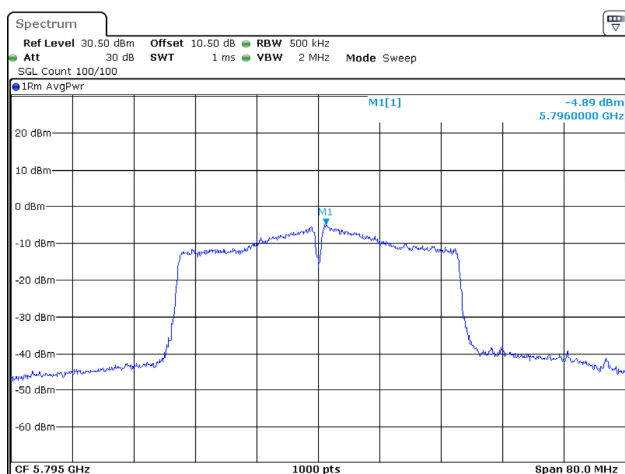
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802.11ac40_5755MHz



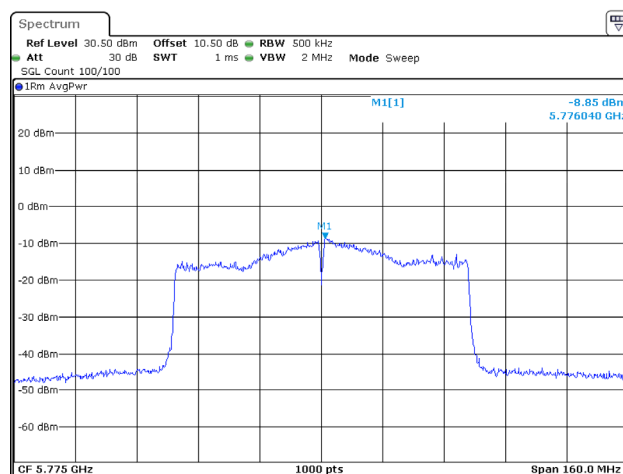
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802.11ac40_5795MHz



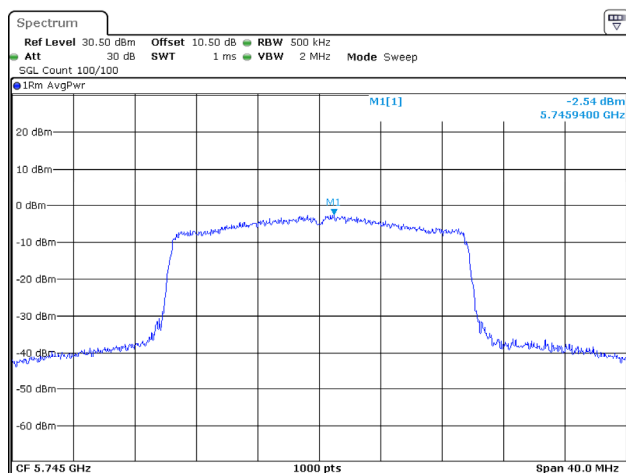
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802.11ac80_5775MHz

