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Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band17	5MHz	QPSK	23755	25RB#0	VN	NT	-5.75	-0.008139	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VL	NT	4.42	0.006256	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VH	NT	2.83	0.004006	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VN	NT	-4.88	-0.006907	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VL	NT	5.14	0.007275	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VH	NT	3.15	0.004459	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VN	NT	-7.78	-0.010958	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VL	NT	2.65	0.003732	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VH	NT	1.96	0.002761	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VN	NT	4.41	0.006211	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VL	NT	3.58	0.005042	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VH	NT	3.23	0.004549	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VN	NT	-6.78	-0.009502	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VL	NT	-5.06	-0.007092	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VH	NT	-6.04	-0.008465	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VN	NT	-1.22	-0.001710	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VL	NT	-2.98	-0.004177	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VH	NT	-3.55	-0.004975	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-2.99	-0.004217	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-3.30	-0.004654	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-3.08	-0.004344	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-1.19	-0.001678	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-1.75	-0.002468	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	1.59	0.002243	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-5.15	-0.007254	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-4.59	-0.006465	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-4.95	-0.006972	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-3.09	-0.004352	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-4.18	-0.005887	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-4.12	-0.005803	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	1.73	0.002433	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	1.87	0.002630	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	3.49	0.004909	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	2.59	0.003643	±2.5	PASS

Band17	10MHz	16QAM	23800	50RB#0	VL	NT	2.10	0.002954	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	2.05	0.002883	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	NV	-30	-1.80	-0.002548	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-20	-4.36	-0.006171	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-10	-6.28	-0.008889	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	0	2.33	0.003298	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	10	1.72	0.002435	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	20	-3.91	-0.005534	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	30	-5.94	-0.008408	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	40	1.80	0.002548	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	50	-2.62	-0.003708	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-30	-1.57	-0.002222	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-20	-2.55	-0.003609	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-10	-3.08	-0.004360	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	0	-3.81	-0.005393	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	10	-4.75	-0.006723	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	20	-6.24	-0.008832	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	30	-6.29	-0.008903	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	40	3.85	0.005449	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	50	2.69	0.003808	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-30	1.86	0.002620	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-20	2.03	0.002859	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-10	-2.33	-0.003282	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	0	-3.09	-0.004352	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	10	-4.16	-0.005859	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	20	-5.08	-0.007155	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	30	-5.06	-0.007127	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	40	-7.21	-0.010155	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	50	5.26	0.007408	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-30	3.78	0.005324	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-20	3.13	0.004408	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-10	2.88	0.004056	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	0	3.45	0.004859	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	10	3.60	0.005070	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	20	2.57	0.003620	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	30	2.83	0.003986	±2.5	PASS

Band17	5MHz	16QAM	23790	25RB#0	NV	40	2.78	0.003915	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	50	3.28	0.004620	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-30	4.82	0.006755	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-20	4.32	0.006055	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-10	1.70	0.002383	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	0	-1.39	-0.001948	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	10	-2.88	-0.004036	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	20	-3.92	-0.005494	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	30	-6.18	-0.008662	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	40	3.49	0.004891	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	50	4.09	0.005732	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-30	-3.72	-0.005214	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-20	-4.68	-0.006559	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-10	-4.65	-0.006517	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	0	-4.61	-0.006461	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	10	-4.75	-0.006657	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	20	-5.32	-0.007456	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	30	-5.32	-0.007456	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	40	-4.79	-0.006713	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	50	-4.59	-0.006433	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-3.02	-0.004260	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-2.49	-0.003512	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-1.10	-0.001551	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-2.27	-0.003202	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-1.92	-0.002708	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-1.86	-0.002623	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-1.19	-0.001678	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.22	-0.001721	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-1.57	-0.002214	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	2.47	0.003484	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	2.52	0.003554	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	3.18	0.004485	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	3.15	0.004443	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	3.13	0.004415	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-6.92	-0.009760	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-6.59	-0.009295	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-7.14	-0.010071	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-6.14	-0.008660	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-3.95	-0.005563	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-3.69	-0.005197	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-4.18	-0.005887	±2.5	PASS

Band17	10MHz	QPSK	23790	50RB#0	NV	0	-3.50	-0.004930	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-4.16	-0.005859	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-5.12	-0.007211	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-3.71	-0.005225	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-4.32	-0.006085	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-4.03	-0.005676	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-3.30	-0.004648	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-4.31	-0.006070	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-2.05	-0.002887	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-1.56	-0.002197	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-1.72	-0.002423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-1.07	-0.001507	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	1.52	0.002141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	2.68	0.003775	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	3.48	0.004895	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	3.18	0.004473	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	2.59	0.003643	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	3.40	0.004782	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	2.27	0.003193	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	2.82	0.003966	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	3.78	0.005316	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	3.39	0.004768	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	2.36	0.003319	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	3.18	0.004473	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	4.63	0.006512	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	4.13	0.005809	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	3.59	0.005049	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	4.39	0.006174	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-5.68	-0.007989	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-5.24	-0.007370	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-5.78	-0.008129	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-5.69	-0.008003	±2.5	PASS