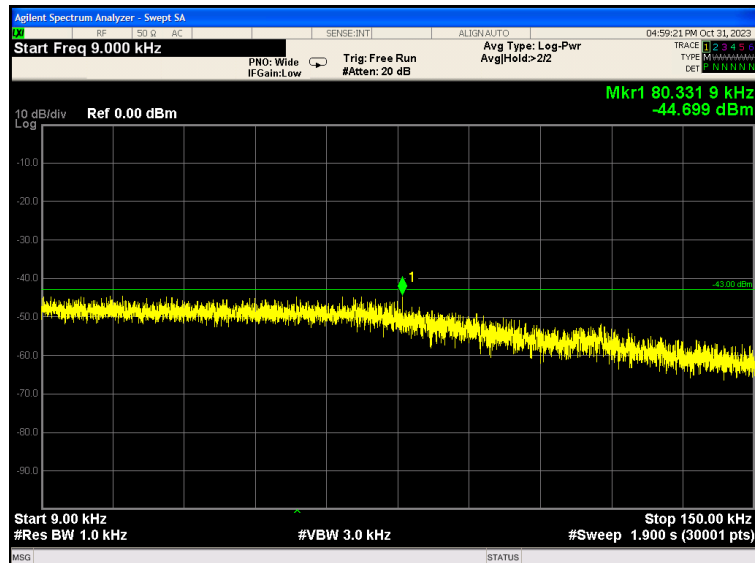
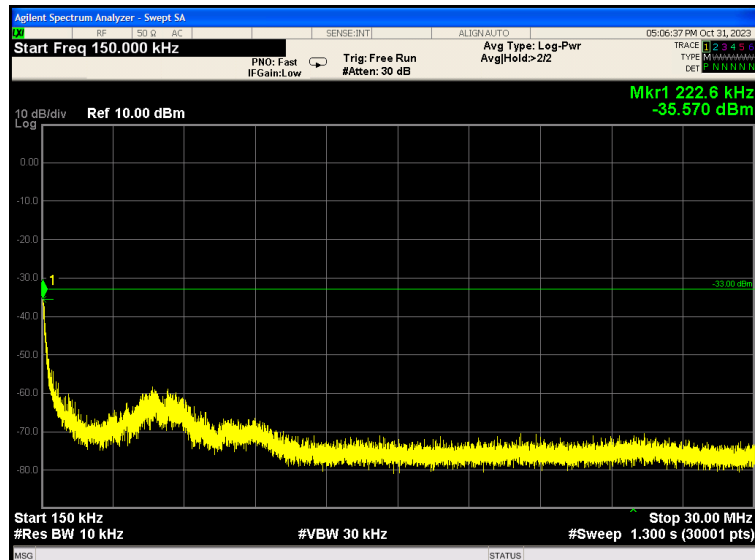


