

Appendix F - Frequency Stability

Band	PCC Freq (MHz)	SCC Freq (MHz)	Modulation	PCC_ Deviation (Hz)	PCC_ Deviation (ppm)	SCC_ Deviation (Hz)	SCC_ Deviation (ppm)	Limit (ppm)	Verdict	Environment
CA_5B	831.6	841.5	QPSK	-2.55	-0.003	7.24	0.009	±2.5	PASS	20°C/3.6V
CA_5B	831.6	841.5	16QAM	-5.96	-0.007	-1.78	-0.002	±2.5	PASS	20°C/3.6V
CA_5B	831.6	841.5	QPSK	-6.63	-0.008	7.22	0.009	±2.5	PASS	20°C/4.5V
CA_5B	831.6	841.5	16QAM	2.63	0.003	1.51	0.002	±2.5	PASS	20°C/4.5V
CA_5B	831.6	841.5	QPSK	9.93	0.012	8.12	0.010	±2.5	PASS	50°C/3.91V
CA_5B	831.6	841.5	16QAM	-4.37	-0.005	-5.00	-0.006	±2.5	PASS	50°C/3.91V
CA_5B	831.6	841.5	QPSK	-1.44	-0.002	-7.62	-0.009	±2.5	PASS	40°C/3.91V
CA_5B	831.6	841.5	16QAM	6.92	0.008	0.54	0.001	±2.5	PASS	40°C/3.91V
CA_5B	831.6	841.5	QPSK	2.76	0.003	-1.64	-0.002	±2.5	PASS	30°C/3.91V
CA_5B	831.6	841.5	16QAM	-2.74	-0.003	9.80	0.012	±2.5	PASS	30°C/3.91V
CA_5B	831.6	841.5	QPSK	8.59	0.010	4.98	0.006	±2.5	PASS	20°C/3.91V
CA_5B	831.6	841.5	16QAM	-1.51	-0.002	-7.94	-0.009	±2.5	PASS	20°C/3.91V
CA_5B	831.6	841.5	QPSK	0.21	0.000	-2.50	-0.003	±2.5	PASS	10°C/3.91V
CA_5B	831.6	841.5	16QAM	-5.35	-0.006	7.49	0.009	±2.5	PASS	10°C/3.91V
CA_5B	831.6	841.5	QPSK	-7.98	-0.010	6.70	0.008	±2.5	PASS	0°C/3.91V
CA_5B	831.6	841.5	16QAM	-9.85	-0.012	5.05	0.006	±2.5	PASS	0°C/3.91V
CA_5B	831.6	841.5	QPSK	-9.31	-0.011	2.33	0.003	±2.5	PASS	-10°C/3.91V
CA_5B	831.6	841.5	16QAM	-4.40	-0.005	2.02	0.002	±2.5	PASS	-10°C/3.91V
CA_5B	831.6	841.5	QPSK	7.16	0.009	4.52	0.005	±2.5	PASS	-20°C/3.91V
CA_5B	831.6	841.5	16QAM	5.49	0.007	5.11	0.006	±2.5	PASS	-20°C/3.91V
CA_5B	831.6	841.5	QPSK	0.57	0.001	8.30	0.010	±2.5	PASS	-30°C/3.91V
CA_5B	831.6	841.5	16QAM	5.32	0.006	-7.81	-0.009	±2.5	PASS	-30°C/3.91V