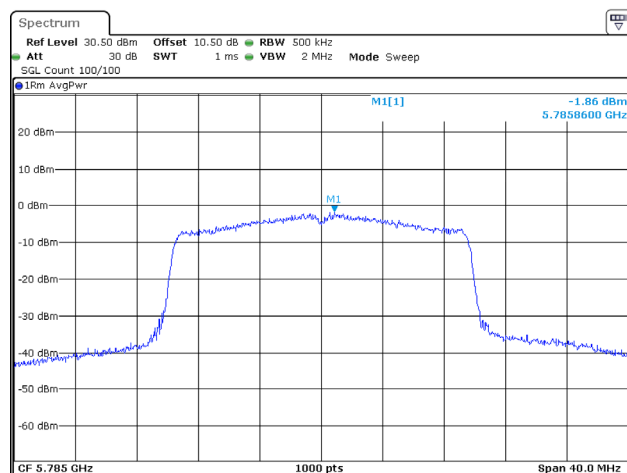


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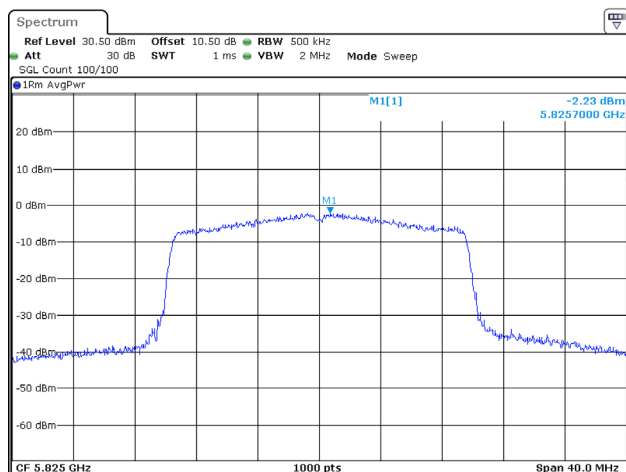
802.11ax20_5745MHz_RU_Full



