

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	3.30	0.30	3.60	17	Pass
	5200	3.48	0.30	3.78	17	Pass
	5240	3.21	0.30	3.51	17	Pass
802.11ac20	5180	3.25	0.32	3.57	17	Pass
	5200	2.97	0.32	3.29	17	Pass
	5240	2.98	0.32	3.3	17	Pass
802.11ac40	5190	-1.72	0.62	-1.1	17	Pass
	5230	-1.49	0.62	-0.87	17	Pass
802.11ac80	5210	-4.69	1.17	-3.52	17	Pass
802.11ax20_RU_Full	5180	2.11	0.41	2.52	17	Pass
	5200	2.23	0.41	2.64	17	Pass
	5240	1.94	0.41	2.35	17	Pass
802.11ax40_RU_Full	5190	-2.97	0.74	-2.23	17	Pass
	5230	-2.73	0.74	-1.99	17	Pass
802.11ax80_RU_Full	5210	-6.41	1.29	-5.12	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	3.30	0.30	3.60	4.49	8.09	10	Pass
	5200	3.48	0.30	3.78	4.49	8.27	10	Pass
	5240	3.21	0.30	3.51	4.49	8.00	10	Pass
802.11ac20	5180	3.25	0.32	3.57	4.49	8.06	10	Pass
	5200	2.97	0.32	3.29	4.49	7.78	10	Pass
	5240	2.98	0.32	3.3	4.49	7.79	10	Pass
802.11ac40	5190	-1.72	0.62	-1.1	4.49	3.39	10	Pass
	5230	-1.49	0.62	-0.87	4.49	3.62	10	Pass
802.11ac80	5210	-4.69	1.17	-3.52	4.49	0.97	10	Pass
802.11ax20_RU_Full	5180	2.11	0.41	2.52	4.49	7.01	10	Pass
	5200	2.23	0.41	2.64	4.49	7.13	10	Pass
	5240	1.94	0.41	2.35	4.49	6.84	10	Pass
802.11ax40_RU_Full	5190	-2.97	0.74	-2.23	4.49	2.26	10	Pass
	5230	-2.73	0.74	-1.99	4.49	2.50	10	Pass
802.11ax80_RU_Full	5210	-6.41	1.29	-5.12	4.49	-0.63	10	Pass

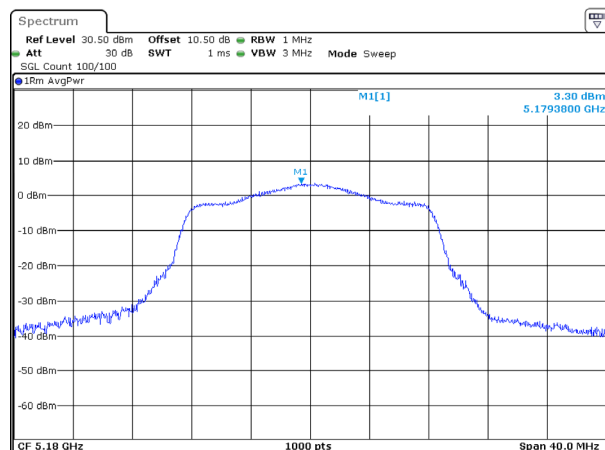
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-0.22	0.30	0.08	30	Pass
	5785	-0.34	0.30	-0.04	30	Pass
	5825	-0.19	0.30	0.11	30	Pass
802.11ac20	5745	-0.42	0.32	-0.1	30	Pass
	5785	-0.46	0.32	-0.14	30	Pass
	5825	-0.47	0.32	-0.15	30	Pass
802.11ac40	5755	-4.79	0.62	-4.17	30	Pass
	5795	-5.07	0.62	-4.45	30	Pass
802.11ac80	5775	-8.63	1.17	-7.46	30	Pass
802.11ax20_RU_Full	5745	-2.49	0.41	-2.08	30	Pass
	5785	-2.05	0.41	-1.64	30	Pass
	5825	-2.02	0.41	-1.61	30	Pass
802.11ax40_RU_Full	5755	-6.76	0.74	-6.02	30	Pass
	5795	-6.60	0.74	-5.86	30	Pass
802.11ax80_RU_Full	5775	-10.04	1.29	-8.75	30	Pass

Result = Reading + Duty Cycle Factor

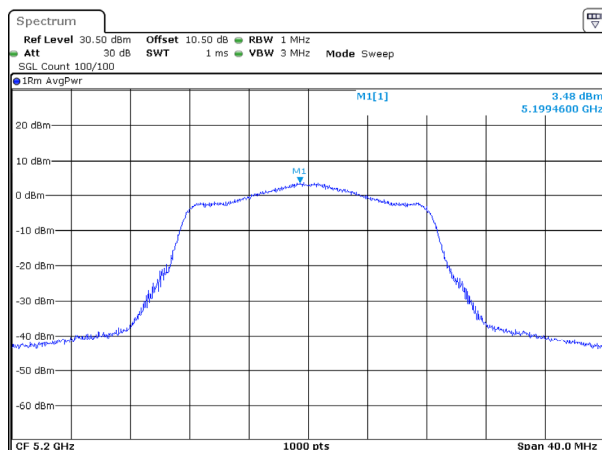
5150-5250MHz

802.11a_5180MHz



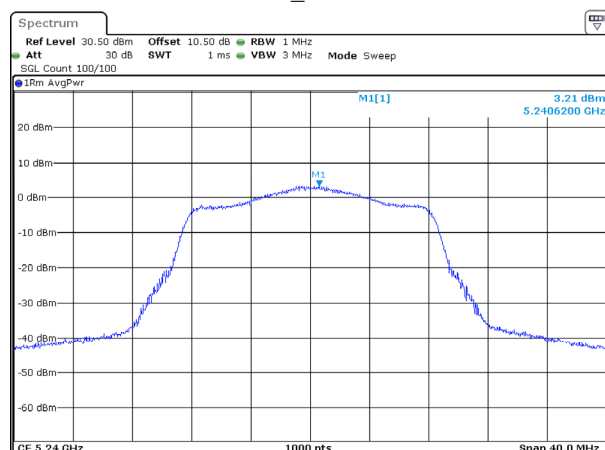
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802.11a_5200MHz