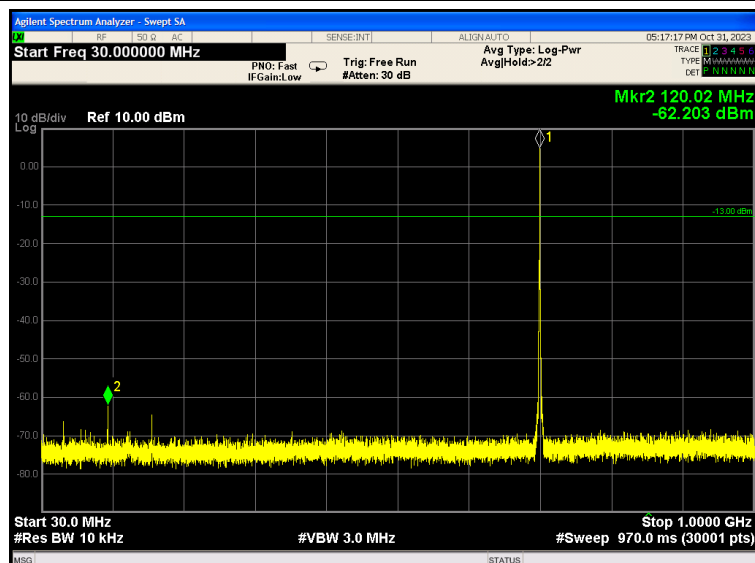
Band12_10MHz_16QAM_23095_1RB#24



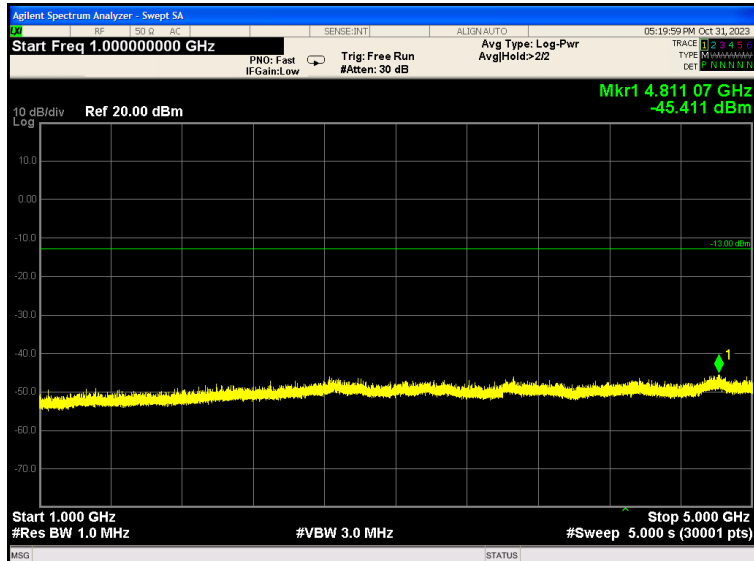
Band12_10MHz_16QAM_23095_1RB#24



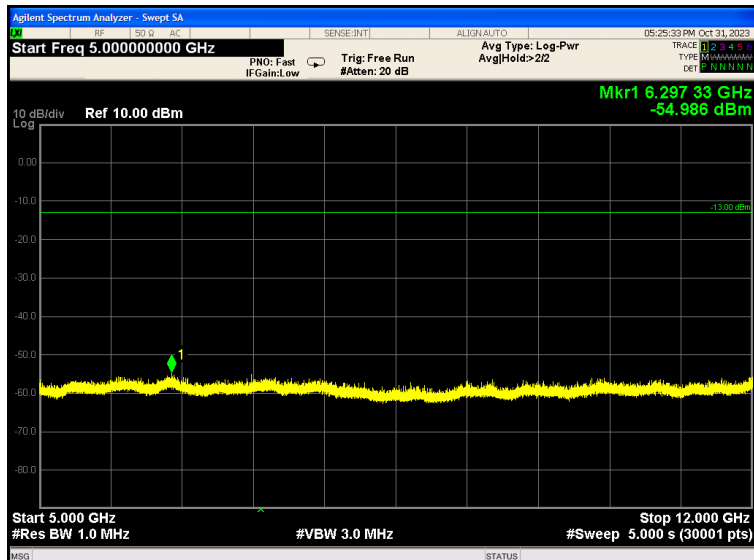
Band12_10MHz_16QAM_23095_1RB#24



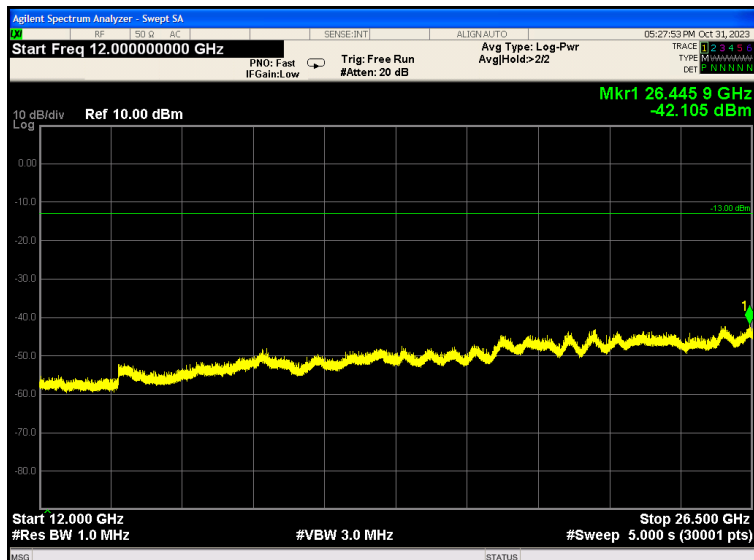
Band12_10MHz_16QAM_23095_1RB#24



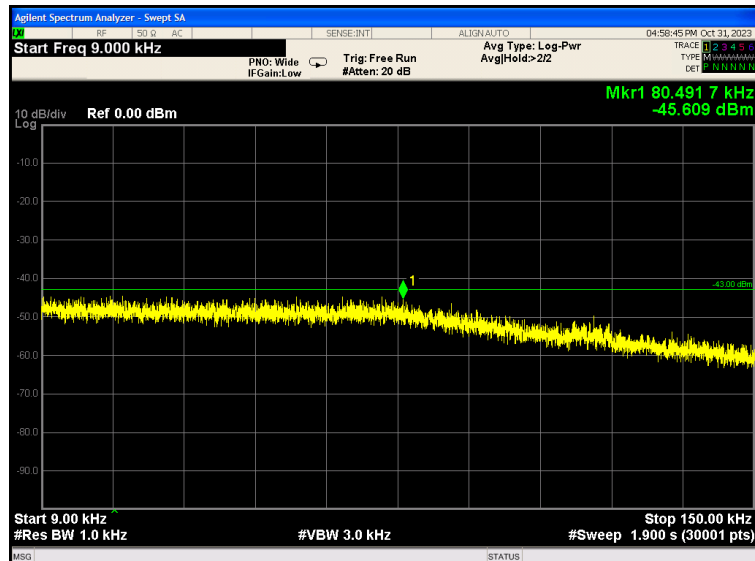
Band12_10MHz_16QAM_23095_1RB#24



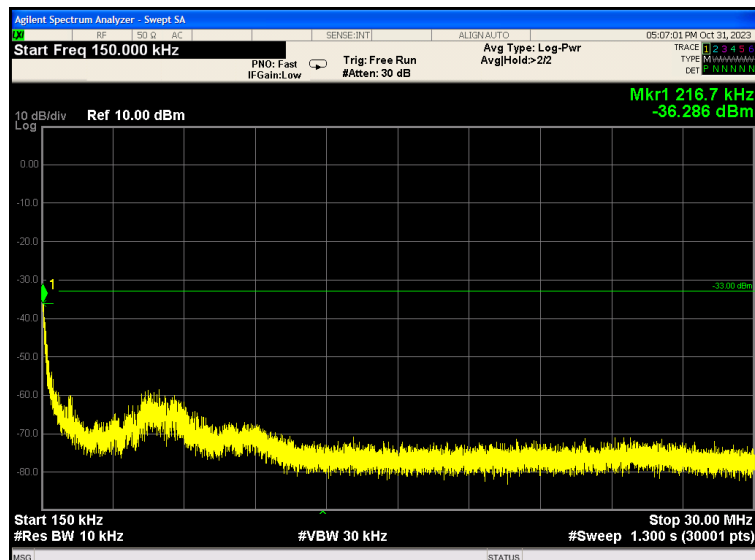
Band12_10MHz_16QAM_23095_1RB#24



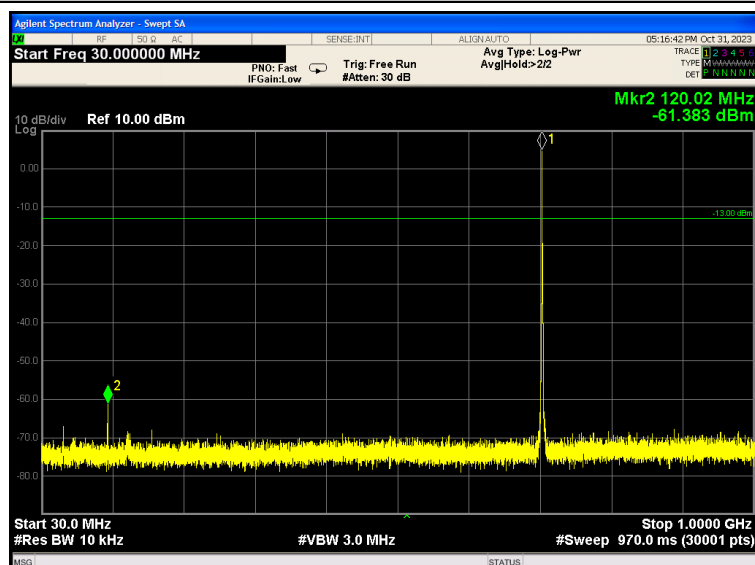
Band12_10MHz_16QAM_23130_1RB#24



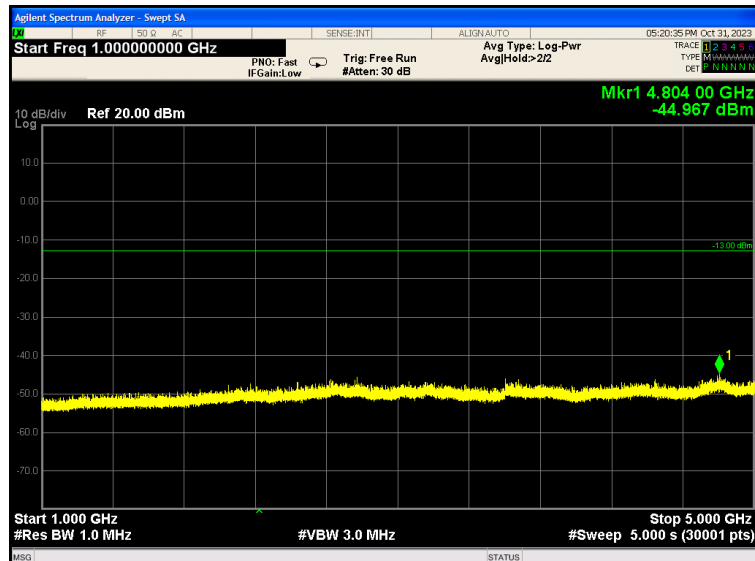
Band12_10MHz_16QAM_23130_1RB#24



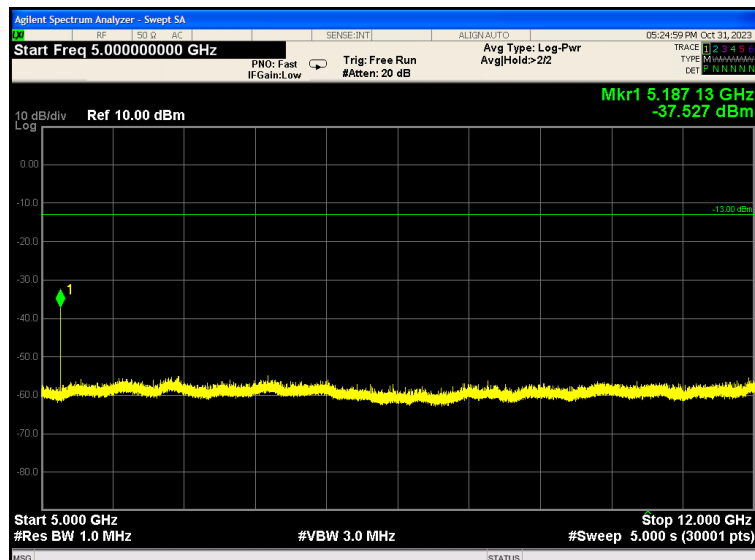
Band12_10MHz_16QAM_23130_1RB#24



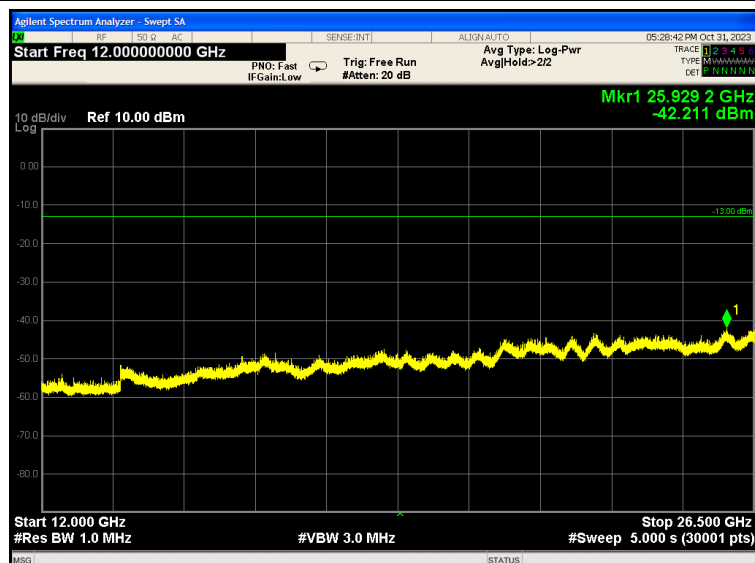
Band12_10MHz_16QAM_23130_1RB#24



Band12_10MHz_16QAM_23130_1RB#24



Band12_10MHz_16QAM_23130_1RB#24



Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage					
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	VL	NT	-8.52	0.012177	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	VN	NT	-11.54	0.016493	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	VH	NT	-6.69	0.009561	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	VL	NT	-13.08	0.018488	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	VN	NT	-3.69	0.005216	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	VH	NT	-9.46	0.013371	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	VL	NT	-8.01	0.011198	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	VN	NT	-8.31	0.011618	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	VH	NT	-8.23	0.011506	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	VL	NT	-6.19	0.008847	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	VN	NT	-10.11	0.014449	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	VH	NT	-6.83	0.009761	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	VL	NT	-1.58	0.002233	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	VN	NT	-9.76	0.013795	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	VH	NT	-9.31	0.013159	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	VL	NT	-5.92	0.008276	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	VN	NT	-1.57	0.002195	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	