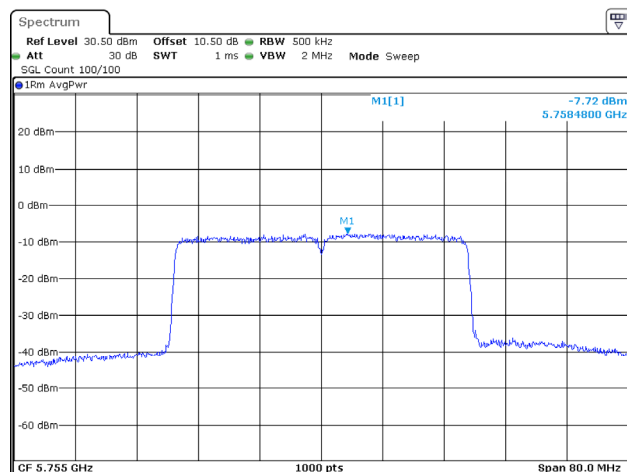
802.11ax20_5785MHz_RU_Full



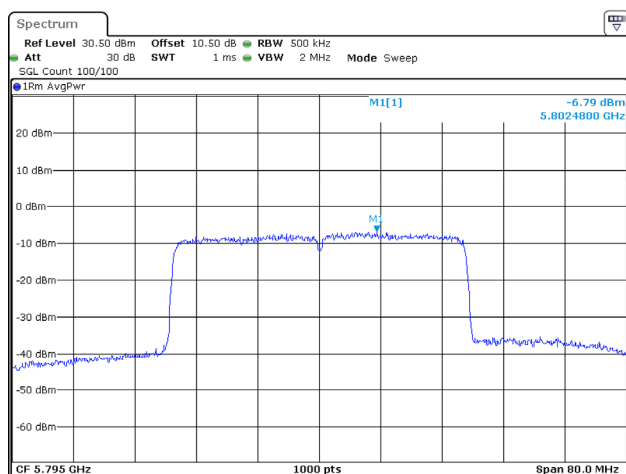
802.11ax20_5825MHz_RU_Full



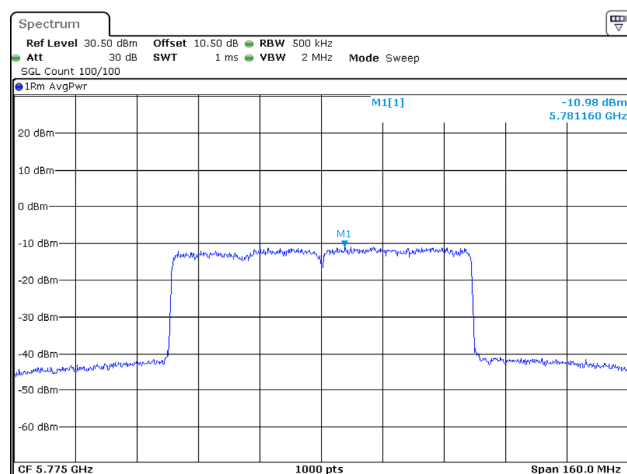
802.11ax40_5755MHz_RU_Full



802.11ax40_5795MHz_RU_Full



802.11ax80_5775MHz_RU_Full

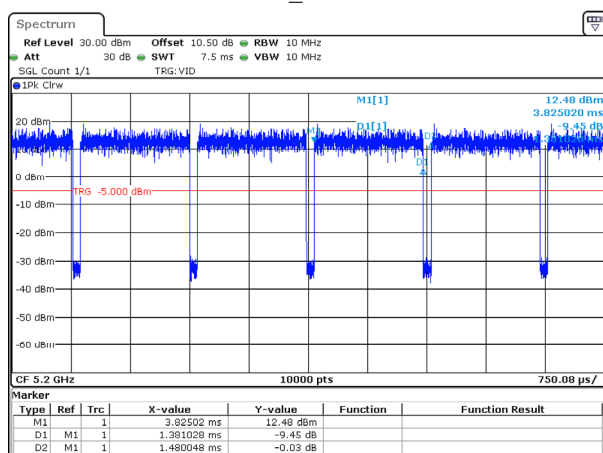


Duty Cycle

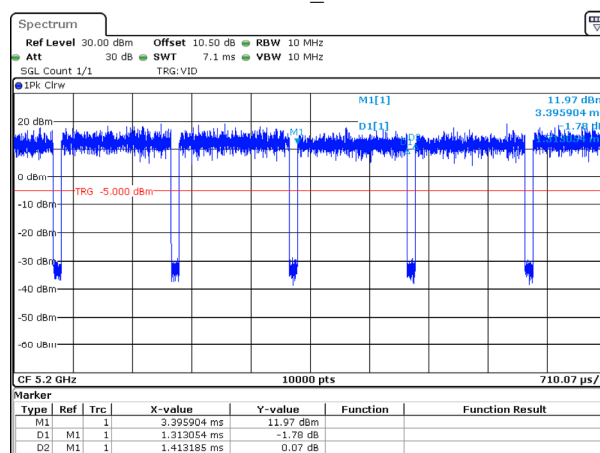
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.381	1.480	93.31	0.30	724	1
802.11ac20	5200	1.313	1.413	92.92	0.32	762	1
802.11ac40	5190	0.655	0.756	86.64	0.62	1527	2
802.11ac80	5210	0.323	0.424	76.18	1.18	3096	5
802.11ax20_RU_Full	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	0.290	0.390	74.36	1.29	3448	5

