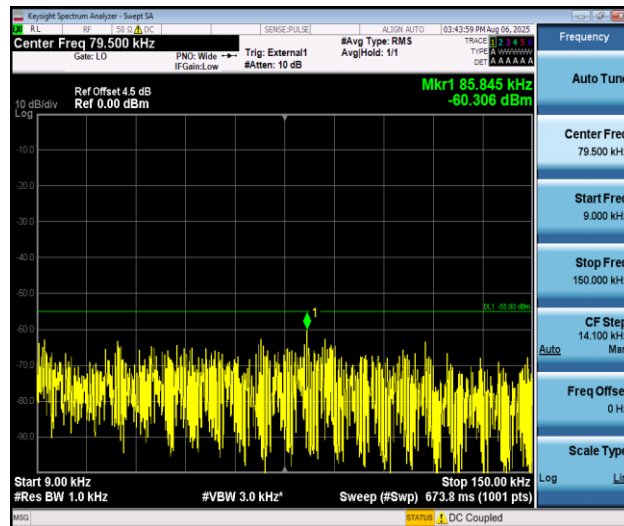
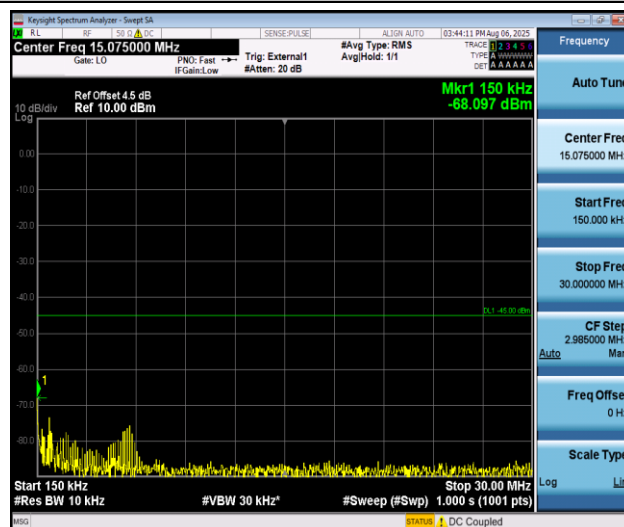




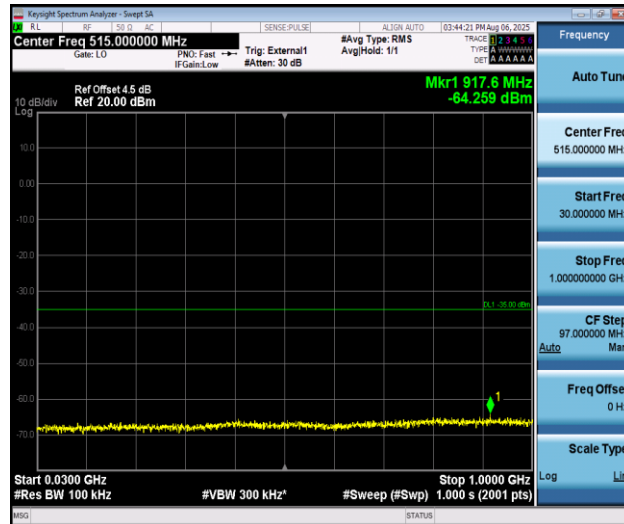
Band38_20MHz_QPSK_38150_1RB#0_20000~27000_20000~27000