Band	Freq (MHz)	Modulation	Lower Edge (MHz) (Result)	Limit (MHz)	Upper Edge (MHz) (Result)	Limit (MHz)	Verdict	Environment
CA_7C	2500/2570	QPSK	2500.006	2500	2569.972	2570	PASS	20°C/3.6V
CA_7C	2500/2570	16QAM	2500.077	2500	2569.987	2570	PASS	20°C/3.6V
CA_7C	2500/2570	QPSK	2500.044	2500	2569.840	2570	PASS	20°C/4.5V
CA_7C	2500/2570	16QAM	2500.132	2500	2569.908	2570	PASS	20°C/4.5V
CA_7C	2500/2570	QPSK	2500.138	2500	2569.827	2570	PASS	50°C/3.91V
CA_7C	2500/2570	16QAM	2500.019	2500	2569.897	2570	PASS	50°C/3.91V
CA_7C	2500/2570	QPSK	2500.038	2500	2569.965	2570	PASS	40°C/3.91V
CA_7C	2500/2570	16QAM	2500.043	2500	2569.924	2570	PASS	40°C/3.91V
CA_7C	2500/2570	QPSK	2500.101	2500	2569.828	2570	PASS	30°C/3.91V
CA_7C	2500/2570	16QAM	2500.136	2500	2569.970	2570	PASS	30°C/3.91V
CA_7C	2500/2570	QPSK	2500.168	2500	2569.817	2570	PASS	20°C/3.91V
CA_7C	2500/2570	16QAM	2500.193	2500	2569.911	2570	PASS	20°C/3.91V
CA_7C	2500/2570	QPSK	2500.062	2500	2569.974	2570	PASS	10°C/3.91V
CA_7C	2500/2570	16QAM	2500.149	2500	2569.936	2570	PASS	10°C/3.91V
CA_7C	2500/2570	QPSK	2500.200	2500	2569.890	2570	PASS	0°C/3.91V
CA_7C	2500/2570	16QAM	2500.195	2500	2569.831	2570	PASS	0°C/3.91V
CA_7C	2500/2570	QPSK	2500.172	2500	2569.979	2570	PASS	-10°C/3.91V
CA_7C	2500/2570	16QAM	2500.194	2500	2569.927	2570	PASS	-10°C/3.91V
CA_7C	2500/2570	QPSK	2500.020	2500	2569.832	2570	PASS	-20°C/3.91V
CA_7C	2500/2570	16QAM	2500.127	2500	2569.929	2570	PASS	-20°C/3.91V
CA_7C	2500/2570	QPSK	2500.076	2500	2569.834	2570	PASS	-30°C/3.91V
CA_7C	2500/2570	16QAM	2500.067	2500	2569.824	2570	PASS	-30°C/3.91V

Band	Freq (MHz)	Modulation	Lower Edge (MHz) (Result)	Limit (MHz)	Upper Edge (MHz) (Result)	Limit (MHz)	Verdict	Environment
CA_38C	2570/2620	QPSK	2570.102	2570	2619.961	2620	PASS	20°C/3.6V
CA_38C	2570/2620	16QAM	2570.108	2570	2619.963	2620	PASS	20°C/3.6V
CA_38C	2570/2620	QPSK	2570.008	2570	2619.822	2620	PASS	20°C/4.5V
CA_38C	2570/2620	16QAM	2570.085	2570	2619.854	2620	PASS	20°C/4.5V
CA_38C	2570/2620	QPSK	2570.031	2570	2619.932	2620	PASS	50°C/3.91V
CA_38C	2570/2620	16QAM	2570.080	2570	2619.819	2620	PASS	50°C/3.91V
CA_38C	2570/2620	QPSK	2570.079	2570	2619.986	2620	PASS	40°C/3.91V
CA_38C	2570/2620	16QAM	2570.142	2570	2619.895	2620	PASS	40°C/3.91V
CA_38C	2570/2620	QPSK	2570.196	2570	2619.890	2620	PASS	30°C/3.91V
CA_38C	2570/2620	16QAM	2570.076	2570	2619.827	2620	PASS	30°C/3.91V
CA_38C	2570/2620	QPSK	2570.063	2570	2619.845	2620	PASS	20°C/3.91V
CA_38C	2570/2620	16QAM	2570.161	2570	2619.920	2620	PASS	20°C/3.91V
CA_38C	2570/2620	QPSK	2570.175	2570	2619.825	2620	PASS	10°C/3.91V
CA_38C	2570/2620	16QAM	2570.127	2570	2619.987	2620	PASS	10°C/3.91V
CA_38C	2570/2620	QPSK	2570.088	2570	2619.951	2620	PASS	0°C/3.91V
CA_38C	2570/2620	16QAM	2570.120	2570	2619.845	2620	PASS	0°C/3.91V
CA_38C	2570/2620	QPSK	2570.172	2570	2619.876	2620	PASS	-10°C/3.91V
CA_38C	2570/2620	16QAM	2570.079	2570	2619.965	2620	PASS	-10°C/3.91V
CA_38C	2570/2620	QPSK	2570.132	2570	2619.920	2620	PASS	-20°C/3.91V
CA_38C	2570/2620	16QAM	2570.001	2570	2619.845	2620	PASS	-20°C/3.91V
CA_38C	2570/2620	QPSK	2570.195	2570	2619.930	2620	PASS	-30°C/3.91V
CA_38C	2570/2620	16QAM	2570.141	2570	2619.964	2620	PASS	-30°C/3.91V