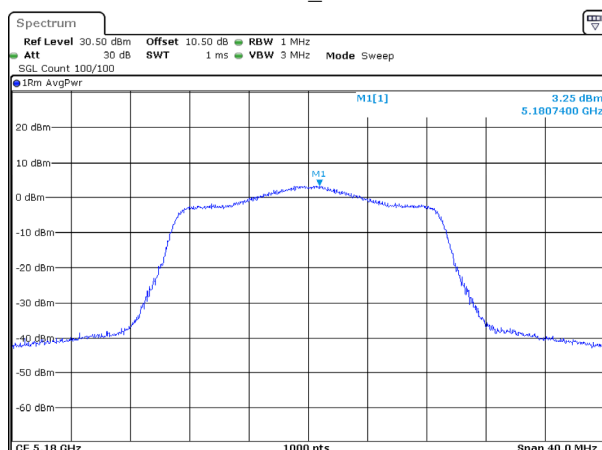
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802.11a_5240MHz



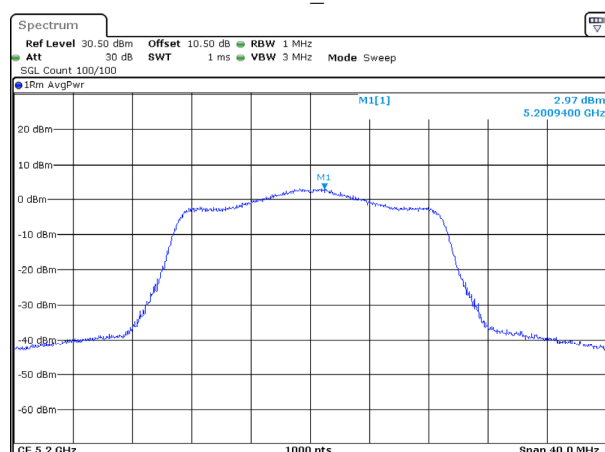
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802.11ac20_5180MHz



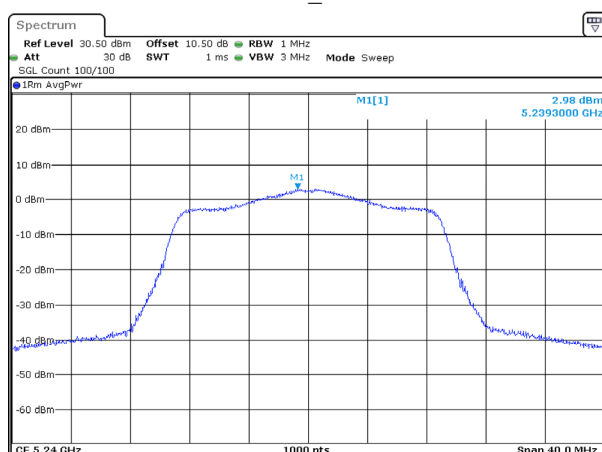
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802.11ac20_5200MHz



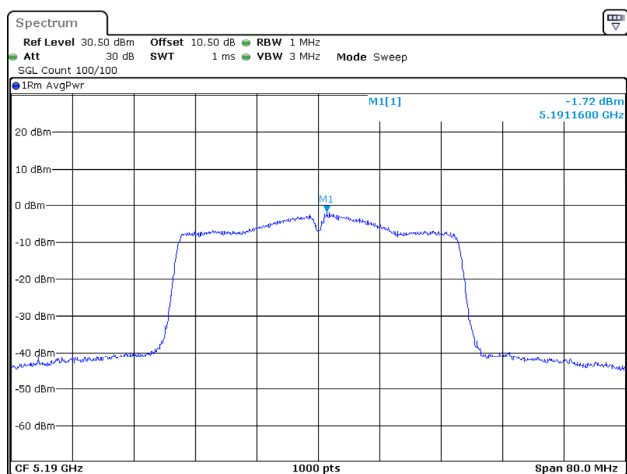
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802.11ac20_5240MHz



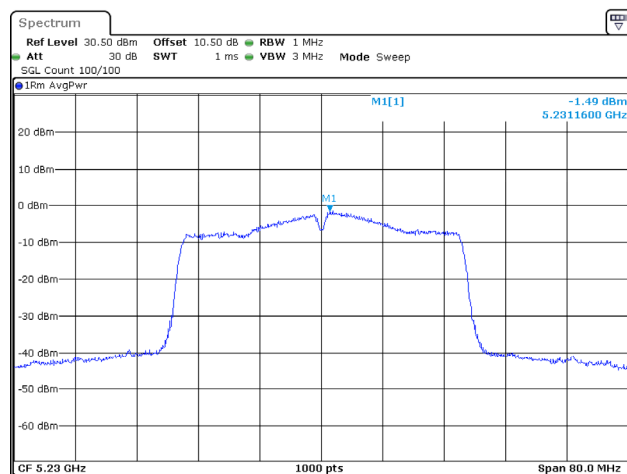
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802.11ac40_5190MHz



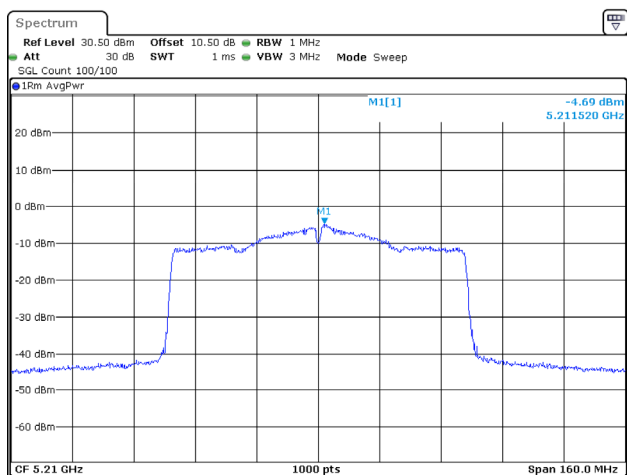
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802.11ac40_5230MHz