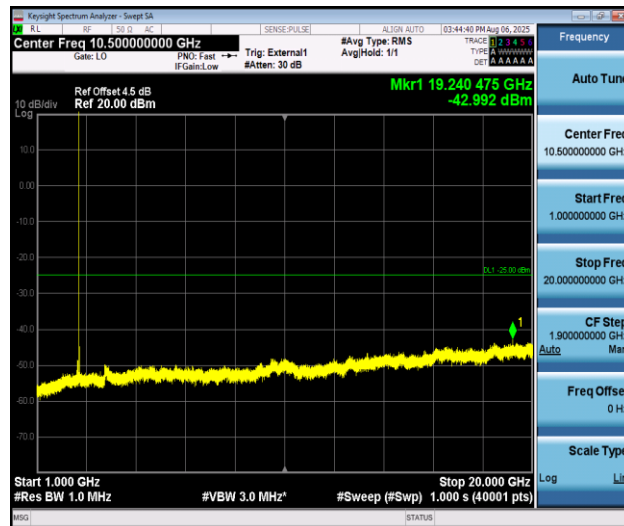
Band38_20MHz_16QAM_38150_1RB#0_0.009~0.15_0.009~0.15



Band38_20MHz_16QAM_38150_1RB#0_0.15~30_0.15~30



Band38_20MHz_16QAM_38150_1RB#0_30~1000_30~1000



Band38_20MHz_16QAM_38150_1RB#0_1000~20000_1000~20000



Band38_20MHz_16QAM_38150_1RB#0_20000~27000_20000~27000

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	VN	NT	-23.89	-0.009287	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VL	NT	11.26	0.004377	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VH	NT	12.76	0.004960	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VN	NT	-23.36	-0.009081	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VL	NT	-35.96	-0.013979	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VH	NT	-24.79	-0.009637	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VN	NT	-36.66	-0.014127	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VL	NT	-19.74	-0.007607	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VH	NT	17.54	0.006759	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VN	NT	-18.65	-0.007187	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VL	NT	-31.30	-0.012062	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VH	NT	-26.65	-0.010270	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VN	NT	-38.27	-0.014621	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VL	NT	-10.13	-0.003870	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VH	NT	6.52	0.002491	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VN	NT	20.00	0.007641	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VL	NT	11.13	0.004252	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VH	NT	10.94	0.004180	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VN	NT	-36.98	-0.014361	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VL	NT	-32.30	-0.012544	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VH	NT	-30.70	-0.011922	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VN	NT	-34.06	-0.013125	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VL	NT	-21.76	-0.008385	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VH	NT	-9.41	-0.003626	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VN	NT	-32.63	-0.012478	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VL	NT	-24.35	-0.009312	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VH	NT	-32.87	-0.012570	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VN	NT	-26.52	-0.010289	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VL	NT	-29.53	-0.011457	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VH	NT	-21.84	-0.008473	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VN	NT	-41.97	-0.016173	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VL	NT	-20.08	-0.007738	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VH	NT	-28.94	-0.011152	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VN	NT	-30.87	-0.011816	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VL	NT	-27.02	-0.010343	±2.5	PASS

Band38	15MHz	QPSK	38175	75RB#0	VH	NT	-30.38	-0.011629	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-33.23	-0.012880	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-24.09	-0.009337	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-28.81	-0.011167	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-36.09	-0.013908	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-30.66	-0.011815	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-19.14	-0.007376	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-37.89	-0.014517	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-23.15	-0.008870	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-27.07	-0.010372	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	NV	-30	12.10	0.004704	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-20	18.41	0.007156	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-10	8.01	0.003114	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	0	-15.35	-0.005967	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	10	20.61	0.008012	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	20	16.55	0.006433	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	30	8.01	0.003114	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	40	-18.88	-0.007339	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	50	-7.42	-0.002884	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-30	-24.03	-0.009341	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-20	-23.76	-0.009236	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-10	7.25	0.002818	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	0	-10.43	-0.004054	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	10	-18.37	-0.007141	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	20	-20.93	-0.008136	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	30	-19.58	-0.007611	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	40	-17.61	-0.006845	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	50	-6.91	-0.002686	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-30	10.00	0.003854	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-20	26.18	0.010089	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-10	6.51	0.002509	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	0	16.98	0.006543	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	10	16.06	0.006189	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	20	14.13	0.005445	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	30	18.55	0.007148	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	40	-20.13	-0.007757	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	50	-14.42	-0.005557	±2.5	PASS