VH	NT	-1.78	0.002488	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VL	NT	-6.69	0.009550	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VN	NT	-7.72	0.011021	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VH	NT	-5.7	0.008137	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VL	NT	-7.14	0.010092	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VN	NT	-3.54	0.005004	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VH	NT	-5.95	0.008410	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VL	NT	-5.24	0.007334	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VN	NT	-7.66	0.010721	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VH	NT	-6.74	0.009433	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VL	NT	-8.17	0.011663	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VN	NT	-10.2	0.014561	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VH	NT	-4.87	0.006952	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VL	NT	-5.47	0.007731	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VN	NT	-9.66	0.013654	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VH	NT	-9.66	0.013654	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VL	NT	-8.81	0.012330	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VN	NT	-4.43	0.006200	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VH	NT	-5.54	0.007754	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VL	NT	-8.12	0.011575	±2.5	PASS

Band12	5MHz	QPSK	23035	25RB#0	VN	NT	-10.02	0.014284	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VH	NT	-4.24	0.006044	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VL	NT	-5.77	0.008155	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VN	NT	-5.74	0.008113	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VH	NT	-8.05	0.011378	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VL	NT	-6.77	0.009488	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VN	NT	-1.23	0.001724	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VH	NT	-6.48	0.009082	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VL	NT	-11.66	0.016622	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VN	NT	-3.74	0.005331	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VH	