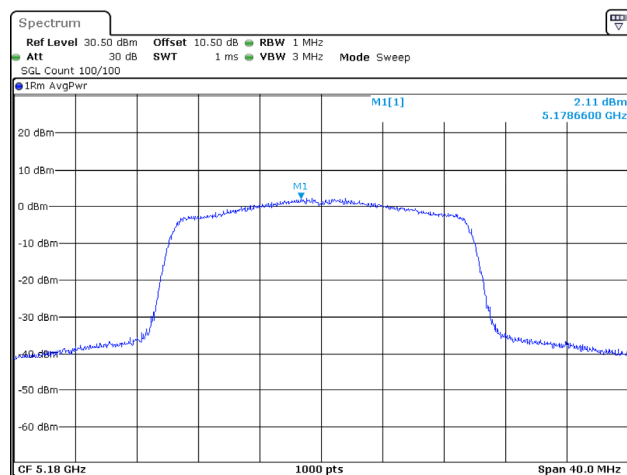
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802.11ac80_5210MHz



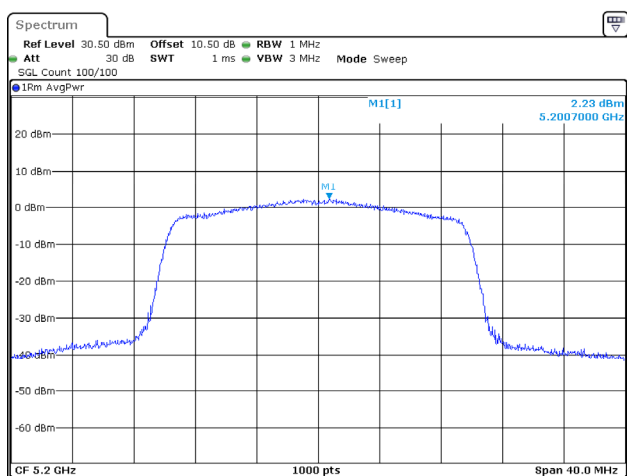
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802.11ax20_5180MHz_RU_Full



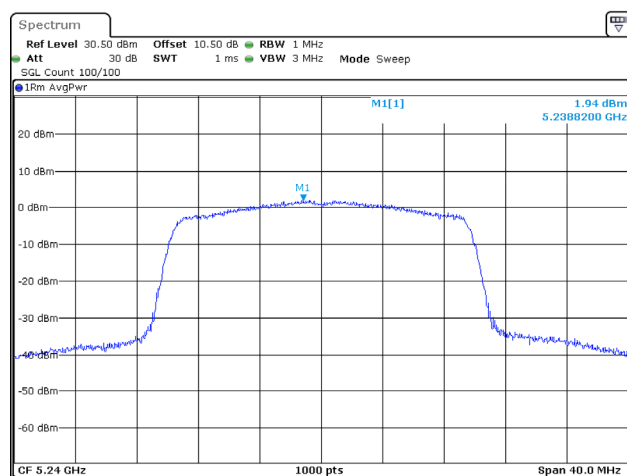
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802.11ax20_5200MHz_RU_Full



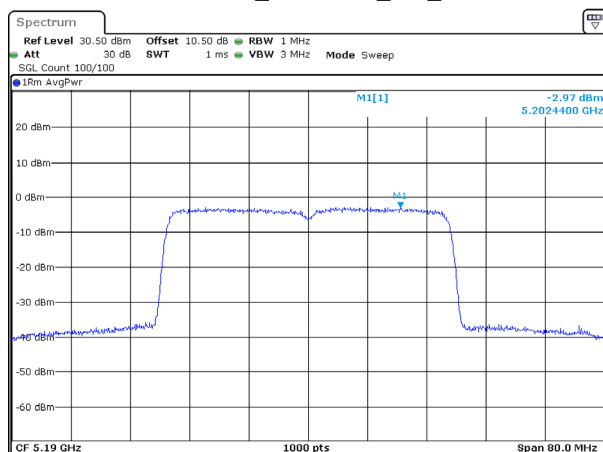
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802.11ax20_5240MHz_RU_Full

