



11N40MIMO_Ant2_5270



11N40MIMO_Ant1_5310





11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



11N40MIMO_Ant2_5510



11N40MIMO_Ant1_5550



11N40MIMO_Ant2_5550





11N40MIMO_Ant1_5670



11N40MIMO_Ant2_5670



11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795





11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200



11AC20MIMO_Ant2_5200





11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240



11AC20MIMO_Ant1_5260



11AC20MIMO_Ant2_5260



11AC20MIMO_Ant1_5280





11AC20MIMO_Ant2_5280



11AC20MIMO_Ant1_5320



11AC20MIMO_Ant2_5320



11AC20MIMO_Ant1_5500



11AC20MIMO_Ant2_5500

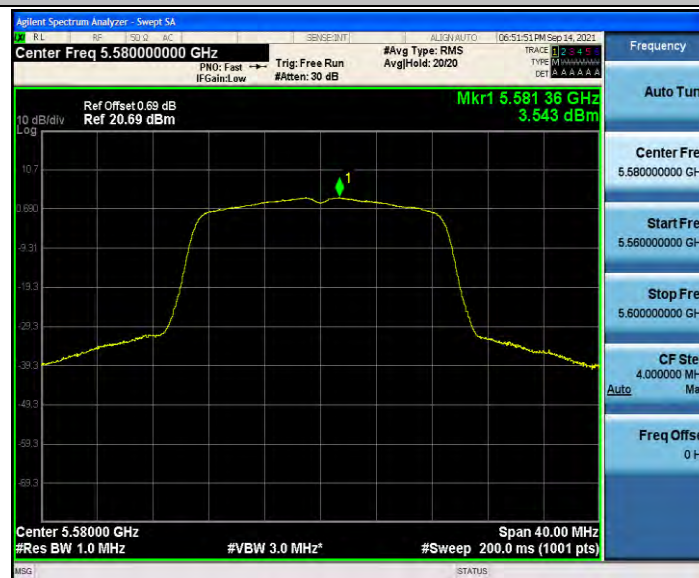




11AC20MIMO_Ant1_5580



11AC20MIMO_Ant2_5580



11AC20MIMO_Ant1_5700



11AC20MIMO_Ant2_5700



11AC20MIMO_Ant1_5745





11AC20MIMO_Ant2_5745



11AC20MIMO_Ant1_5785



11AC20MIMO_Ant2_5785



11AC20MIMO_Ant1_5825



11AC20MIMO_Ant2_5825





11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230



11AC40MIMO_Ant1_5270





11AC40MIMO_Ant2_5270



11AC40MIMO_Ant1_5310



11AC40MIMO_Ant2_5310



11AC40MIMO_Ant1_5510



11AC40MIMO_Ant2_5510





11AC40MIMO_Ant1_5550



11AC40MIMO_Ant2_5550



11AC40MIMO_Ant1_5670



11AC40MIMO_Ant2_5670



11AC40MIMO_Ant1_5755





11AC40MIMO_Ant2_5755



11AC40MIMO_Ant1_5795



11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210





11AC80MIMO_Ant1_5290



11AC80MIMO_Ant2_5290



11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530



11AC80MIMO_Ant1_5610





11AC80MIMO_Ant2_5610



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



CTC Laboratories, Inc.