Band	Freq (MHz)	Modulation	Lower Edge (MHz) (Result)	Limit (MHz)	Upper Edge (MHz) (Result)	Limit (MHz)	Verdict	Environment
CA_41C	2535/2655	QPSK	2535.058	2535	2654.951	2655	PASS	20°C/3.6V
CA_41C	2535/2655	16QAM	2535.171	2535	2654.963	2655	PASS	20°C/3.6V
CA_41C	2535/2655	QPSK	2535.082	2535	2654.817	2655	PASS	20°C/4.5V
CA_41C	2535/2655	16QAM	2535.139	2535	2654.819	2655	PASS	20°C/4.5V
CA_41C	2535/2655	QPSK	2535.094	2535	2654.908	2655	PASS	50°C/3.91V
CA_41C	2535/2655	16QAM	2535.027	2535	2654.971	2655	PASS	50°C/3.91V
CA_41C	2535/2655	QPSK	2535.008	2535	2654.852	2655	PASS	40°C/3.91V
CA_41C	2535/2655	16QAM	2535.180	2535	2654.941	2655	PASS	40°C/3.91V
CA_41C	2535/2655	QPSK	2535.034	2535	2654.919	2655	PASS	30°C/3.91V
CA_41C	2535/2655	16QAM	2535.113	2535	2654.917	2655	PASS	30°C/3.91V
CA_41C	2535/2655	QPSK	2535.160	2535	2654.805	2655	PASS	20°C/3.91V
CA_41C	2535/2655	16QAM	2535.022	2535	2654.932	2655	PASS	20°C/3.91V
CA_41C	2535/2655	QPSK	2535.103	2535	2654.947	2655	PASS	10°C/3.91V
CA_41C	2535/2655	16QAM	2535.026	2535	2654.821	2655	PASS	10°C/3.91V
CA_41C	2535/2655	QPSK	2535.108	2535	2654.844	2655	PASS	0°C/3.91V
CA_41C	2535/2655	16QAM	2535.145	2535	2654.814	2655	PASS	0°C/3.91V
CA_41C	2535/2655	QPSK	2535.154	2535	2654.850	2655	PASS	-10°C/3.91V
CA_41C	2535/2655	16QAM	2535.129	2535	2654.821	2655	PASS	-10°C/3.91V
CA_41C	2535/2655	QPSK	2535.169	2535	2654.947	2655	PASS	-20°C/3.91V
CA_41C	2535/2655	16QAM	2535.142	2535	2654.991	2655	PASS	-20°C/3.91V
CA_41C	2535/2655	QPSK	2535.151	2535	2654.807	2655	PASS	-30°C/3.91V
CA_41C	2535/2655	16QAM	2535.106	2535	2654.852	2655	PASS	-30°C/3.91V