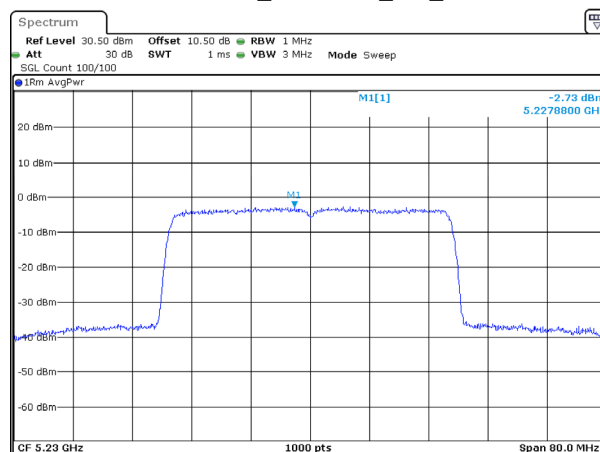


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802.11ax40_5190MHz_RU_Full

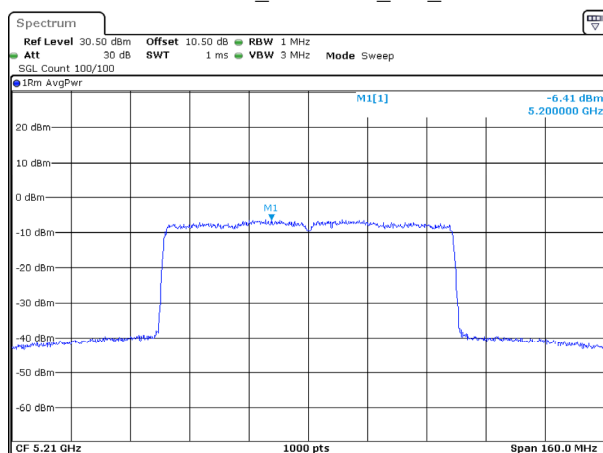


802.11ax40_5230MHz_RU_Full

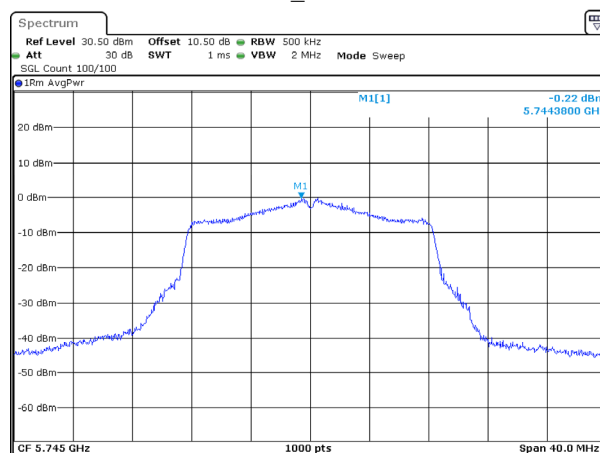


5725-5850MHz

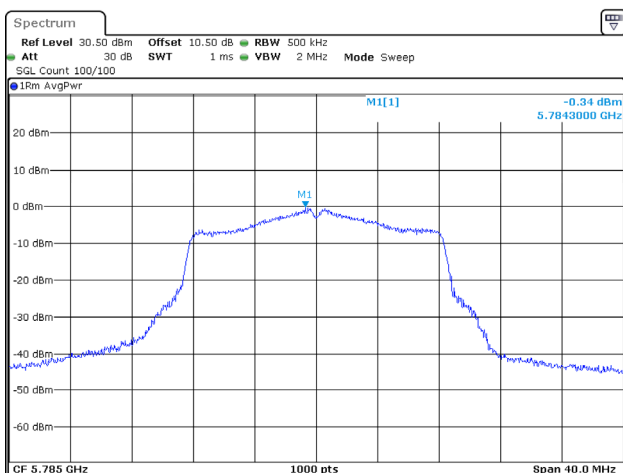
802.11ax80_5210MHz_RU_Full



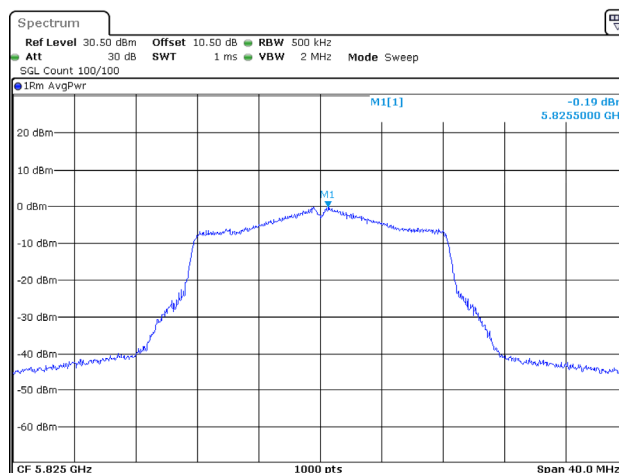
802.11a_5745MHz



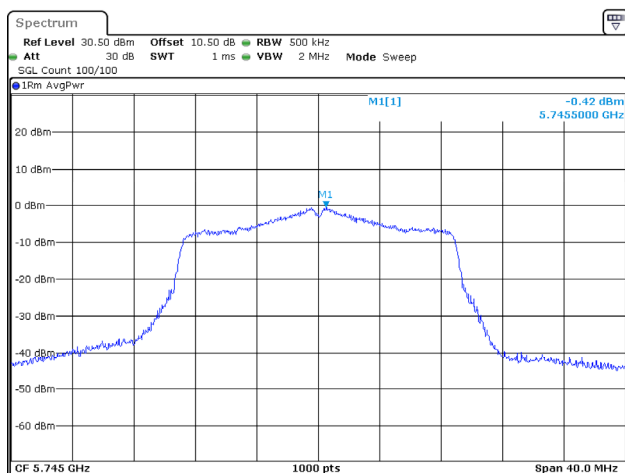
802.11a_5785MHz



802.11a_5825MHz

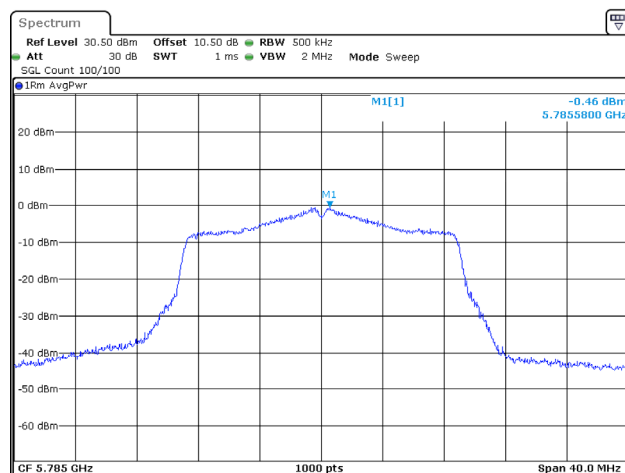


802.11ac20_5745MHz



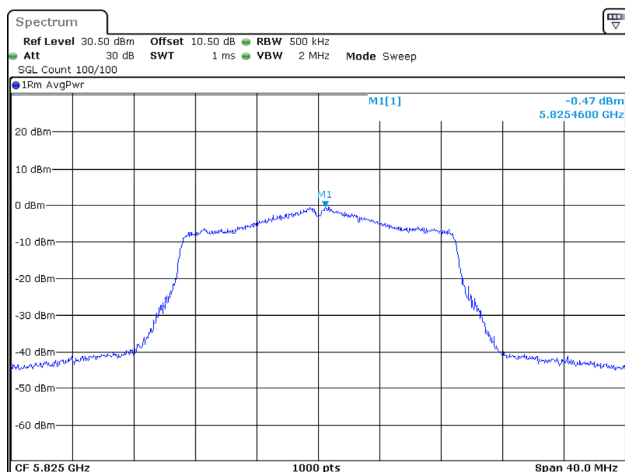
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802.11ac20_5785MHz



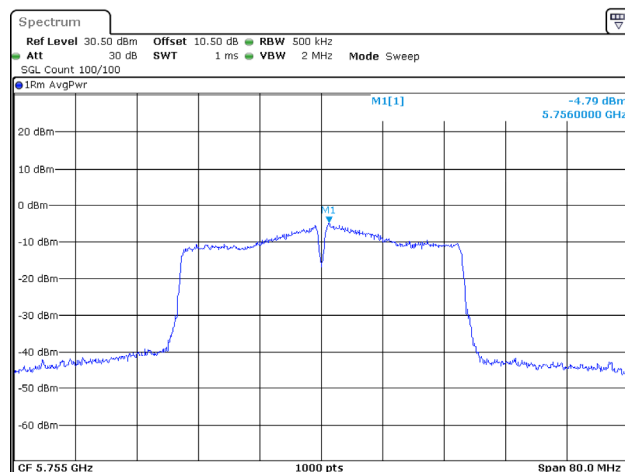
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802.11ac20_5825MHz