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

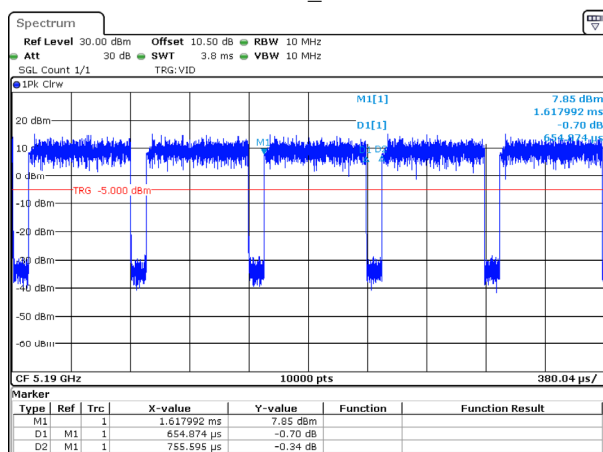
802.11a_5200MHz



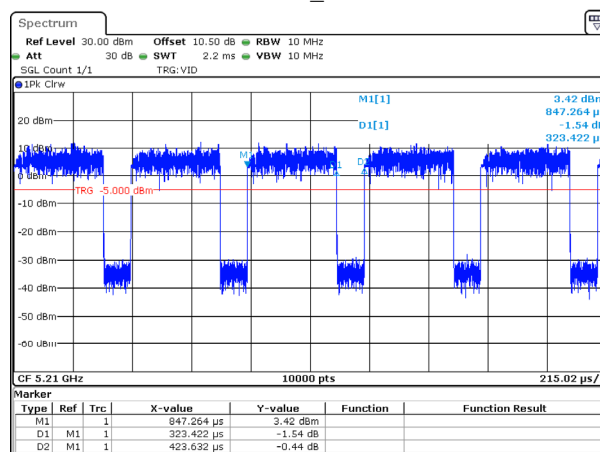
802.11ac20_5200MHz



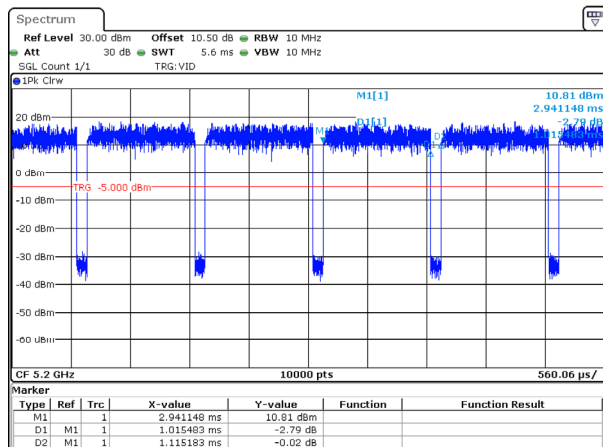
802.11ac40_5190MHz



802.11ac80_5210MHz

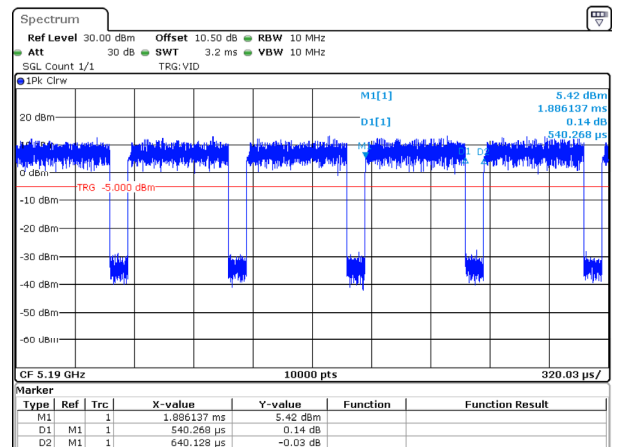


802.11ax20_5200MHz_RU_Full



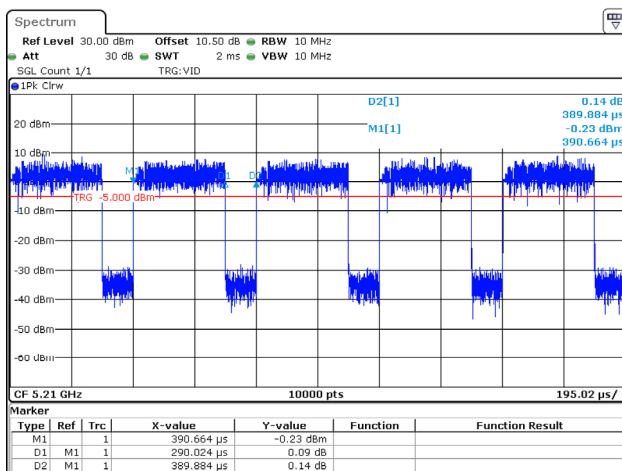
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802.11ax40_5190MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaster Liang
Date: 24.MAY.2025 14:14:43

802.11ax80_5210MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaster Liang
Date: 24.MAY.2025 14:17:03