Appendix D: Frequency Stability

Test Result

Voltage								
Test Mode	Antenna	Freq (MHz)	Voltage [Vdc]	Temp (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20MIMO	Ant2	5180	NV	NT	61900	11.949807	20	PASS
			LV	NT	61900	11.949807	20	PASS
			HV	NT	61900	11.949807	20	PASS
		5200	NV	NT	68900	13.250000	20	PASS
			LV	NT	68900	13.250000	20	PASS
			HV	NT	68900	13.250000	20	PASS
		5240	NV	NT	70900	13.530534	20	PASS
			LV	NT	70900	13.530534	20	PASS
			HV	NT	70900	13.530534	20	PASS
		5260	NV	NT	71900	13.669202	20	PASS
			LV	NT	72900	13.859316	20	PASS
			HV	NT	71900	13.669202	20	PASS
		5280	NV	NT	70900	13.428030	20	PASS
			LV	NT	71900	13.617424	20	PASS
			HV	NT	70900	13.428030	20	PASS
		5320	NV	NT	73900	13.890977	20	PASS
			LV	NT	72900	13.703008	20	PASS
			HV	NT	72900	13.703008	20	PASS
		5500	NV	NT	73900	13.436364	20	PASS
			LV	NT	74900	13.618182	20	PASS
			HV	NT	73900	13.436364	20	PASS
		5580	NV	NT	76900	13.781362	20	PASS
			LV	NT	75900	13.602151	20	PASS
			HV	NT	75900	13.602151	20	PASS
		5700	NV	NT	78900	13.842105	20	PASS
			LV	NT	77900	13.666667	20	PASS
			HV	NT	77900	13.666667	20	PASS
		5745	NV	NT	77900	13.559617	20	PASS
			LV	NT	77900	13.559617	20	PASS
			HV	NT	76900	13.385553	20	PASS
		5785	NV	NT	90900	15.713051	20	PASS
			LV	NT	91900	15.885912	20	PASS
			HV	NT	90900	15.713051	20	PASS
		5825	NV	NT	87900	15.090129	20	PASS
			LV	NT	87900	15.090129	20	PASS



			HV	NT	87900	15.090129	20	PASS
11AC40MIMO	Ant2	5190	NV	NT	77900	15.009634	20	PASS
			LV	NT	77900	15.009634	20	PASS
			HV	NT	76900	14.816956	20	PASS
		5230	NV	NT	78900	15.086042	20	PASS
			LV	NT	79900	15.277247	20	PASS
			HV	NT	79900	15.277247	20	PASS
		5270	NV	NT	79900	15.161290	20	PASS
			LV	NT	79900	15.161290	20	PASS
			HV	NT	78900	14.971537	20	PASS
		5310	NV	NT	84900	15.988701	20	PASS
			LV	NT	83900	15.800377	20	PASS
			HV	NT	83900	15.800377	20	PASS
		5510	NV	NT	84900	15.408348	20	PASS
			LV	NT	84900	15.408348	20	PASS
			HV	NT	83900	15.226860	20	PASS
		5550	NV	NT	83900	15.117117	20	PASS
			LV	NT	83900	15.117117	20	PASS
			HV	NT	84900	15.297297	20	PASS
		5670	NV	NT	86900	15.326279	20	PASS
			LV	NT	85900	15.149912	20	PASS
			HV	NT	85900	15.149912	20	PASS
		5755	NV	NT	87900	15.273675	20	PASS
			LV	NT	87900	15.273675	20	PASS
			HV	NT	88900	15.447437	20	PASS
		5795	NV	NT	87900	15.168248	20	PASS
			LV	NT	86900	14.995686	20	PASS
			HV	NT	86900	14.995686	20	PASS
11AC80MIMO	Ant2	5210	NV	NT	78900	15.143954	20	PASS
			LV	NT	78900	15.143954	20	PASS
			HV	NT	79900	15.335893	20	PASS
		5290	NV	NT	79900	15.335893	20	PASS
			LV	NT	78900	14.914934	20	PASS
			HV	NT	78900	14.914934	20	PASS
		5530	NV	NT	83900	15.171790	20	PASS
			LV	NT	83900	15.171790	20	PASS
			HV	NT	83900	15.171790	20	PASS
		5610	NV	NT	76900	13.707665	20	PASS
			LV	NT	77900	13.885918	20	PASS
			HV	NT	76900	13.707665	20	PASS
		5775	NV	NT	77900	13.489177	20	PASS
			LV	NT	78900	13.662338	20	PASS
			HV	NT	78900	13.662338	20	PASS