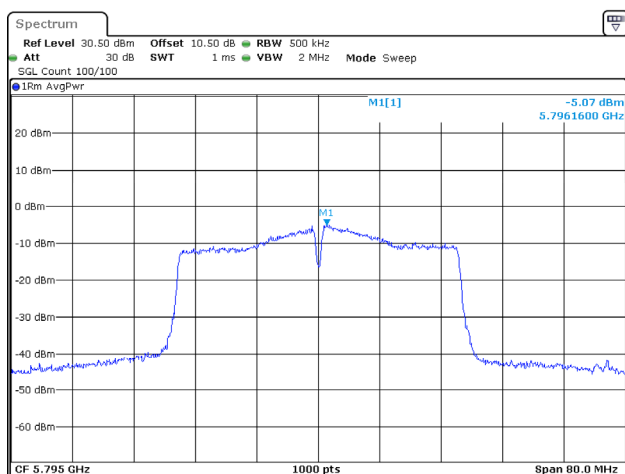
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802.11ac40_5755MHz



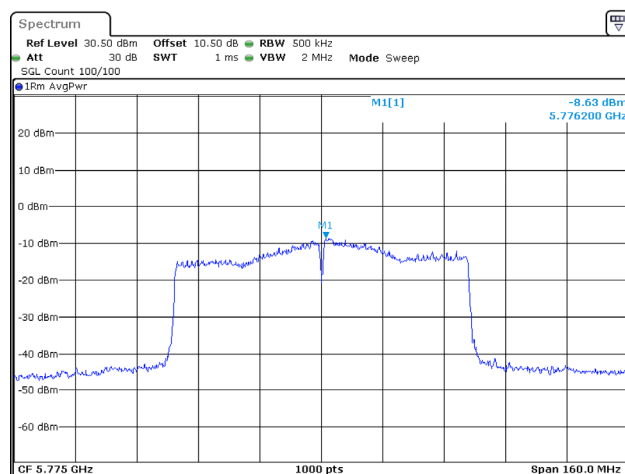
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802.11ac40_5795MHz



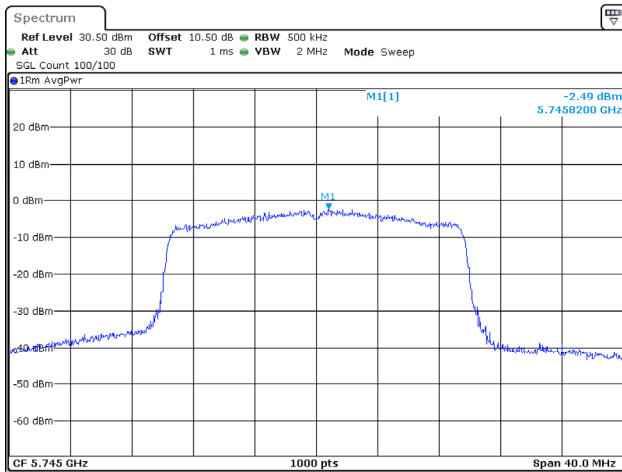
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802.11ac80_5775MHz



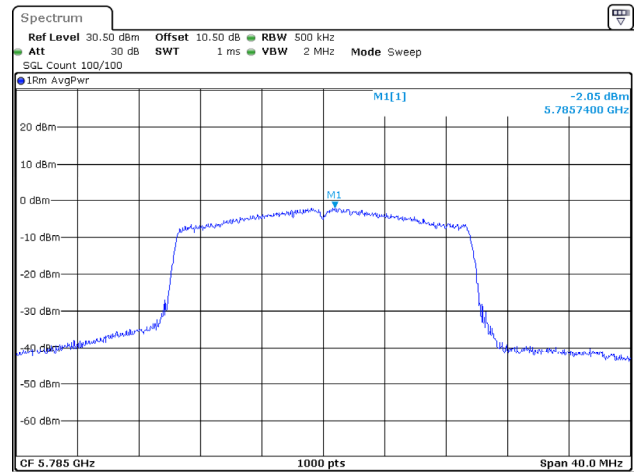
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802.11ax20_5745MHz_RU_Full



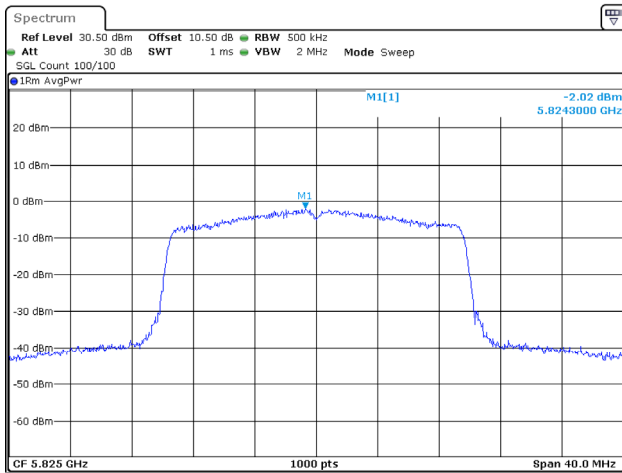
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802.11ax20_5785MHz_RU_Full



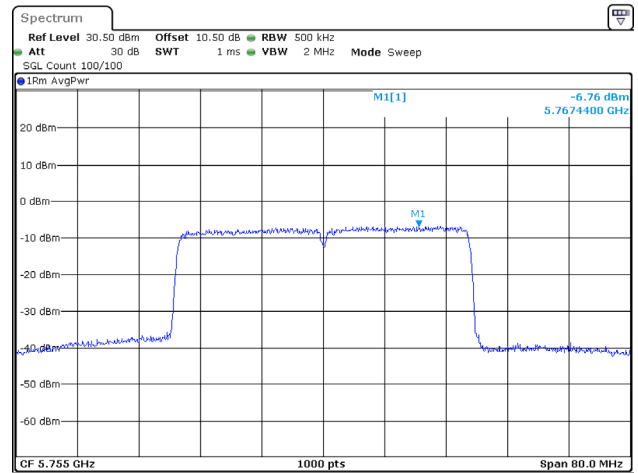
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802.11ax20_5825MHz_RU_Full