Frequency Stability

5150-5250MHz

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11a	-20	138	5171.862	5150.0000	5248.371	5250.0000
	20	138	5171.954	5150.0000	5248.301	5250.0000
	50	138	5171.899	5150.0000	5248.261	5250.0000
	-20	120	5171.992	5150.0000	5248.290	5250.0000
	20	120	5171.825	5150.0000	5248.225	5250.0000
	50	120	5171.934	5150.0000	5248.342	5250.0000
	-20	102	5171.830	5150.0000	5248.267	5250.0000
	20	102	5171.897	5150.0000	5248.394	5250.0000
	50	102	5171.828	5150.0000	5248.356	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac20	-20	138	5171.403	5150.0000	5248.930	5250.0000
	20	138	5171.329	5150.0000	5249.009	5250.0000
	50	138	5171.325	5150.0000	5248.979	5250.0000
	-20	120	5171.358	5150.0000	5249.004	5250.0000
	20	120	5171.225	5150.0000	5248.825	5250.0000
	50	120	5171.370	5150.0000	5248.972	5250.0000
	-20	102	5171.312	5150.0000	5248.882	5250.0000
	20	102	5171.413	5150.0000	5249.022	5250.0000
	50	102	5171.270	5150.0000	5248.915	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ax20	-20	138	5170.721	5150.0000	5249.615	5250.0000
	20	138	5170.552	5150.0000	5249.663	5250.0000
	50	138	5170.557	5150.0000	5249.538	5250.0000
	-20	120	5170.599	5150.0000	5249.527	5250.0000
	20	120	5170.525	5150.0000	5249.475	5250.0000
	50	120	5170.651	5150.0000	5249.606	5250.0000
	-20	102	5170.683	5150.0000	5249.672	5250.0000
	20	102	5170.586	5150.0000	5249.640	5250.0000
	50	102	5170.583	5150.0000	5249.591	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac40	-20	138	5172.243	5150.0000	5248.338	5250.0000
	20	138	5172.072	5150.0000	5248.186	5250.0000
	50	138	5172.097	5150.0000	5248.343	5250.0000
	-20	120	5172.215	5150.0000	5248.276	5250.0000
	20	120	5172.050	5150.0000	5248.150	5250.0000
	50	120	5172.217	5150.0000	5248.276	5250.0000
	-20	102	5172.151	5150.0000	5248.281	5250.0000
	20	102	5172.058	5150.0000	5248.222	5250.0000
	50	102	5172.185	5150.0000	5248.314	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ax40	-20	138	5171.379	5150.0000	5249.149	5250.0000
	20	138	5171.382	5150.0000	5248.964	5250.0000
	50	138	5171.309	5150.0000	5248.995	5250.0000
	-20	120	5171.270	5150.0000	5248.999	5250.0000
	20	120	5171.250	5150.0000	5248.950	5250.0000
	50	120	5171.331	5150.0000	5249.070	5250.0000
	-20	102	5171.426	5150.0000	5248.966	5250.0000
	20	102	5171.297	5150.0000	5249.018	5250.0000
	50	102	5171.364	5150.0000	5248.959	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge

Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac80	-20	138	5172.782	5150.0000	5248.203	5250.0000
	20	138	5172.814	5150.0000	5248.208	5250.0000
	50	138	5172.801	5150.0000	5248.109	5250.0000
	-20	120	5172.714	5150.0000	5248.110	5250.0000
	20	120	5172.836	5150.0000	5248.100	5250.0000
	50	120	5172.828	5150.0000	5248.201	5250.0000
	-20	102	5172.766	5150.0000	5248.224	5250.0000
	20	102	5172.859	5150.0000	5248.228	5250.0000
	50	102	5172.785	5150.0000	5248.265	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge

Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ax80	-20	138	5171.756	5150.0000	5248.972	5250.0000
	20	138	5171.768	5150.0000	5249.004	5250.0000
	50	138	5171.894	5150.0000	5249.029	5250.0000
	-20	120	5171.829	5150.0000	5249.067	5250.0000
	20	120	5171.880	5150.0000	5248.900	5250.0000
	50	120	5171.782	5150.0000	5248.941	5250.0000
	-20	102	5171.773	5150.0000	5249.084	5250.0000
	20	102	5171.863	5150.0000	5248.910	5250.0000
	50	102	5171.900	5150.0000	5249.024	5250.0000