Temperature								
Test Mode	Antenna	Freq (MHz)	Voltage [Vdc]	Temp (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20MIMO	Ant2	5180	NV	-25	64900	12.528958	20	PASS
			NV	-20	65900	12.722008	20	PASS
			NV	-10	64900	12.528958	20	PASS
			NV	0	66900	12.915058	20	PASS
			NV	10	66900	12.915058	20	PASS
			NV	20	67900	13.108108	20	PASS
			NV	30	67900	13.108108	20	PASS
			NV	40	67900	13.108108	20	PASS
			NV	45	68900	13.301158	20	PASS
		5200	NV	-25	68900	13.250000	20	PASS
			NV	-20	69900	13.442308	20	PASS
			NV	-10	68900	13.250000	20	PASS
			NV	0	69900	13.442308	20	PASS
			NV	10	69900	13.442308	20	PASS
			NV	20	69900	13.442308	20	PASS
			NV	30	69900	13.442308	20	PASS
			NV	40	69900	13.442308	20	PASS
			NV	45	69900	13.442308	20	PASS
		5240	NV	-25	70900	13.530534	20	PASS
			NV	-20	70900	13.530534	20	PASS
			NV	-10	71900	13.721374	20	PASS
			NV	0	71900	13.721374	20	PASS
			NV	10	72900	13.859316	20	PASS
			NV	20	71900	13.721374	20	PASS
			NV	30	71900	13.721374	20	PASS
			NV	40	71900	13.721374	20	PASS
			NV	45	71900	13.721374	20	PASS
		5260	NV	-25	71900	13.669202	20	PASS
			NV	-20	72900	13.859316	20	PASS
			NV	-10	72900	13.859316	20	PASS
			NV	0	70900	13.479087	20	PASS
			NV	10	71900	13.669202	20	PASS
			NV	20	71900	13.669202	20	PASS
			NV	30	70900	13.479087	20	PASS
			NV	40	71900	13.669202	20	PASS
			NV	45	70900	13.479087	20	PASS
		5280	NV	-25	70900	13.428030	20	PASS
			NV	-20	71900	13.617424	20	PASS
			NV	-10	70900	13.428030	20	PASS



			NV	0	71900	13.617424	20	PASS
			NV	10	70900	13.428030	20	PASS
			NV	20	71900	13.617424	20	PASS
			NV	30	71900	13.617424	20	PASS
			NV	40	71900	13.617424	20	PASS
			NV	45	71900	13.617424	20	PASS
		5320	NV	-25	71900	13.515038	20	PASS
			NV	-20	70900	13.327068	20	PASS
			NV	-10	70900	13.327068	20	PASS
			NV	0	71900	13.515038	20	PASS
			NV	10	69900	13.139098	20	PASS
			NV	20	69900	13.139098	20	PASS
			NV	30	70900	13.327068	20	PASS
			NV	40	70900	13.327068	20	PASS
			NV	45	68900	12.951128	20	PASS
		5500	NV	-25	73900	13.436364	20	PASS
			NV	-20	73900	13.436364	20	PASS
			NV	-10	73900	13.436364	20	PASS
			NV	0	75900	13.800000	20	PASS
			NV	10	74900	13.618182	20	PASS
			NV	20	74900	13.618182	20	PASS
			NV	30	74900	13.618182	20	PASS
			NV	40	75900	13.800000	20	PASS
			NV	45	74900	13.618182	20	PASS
		5580	NV	-25	75900	13.602151	20	PASS
			NV	-20	75900	13.602151	20	PASS
			NV	-10	76900	13.781362	20	PASS
			NV	0	76900	13.781362	20	PASS
			NV	10	76900	13.781362	20	PASS
			NV	20	75900	13.602151	20	PASS
			NV	30	75900	13.602151	20	PASS
			NV	40	76900	13.781362	20	PASS
			NV	45	76900	13.781362	20	PASS
		5700	NV	-25	77900	13.666667	20	PASS
			NV	-20	78900	13.842105	20	PASS
			NV	-10	77900	13.666667	20	PASS
			NV	0	77900	13.666667	20	PASS
			NV	10	77900	13.666667	20	PASS
			NV	20	77900	13.666667	20	PASS
			NV	30	76900	13.491228	20	PASS
			NV	40	77900	13.666667	20	PASS
			NV	45	78900	13.842105	20	PASS
		5745	NV	-25	76900	13.385553	20	PASS