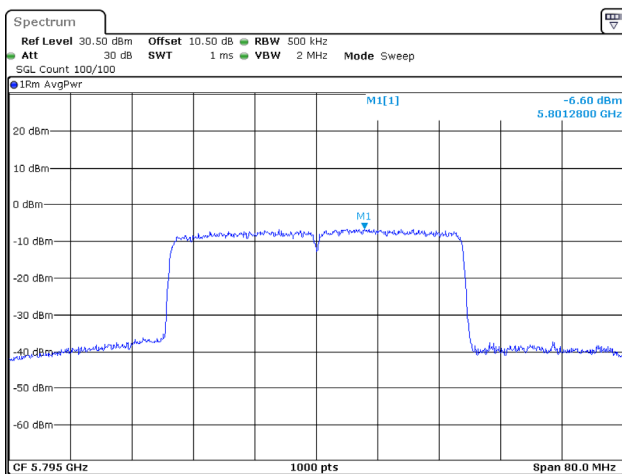
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802.11ax40_5755MHz_RU_Full



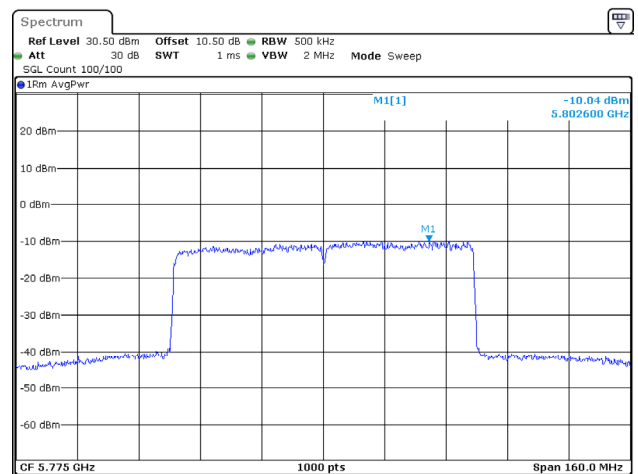
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802.11ax40_5795MHz_RU_Full



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Date: 29.DEC.2024 00:37:42

802.11ax80_5775MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaater Liang
Date: 29.DEC.2024 00:39:00

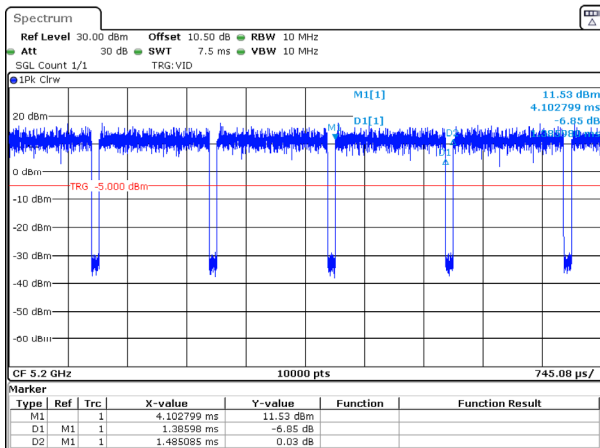
Duty Cycle

5150-5250MHz

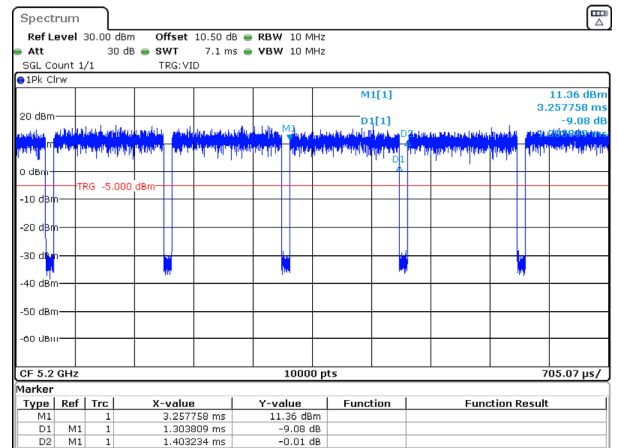
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.386	1.485	93.33	0.30	722	1
802.11ac20	5200	1.304	1.403	92.94	0.32	767	1
802.11ac40	5190	0.656	0.756	86.77	0.62	1524	2
802.11ac80	5210	0.324	0.424	76.42	1.17	3086	5
802.11ax20_RU_Full	5200	1.020	1.120	91.07	0.41	980	1
802.11ax40_RU_Full	5190	0.539	0.639	84.35	0.74	1855	2
802.11ax80_RU_Full	5210	0.290	0.390	74.36	1.29	3448	5