NT	-8.95	0.012758	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VL	NT	-7.04	0.009951	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VN	NT	-4.97	0.007025	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VH	NT	-10.13	0.014318	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VL	NT	-13.18	0.018472	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VN	NT	-10.73	0.015039	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VH	NT	-6.37	0.008928	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-7.46	0.010597	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-9.07	0.012884	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-13.45	0.019105	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-8.95	0.012650	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-6.33	0.008947	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-7.88	0.011138	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-5.95	0.008368	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-8.25	0.011603	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-11.52	0.016203	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-6.91	0.009815	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-4.11	0.005838	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-11.2	0.015909	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-12.8	0.018092	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-7.05	0.009965	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-9.71	0.013724	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-9.65	0.013572	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-8.66	0.012180	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-7.85	0.011041	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-30	-8.71	0.012448	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-20	-9.77	0.013963	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	0	-10.09	0.014420	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	10	-6.03	0.008618	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	20	-7.46	0.010662	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-30	-7.41	0.010473	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-20	-3.15	0.004452	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	0	-5.72	0.008085	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	10	-7.46	0.010544	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	20	-9.48	0.013399	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-30	-11.31	0.015812	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-20	-11.72	0.016385	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	0	-7.45	0.010415	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	10	-7.93	0.011086	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	20	-5.03	0.007032	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-30	-6.68	0.009547	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-20	-10.67	0.015249	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	0	-9.98	0.014263	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	10	-8.87	0.012677	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	20	-8.3	0.011862	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-30	-7.58	0.010714	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-20	-9.25	0.013074	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	0	-6.96	0.009837	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	10	-7.22	0.010205	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	20	-11.52	0.016283	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-30	-5.16	0.007214	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-20	-6.27	0.008766	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	0	-6.59	0.009213	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	10	-6.23	0.008710	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	20	-7.93	0.011086	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-30	-4.62	0.006595	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-20	-6.32	0.009022	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	0	-7.7	0.010992	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	10	-3.43	0.004897	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	20	-8.23	0.011749	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-30	-6.91	0.009767	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-20	-10.26	0.014502	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	0	-8.31	0.011746	±2.5	PASS

