

Appendix G: Frequency Stability

Test Result

Ant 1

Reference Frequency: 802.11ac channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5179.928	-13.90	Within the band of operation	Pass
	-20	5179.937	-12.16		
	-10	5179.931	-13.32		
	0	5179.946	-10.42		
	10	5179.971	-5.60		
	20	5179.982	-3.47		
	30	5179.973	-5.21		
	40	5179.966	-6.56		
	50	5179.948	-10.04		
13.2	20	5179.975	-4.82	Within the band of operation	Pass
10.8	20	5179.978	-4.24		

Reference Frequency: 802.11ac channel=52 frequency=5260MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5259.951	-9.33	Within the band of operation	Pass
	-20	5259.963	-7.05		
	-10	5259.968	-6.10		
	0	5259.976	-4.57		
	10	5259.980	-3.81		
	20	5259.989	-2.10		
	30	5259.979	-4.00		
	40	5259.974	-4.95		
	50	5259.962	-7.24		
13.2	20	5259.973	-5.14	Within the band of operation	Pass
10.8	20	5259.979	-4.00		

Reference Frequency: 802.11ac channel=100 frequency=5500MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5499.949	-9.27	Within the band of operation	Pass
	-20	5499.953	-8.55		
	-10	5499.962	-6.91		
	0	5499.977	-4.18		
	10	5499.982	-3.27		
	20	5499.991	-1.64		
	30	5499.983	-3.09		
	40	5499.978	-4.00		
	50	5499.966	-6.18		
13.2	20	5499.967	-5.82	Within the band of operation	Pass
10.8	20	5499.959	-7.23		

Reference Frequency: 802.11ac channel=149 frequency=5745MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5744.942	-10.41	Within the band of operation	Pass
	-20	5744.948	-9.34		
	-10	5744.952	-8.62		
	0	5744.961	-7.00		
	10	5744.978	-3.95		
	20	5744.989	-1.97		
	30	5744.979	-3.77		
	40	5744.965	-6.28		
	50	5744.958	-7.54		
13.2	20	5744.961	-7.00	Within the band of operation	Pass
10.8	20	5744.964	-6.46		

Ant 2

Reference Frequency: 802.11ac channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5179.943	-11.00	Within the band of operation	Pass
	-20	5179.949	-9.85		
	-10	5179.952	-9.27		
	0	5179.960	-7.72		
	10	5179.979	-4.05		
	20	5179.983	-3.28		
	30	5179.976	-4.63		
	40	5179.964	-6.95		
	50	5179.957	-8.30		
13.2	20	5179.969	-5.97	Within the band of operation	Pass
10.8	20	5179.961	-7.51		

Reference Frequency: 802.11ac channel=52 frequency=5260MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5259.948	-9.90	Within the band of operation	Pass
	-20	5259.953	-8.95		
	-10	5259.961	-7.43		
	0	5259.968	-6.10		
	10	5259.975	-4.76		
	20	5259.988	-2.29		
	30	5259.972	-5.33		
	40	5259.966	-6.48		
	50	5259.954	-8.76		
13.2	20	5259.962	-7.24	Within the band of operation	Pass
10.8	20	5259.965	-6.67		

Reference Frequency: 802.11ac channel=100 frequency=5500MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5499.951	-8.91	Within the band of operation	Pass
	-20	5499.958	-7.64		
	-10	5499.964	-6.55		
	0	5499.974	-4.73		
	10	5499.983	-3.09		
	20	5499.992	-1.45		
	30	5499.986	-2.55		
	40	5499.971	-5.27		
	50	5499.964	-6.55		
13.2	20	5499.969	-5.47	Within the band of operation	Pass
10.8	20	5499.973	-4.76		

Reference Frequency: 802.11ac channel=149 frequency=5745MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	5744.949	-9.16	Within the band of operation	Pass
	-20	5744.957	-7.72		
	-10	5744.964	-6.46		
	0	5744.970	-5.39		
	10	5744.982	-3.23		
	20	5744.991	-1.62		
	30	5744.985	-2.69		
	40	5744.979	-3.77		
	50	5744.962	-6.82		
13.2	20	5744.968	-5.75	Within the band of operation	Pass
10.8	20	5744.970	-5.39		