Duty Cycle = Ton/(Ton+Toff)*100%

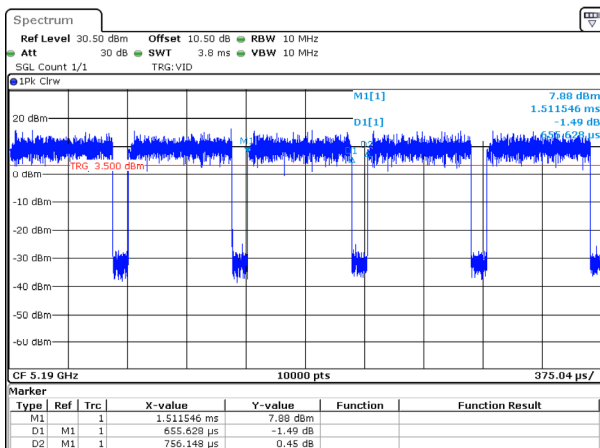
802.11a_5200MHz



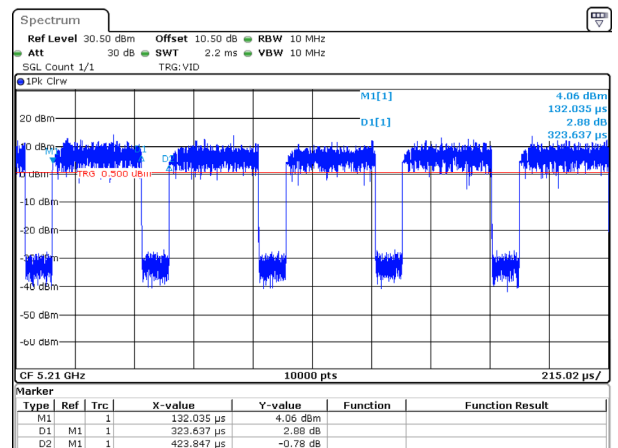
802.11ac20_5200MHz



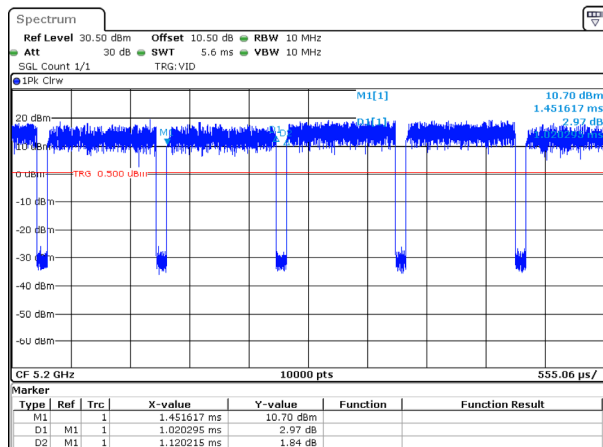
802.11ac40_5190MHz



802.11ac80_5210MHz

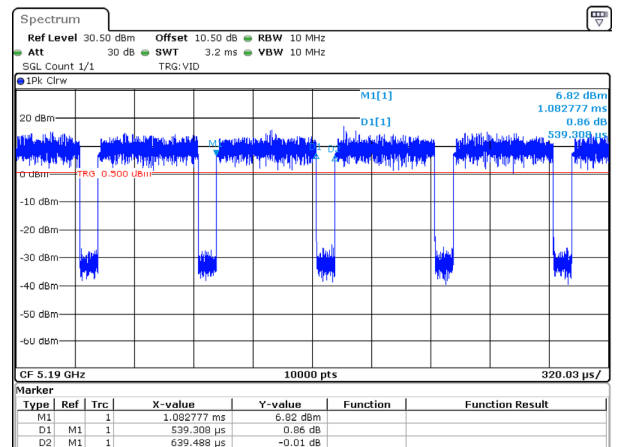


802.11ax20_5200MHz_RU_Full



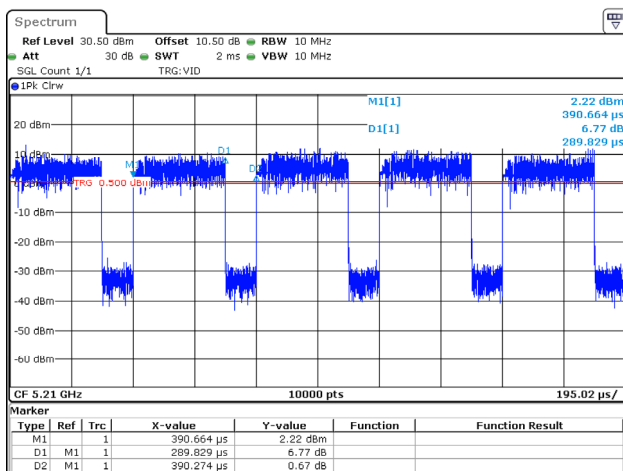
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Date: 28.DEC.2024 18:54:49

802.11ax40_5190MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 28.DEC.2024 18:55:33

802.11ax80_5210MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 28.DEC.2024 18:57:14