			NV	-20	77900	13.559617	20	PASS
			NV	-10	76900	13.385553	20	PASS
			NV	0	76900	13.385553	20	PASS
			NV	10	77900	13.559617	20	PASS
			NV	20	77900	13.559617	20	PASS
			NV	30	76900	13.385553	20	PASS
			NV	40	77900	13.559617	20	PASS
			NV	45	77900	13.559617	20	PASS
		5785	NV	-25	90900	15.713051	20	PASS
			NV	-20	89900	15.540190	20	PASS
			NV	-10	88900	15.367329	20	PASS
			NV	0	88900	15.367329	20	PASS
			NV	10	88900	15.367329	20	PASS
			NV	20	86900	15.021608	20	PASS
			NV	30	86900	15.021608	20	PASS
			NV	40	86900	15.021608	20	PASS
			NV	45	86900	15.021608	20	PASS
		5825	NV	-25	86900	14.918455	20	PASS
			NV	-20	86900	14.918455	20	PASS
			NV	-10	87900	15.090129	20	PASS
			NV	0	85900	14.746781	20	PASS
			NV	10	87900	15.090129	20	PASS
			NV	20	87900	15.090129	20	PASS
			NV	30	86900	14.918455	20	PASS
			NV	40	87900	15.090129	20	PASS
			NV	45	87900	15.090129	20	PASS
11AC40MIMO	Ant2	5190	NV	-25	77900	15.009634	20	PASS
			NV	-20	76900	14.816956	20	PASS
			NV	-10	77900	15.009634	20	PASS
			NV	0	77900	15.009634	20	PASS
			NV	10	77900	15.009634	20	PASS
			NV	20	78900	15.086042	20	PASS
			NV	30	77900	15.009634	20	PASS
			NV	40	77900	15.009634	20	PASS
		5230	NV	45	77900	15.009634	20	PASS
			NV	-25	78900	15.086042	20	PASS
			NV	-20	77900	14.894837	20	PASS
			NV	-10	78900	15.086042	20	PASS
			NV	0	78900	15.086042	20	PASS
			NV	10	78900	15.086042	20	PASS
			NV	20	78900	15.086042	20	PASS
			NV	30	79900	15.277247	20	PASS
			NV	40	79900	15.277247	20	PASS



			NV	45	78900	15.086042	20	PASS
		5270	NV	-25	79900	15.161290	20	PASS
			NV	-20	78900	14.971537	20	PASS
			NV	-10	78900	14.971537	20	PASS
			NV	0	78900	14.971537	20	PASS
			NV	10	79900	15.161290	20	PASS
			NV	20	78900	14.971537	20	PASS
			NV	30	78900	14.971537	20	PASS
			NV	40	78900	14.971537	20	PASS
			NV	45	78900	14.971537	20	PASS
		5310	NV	-25	81900	15.423729	20	PASS
			NV	-20	81900	15.423729	20	PASS
			NV	-10	80900	15.235405	20	PASS
			NV	0	80900	15.235405	20	PASS
			NV	10	80900	15.235405	20	PASS
			NV	20	80900	15.235405	20	PASS
			NV	30	79900	15.047081	20	PASS
			NV	40	80900	15.235405	20	PASS
			NV	45	80900	15.235405	20	PASS
		5510	NV	-25	82900	15.045372	20	PASS
			NV	-20	82900	15.045372	20	PASS
			NV	-10	82900	15.045372	20	PASS
			NV	0	82900	15.045372	20	PASS
			NV	10	83900	15.226860	20	PASS
			NV	20	82900	15.045372	20	PASS
			NV	30	82900	15.045372	20	PASS
			NV	40	82900	15.045372	20	PASS
			NV	45	81900	14.863884	20	PASS
		5550	NV	-25	83900	15.117117	20	PASS
			NV	-20	85900	15.477477	20	PASS
			NV	-10	84900	15.297297	20	PASS
			NV	0	84900	15.297297	20	PASS
			NV	10	84900	15.297297	20	PASS
			NV	20	84900	15.297297	20	PASS
			NV	30	84900	15.297297	20	PASS
			NV	40	83900	15.117117	20	PASS
			NV	45	84900	15.297297	20	PASS
		5670	NV	-25	85900	15.149912	20	PASS
			NV	-20	85900	15.149912	20	PASS
			NV	-10	84900	14.973545	20	PASS
			NV	0	84900	14.973545	20	PASS
			NV	10	85900	15.149912	20	PASS
			NV	20	86900	15.326279	20	PASS