Band38	5MHz	16QAM	38000	25RB#0	NV	-30	-21.53	-0.008297	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-20	-24.26	-0.009349	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-10	11.47	0.004420	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	0	8.21	0.003164	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	10	-7.25	-0.002794	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	20	4.23	0.001630	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	30	-16.95	-0.006532	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	40	-14.81	-0.005707	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	50	-13.69	-0.005276	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-30	23.49	0.008974	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-20	11.79	0.004504	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-10	8.40	0.003209	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	0	-14.28	-0.005456	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	10	13.16	0.005028	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	20	18.78	0.007175	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	30	10.26	0.003920	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	40	15.66	0.005983	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	50	-12.53	-0.004787	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-30	20.41	0.007798	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-20	-13.90	-0.005310	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-10	-18.31	-0.006995	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	0	-17.60	-0.006724	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	10	-11.07	-0.004229	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	20	-20.97	-0.008011	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	30	-24.36	-0.009307	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	40	10.63	0.004061	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	50	-17.95	-0.006858	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-30	-33.45	-0.012990	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-20	-31.91	-0.012392	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-10	-27.08	-0.010517	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	0	-27.95	-0.010854	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	10	-28.71	-0.011150	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	20	-33.80	-0.013126	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	30	-27.42	-0.010649	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	40	-19.31	-0.007499	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	50	-20.11	-0.007810	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-30	-11.14	-0.004293	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-20	-13.42	-0.005171	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-10	-22.16	-0.008539	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	0	-20.97	-0.008081	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	10	-31.86	-0.012277	±2.5	PASS

Band38	10MHz	QPSK	38000	50RB#0	NV	20	-21.67	-0.008351	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	30	-30.97	-0.011934	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	40	-26.88	-0.010358	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	50	-16.28	-0.006274	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-30	-28.70	-0.010975	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-20	-29.43	-0.011254	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-10	-27.91	-0.010673	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	0	-28.34	-0.010837	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	10	-29.50	-0.011281	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	20	-26.08	-0.009973	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	30	-26.02	-0.009950	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	40	-34.95	-0.013365	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	50	-24.20	-0.009254	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-30	-30.44	-0.011810	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-20	-22.30	-0.008652	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-10	-24.73	-0.009595	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	0	-26.45	-0.010262	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	10	-27.61	-0.010712	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	20	-29.80	-0.011562	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	30	-19.68	-0.007635	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	40	-23.82	-0.009242	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	50	-25.19	-0.009773	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-30	-23.92	-0.009218	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-20	-24.43	-0.009414	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-10	-22.20	-0.008555	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	0	-28.98	-0.011168	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	10	-21.27	-0.008197	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	20	-24.66	-0.009503	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	30	-11.82	-0.004555	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	40	-20.04	-0.007723	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	50	-9.04	-0.003484	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-30	-30.51	-0.011678	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-20	-13.10	-0.005014	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-10	-27.69	-0.010599	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	0	-33.63	-0.012873	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	10	-25.41	-0.009726	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	20	-26.34	-0.010082	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	30	-20.77	-0.007950	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	40	-13.16	-0.005037	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	50	-9.03	-0.003456	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-21.63	-0.008384	±2.5	PASS

Band38	20MHz	QPSK	37850	100RB#0	NV	-20	10.97	0.004252	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-6.57	-0.002547	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	9.68	0.003752	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-17.72	-0.006868	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-6.78	-0.002628	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-24.39	-0.009453	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-9.70	-0.003760	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-15.75	-0.006105	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-23.02	-0.008871	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-18.30	-0.007052	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-20.97	-0.008081	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-14.05	-0.005414	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-7.08	-0.002728	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-16.12	-0.006212	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-13.58	-0.005233	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-15.91	-0.006131	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-19.45	-0.007495	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-22.40	-0.008582	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-17.68	-0.006774	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-26.14	-0.010015	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-24.33	-0.009322	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-11.86	-0.004544	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	5.99	0.002295	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	7.25	0.002778	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-11.46	-0.004391	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-14.23	-0.005452	±2.5	PASS