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	5171.831	5150.0000	5248.409	5250.0000
	20	138	5171.870	5150.0000	5248.322	5250.0000
	50	138	5171.905	5150.0000	5248.301	5250.0000
	-20	120	5171.855	5150.0000	5248.273	5250.0000
	20	120	5171.775	5150.0000	5248.225	5250.0000
	50	120	5171.788	5150.0000	5248.311	5250.0000
	-20	102	5171.809	5150.0000	5248.232	5250.0000
	20	102	5171.867	5150.0000	5248.264	5250.0000
	50	102	5171.848	5150.0000	5248.330	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
802.11ac20	-20	138	5171.399	5150.0000	5248.878	5250.0000
	20	138	5171.299	5150.0000	5248.776	5250.0000
	50	138	5171.357	5150.0000	5248.935	5250.0000
	-20	120	5171.383	5150.0000	5248.859	5250.0000
	20	120	5171.225	5150.0000	5248.775	5250.0000
	50	120	5171.278	5150.0000	5248.775	5250.0000
	-20	102	5171.377	5150.0000	5248.819	5250.0000
	20	102	5171.240	5150.0000	5248.884	5250.0000
	50	102	5171.393	5150.0000	5248.958	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
802.11ax20	-20	138	5170.536	5150.0000	5249.523	5250.0000
	20	138	5170.531	5150.0000	5249.666	5250.0000
	50	138	5170.535	5150.0000	5249.592	5250.0000
	-20	120	5170.691	5150.0000	5249.636	5250.0000
	20	120	5170.525	5150.0000	5249.475	5250.0000
	50	120	5170.682	5150.0000	5249.491	5250.0000
	-20	102	5170.622	5150.0000	5249.562	5250.0000
	20	102	5170.544	5150.0000	5249.536	5250.0000
	50	102	5170.596	5150.0000	5249.513	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	5172.213	5150.0000	5248.307	5250.0000
	20	138	5172.066	5150.0000	5248.210	5250.0000
	50	138	5172.199	5150.0000	5248.336	5250.0000
	-20	120	5172.233	5150.0000	5248.267	5250.0000
	20	120	5172.050	5150.0000	5248.150	5250.0000
	50	120	5172.164	5150.0000	5248.172	5250.0000
	-20	102	5172.167	5150.0000	5248.157	5250.0000
	20	102	5172.144	5150.0000	5248.304	5250.0000
	50	102	5172.177	5150.0000	5248.350	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
802.11ax40	-20	138	5171.326	5150.0000	5248.878	5250.0000
	20	138	5171.361	5150.0000	5248.979	5250.0000
	50	138	5171.364	5150.0000	5248.891	5250.0000
	-20	120	5171.378	5150.0000	5248.911	5250.0000
	20	120	5171.250	5150.0000	5248.850	5250.0000
	50	120	5171.363	5150.0000	5248.940	5250.0000
	-20	102	5171.322	5150.0000	5248.950	5250.0000
	20	102	5171.272	5150.0000	5248.904	5250.0000
	50	102	5171.414	5150.0000	5249.021	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
802.11ac80	-20	138	5172.541	5150.0000	5247.930	5250.0000
	20	138	5172.598	5150.0000	5247.984	5250.0000
	50	138	5172.646	5150.0000	5247.906	5250.0000
	-20	120	5172.656	5150.0000	5248.096	5250.0000
	20	120	5172.535	5150.0000	5247.900	5250.0000
	50	120	5172.668	5150.0000	5247.962	5250.0000
	-20	102	5172.599	5150.0000	5247.929	5250.0000
	20	102	5172.665	5150.0000	5248.070	5250.0000
	50	102	5172.500	5150.0000	5248.005	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
802.11ax80	-20	138	5171.381	5150.0000	5248.830	5250.0000
	20	138	5171.339	5150.0000	5248.848	5250.0000
	50	138	5171.444	5150.0000	5248.734	5250.0000
	-20	120	5171.416	5150.0000	5248.863	5250.0000
	20	120	5171.330	5150.0000	5248.700	5250.0000
	50	120	5171.336	5150.0000	5248.866	5250.0000
	-20	102	5171.326	5150.0000	5248.742	5250.0000
	20	102	5171.484	5150.0000	5248.877	5250.0000
	50	102	5171.494	5150.0000	5248.849	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	5736.849	5725.0000	5833.229	5850.0000
	20	138	5736.922	5725.0000	5833.331	5850.0000
	50	138	5737.019	5725.0000	5833.300	5850.0000
	-20	120	5736.850	5725.0000	5833.369	5850.0000
	20	120	5736.825	5725.0000	5833.225	5850.0000
	50	120	5736.973	5725.0000	5833.416	5850.0000
	-20	102	5736.990	5725.0000	5833.396	5850.0000
	20	102	5736.992	5725.0000	5833.339	5850.0000
	50	102	5736.882	5725.0000	5833.358	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
802.11ac20	-20	138	5736.386	5725.0000	5833.963	5850.0000
	20	138	5736.319	5725.0000	5833.802	5850.0000
	50	138	5736.247	5725.0000	5833.833	5850.0000
	-20	120	5736.293	5725.0000	5833.782	5850.0000
	20	120	5736.225	5725.0000	5833.775	5850.0000
	50	120	5736.314	5725.0000	5833.958	5850.0000
	-20	102	5736.285	5725.0000	5833.930	5850.0000
	20	102	5736.308	5725.0000	5833.794	5850.0000
	50	102	5736.349	5725.0000	5833.970	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
802.11ax20	-20	138	5735.654	5725.0000	5834.578	5850.0000
	20	138	5735.585	5725.0000	5834.628	5850.0000
	50	138	5735.679	5725.0000	5834.666	5850.0000
	-20	120	5735.662	5725.0000	5834.703	5850.0000
	20	120	5735.575	5725.0000	5834.525	5850.0000
	50	120	5735.732	5725.0000	5834.649	5850.0000
	-20	102	5735.739	5725.0000	5834.716	5850.0000
	20	102	5735.605	5725.0000	5834.724	5850.0000
	50	102	5735.681	5725.0000	5834.595	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	5737.162	5725.0000	5813.215	5850.0000
	20	138	5737.238	5725.0000	5813.268	5850.0000
	50	138	5737.240	5725.0000	5813.271	5850.0000
	-20	120	5737.089	5725.0000	5813.244	5850.0000
	20	120	5737.050	5725.0000	5813.150	5850.0000
	50	120	5737.110	5725.0000	5813.167	5850.0000
	-20	102	5737.075	5725.0000	5813.274	5850.0000
	20	102	5737.215	5725.0000	5813.299	5850.0000
	50	102	5737.151	5725.0000	5813.288	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
802.11ax40	-20	138	5736.347	5725.0000	5813.975	5850.0000
	20	138	5736.341	5725.0000	5814.027	5850.0000
	50	138	5736.381	5725.0000	5814.042	5850.0000
	-20	120	5736.331	5725.0000	5814.083	5850.0000
	20	120	5736.250	5725.0000	5813.950	5850.0000
	50	120	5736.345	5725.0000	5814.044	5850.0000
	-20	102	5736.423	5725.0000	5814.039	5850.0000
	20	102	5736.443	5725.0000	5814.084	5850.0000
	50	102	5736.364	5725.0000	5814.033	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
802.11ac80	-20	138	5737.742	5725.0000	5813.128	5850.0000
	20	138	5737.855	5725.0000	5813.233	5850.0000
	50	138	5737.731	5725.0000	5813.122	5850.0000
	-20	120	5737.866	5725.0000	5813.243	5850.0000
	20	120	5737.700	5725.0000	5813.100	5850.0000
	50	120	5737.705	5725.0000	5813.281	5850.0000
	-20	102	5737.751	5725.0000	5813.126	5850.0000
	20	102	5737.869	5725.0000	5813.222	5850.0000
	50	102	5737.710	5725.0000	5813.215	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
802.11ax80	-20	138	5736.634	5725.0000	5813.925	5850.0000
	20	138	5736.512	5725.0000	5814.027	5850.0000
	50	138	5736.643	5725.0000	5813.955	5850.0000
	-20	120	5736.599	5725.0000	5814.089	5850.0000
	20	120	5736.500	5725.0000	5813.900	5850.0000
	50	120	5736.529	5725.0000	5813.995	5850.0000
	-20	102	5736.694	5725.0000	5813.951	5850.0000
	20	102	5736.634	5725.0000	5814.036	5850.0000
	50	102	5736.501	5725.0000	5813.968	5850.0000