Band12	3MHz	QPSK	23095	15RB#0	NV	10	-3.59	0.005074	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	20	-7.19	0.010163	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-30	-9.56	0.013380	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-20	-9.21	0.012890	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	0	-9.51	0.013310	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	10	-5.3	0.007418	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	20	-6.19	0.008663	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-30	-5.15	0.007352	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-20	-9.98	0.014247	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	0	-5.86	0.008365	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	10	-5.81	0.008294	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	20	-6.8	0.009707	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-30	-12.42	0.017555	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-20	-7.68	0.010855	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	0	-4.53	0.006403	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	10	-9.28	0.013117	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	20	-7.04	0.009951	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-30	-3.47	0.004857	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-20	-3.3	0.004619	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	0	-6.38	0.008929	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	10	-7.31	0.010231	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	20	-3.88	0.005430	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-30	-10.93	0.015581	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-20	-8.16	0.011632	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	0	-8.98	0.012801	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	10	-5.5	0.007840	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	20	-3.26	0.004647	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-30	-6.71	0.009484	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-20	-2.65	0.003746	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	0	-7.19	0.010163	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	10	-9.62	0.013597	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	20	-11.46	0.016198	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-30	-3.89	0.005452	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-20	-4.43	0.006209	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	0	-7.27	0.010189	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	10	-7.84	0.010988	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	20	-8.37	0.011731	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-30	-7.17	0.010221	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-20	-7.22	0.010292	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	0	-6.19	0.008824	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	10	-6.58	0.009380	±2.5	PASS

Band12	5MHz	16QAM	23035	25RB#0	NV	20	-5.13	0.007313	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-30	-7.62	0.010770	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-20	-7.09	0.010021	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	0	-9.43	0.013329	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	10	-3.7	0.005230	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	20	-8.83	0.012481	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-30	-4.23	0.005929	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-20	-5.96	0.008353	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	0	-10.21	0.014310	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	10	-8.58	0.012025	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	20	-5.97	0.008367	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-10.03	0.014247	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-6.94	0.009858	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-10.68	0.015170	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-7.08	0.010057	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-7.62	0.010824	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-4.84	0.006841	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-3.92	0.005541	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-5.46	0.007717	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.33	0.008947	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-7.82	0.011053	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-11.07	0.015570	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-9.1	0.012799	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-7.17	0.010084	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-9.16	0.012883	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-7.63	0.010731	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-10.17	0.014446	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-5.69	0.008082	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-8.37	0.011889	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-8.06	0.011449	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-9.79	0.013906	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-7.48	0.010572	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-9.8	0.013852	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-7.63	0.010784	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-9.5	0.013428	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-8.69	0.012283	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-4.02	0.005654	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-14.58	0.020506	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-12.14	0.017075	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-9.28	0.013052	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-5.69	0.008003	±2.5	PASS