5725-5850MHz

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11a	-20	138	5736.837	5725.0000	5833.361	5850.0000
	20	138	5736.936	5725.0000	5833.264	5850.0000
	50	138	5736.902	5725.0000	5833.344	5850.0000
	-20	120	5736.839	5725.0000	5833.405	5850.0000
	20	120	5736.825	5725.0000	5833.225	5850.0000
	50	120	5736.893	5725.0000	5833.411	5850.0000
	-20	102	5736.881	5725.0000	5833.269	5850.0000
	20	102	5737.023	5725.0000	5833.270	5850.0000
	50	102	5736.985	5725.0000	5833.340	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac20	-20	138	5736.395	5725.0000	5833.835	5850.0000
	20	138	5736.240	5725.0000	5834.003	5850.0000
	50	138	5736.418	5725.0000	5833.891	5850.0000
	-20	120	5736.273	5725.0000	5833.831	5850.0000
	20	120	5736.225	5725.0000	5833.825	5850.0000
	50	120	5736.270	5725.0000	5833.960	5850.0000
	-20	102	5736.298	5725.0000	5834.021	5850.0000
	20	102	5736.325	5725.0000	5833.856	5850.0000
	50	102	5736.420	5725.0000	5833.970	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ax20	-20	138	5735.586	5725.0000	5834.666	5850.0000
	20	138	5735.637	5725.0000	5834.642	5850.0000
	50	138	5735.609	5725.0000	5834.583	5850.0000
	-20	120	5735.562	5725.0000	5834.673	5850.0000
	20	120	5735.525	5725.0000	5834.475	5850.0000
	50	120	5735.646	5725.0000	5834.587	5850.0000
	-20	102	5735.646	5725.0000	5834.657	5850.0000
	20	102	5735.566	5725.0000	5834.566	5850.0000
	50	102	5735.697	5725.0000	5834.621	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac40	-20	138	5737.096	5725.0000	5813.154	5850.0000
	20	138	5737.070	5725.0000	5813.160	5850.0000
	50	138	5737.127	5725.0000	5813.254	5850.0000
	-20	120	5737.225	5725.0000	5813.251	5850.0000
	20	120	5737.050	5725.0000	5813.150	5850.0000
	50	120	5737.100	5725.0000	5813.188	5850.0000
	-20	102	5737.121	5725.0000	5813.172	5850.0000
	20	102	5737.109	5725.0000	5813.324	5850.0000
	50	102	5737.153	5725.0000	5813.211	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ax40	-20	138	5736.401	5725.0000	5814.303	5850.0000
	20	138	5736.336	5725.0000	5814.279	5850.0000
	50	138	5736.353	5725.0000	5814.409	5850.0000
	-20	120	5736.261	5725.0000	5814.434	5850.0000
	20	120	5736.250	5725.0000	5814.250	5850.0000
	50	120	5736.362	5725.0000	5814.398	5850.0000
	-20	102	5736.343	5725.0000	5814.437	5850.0000
	20	102	5736.390	5725.0000	5814.332	5850.0000
	50	102	5736.416	5725.0000	5814.316	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac80	-20	138	5737.544	5725.0000	5813.169	5850.0000
	20	138	5737.632	5725.0000	5813.204	5850.0000
	50	138	5737.682	5725.0000	5813.148	5850.0000
	-20	120	5737.508	5725.0000	5813.259	5850.0000
	20	120	5737.500	5725.0000	5813.100	5850.0000
	50	120	5737.531	5725.0000	5813.177	5850.0000
	-20	102	5737.686	5725.0000	5813.149	5850.0000
	20	102	5737.528	5725.0000	5813.270	5850.0000
	50	102	5737.502	5725.0000	5813.271	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ax80	-20	138	5736.556	5725.0000	5814.037	5850.0000
	20	138	5736.616	5725.0000	5813.922	5850.0000
	50	138	5736.680	5725.0000	5813.915	5850.0000
	-20	120	5736.548	5725.0000	5814.027	5850.0000
	20	120	5736.500	5725.0000	5813.900	5850.0000
	50	120	5736.527	5725.0000	5813.994	5850.0000
	-20	102	5736.518	5725.0000	5814.027	5850.0000
	20	102	5736.558	5725.0000	5813.949	5850.0000
	50	102	5736.638	5725.0000	5813.906	5850.0000