			NV	30	85900	15.149912	20	PASS
			NV	40	84900	14.973545	20	PASS
			NV	45	84900	14.973545	20	PASS
		5755	NV	-25	89900	15.621199	20	PASS
			NV	-20	89900	15.621199	20	PASS
			NV	-10	88900	15.447437	20	PASS
			NV	0	88900	15.447437	20	PASS
			NV	10	87900	15.273675	20	PASS
			NV	20	87900	15.273675	20	PASS
			NV	30	87900	15.273675	20	PASS
			NV	40	86900	15.099913	20	PASS
			NV	45	87900	15.273675	20	PASS
		5795	NV	-25	87900	15.168248	20	PASS
			NV	-20	87900	15.168248	20	PASS
			NV	-10	87900	15.168248	20	PASS
			NV	0	87900	15.168248	20	PASS
			NV	10	88900	15.340811	20	PASS
			NV	20	88900	15.340811	20	PASS
			NV	30	86900	14.995686	20	PASS
			NV	40	87900	15.168248	20	PASS
			NV	45	86900	14.995686	20	PASS
11AC80MIMO	Ant2	5210	NV	-25	78900	15.143954	20	PASS
			NV	-20	78900	15.143954	20	PASS
			NV	-10	78900	15.143954	20	PASS
			NV	0	78900	15.143954	20	PASS
			NV	10	79900	15.335893	20	PASS
			NV	20	79900	15.335893	20	PASS
			NV	30	78900	15.143954	20	PASS
			NV	40	78900	15.143954	20	PASS
			NV	45	78900	15.143954	20	PASS
		5290	NV	-25	79900	15.103970	20	PASS
			NV	-20	80900	15.293006	20	PASS
			NV	-10	79900	15.103970	20	PASS
			NV	0	79900	15.103970	20	PASS
			NV	10	80900	15.293006	20	PASS
			NV	20	79900	15.103970	20	PASS
			NV	30	79900	15.103970	20	PASS
			NV	40	80900	15.293006	20	PASS
			NV	45	79900	15.103970	20	PASS
		5530	NV	-25	80900	14.629295	20	PASS
			NV	-20	79900	14.448463	20	PASS
			NV	-10	79900	14.448463	20	PASS
			NV	0	77900	14.086799	20	PASS



			NV	10	77900	14.086799	20	PASS
			NV	20	77900	14.086799	20	PASS
			NV	30	76900	13.905967	20	PASS
			NV	40	76900	13.905967	20	PASS
			NV	45	76900	13.905967	20	PASS
		5610	NV	-25	76900	13.707665	20	PASS
			NV	-20	76900	13.707665	20	PASS
			NV	-10	77900	13.885918	20	PASS
			NV	0	75900	13.529412	20	PASS
			NV	10	76900	13.707665	20	PASS
			NV	20	75900	13.529412	20	PASS
			NV	30	76900	13.707665	20	PASS
			NV	40	76900	13.707665	20	PASS
			NV	45	75900	13.529412	20	PASS
		5775	NV	-25	78900	13.662338	20	PASS
			NV	-20	78900	13.662338	20	PASS
			NV	-10	77900	13.489177	20	PASS
			NV	0	78900	13.662338	20	PASS
			NV	10	77900	13.489177	20	PASS
			NV	20	77900	13.489177	20	PASS
			NV	30	78900	13.662338	20	PASS
			NV	40	78900	13.662338	20	PASS
			NV	45	78900	13.662338	20	PASS