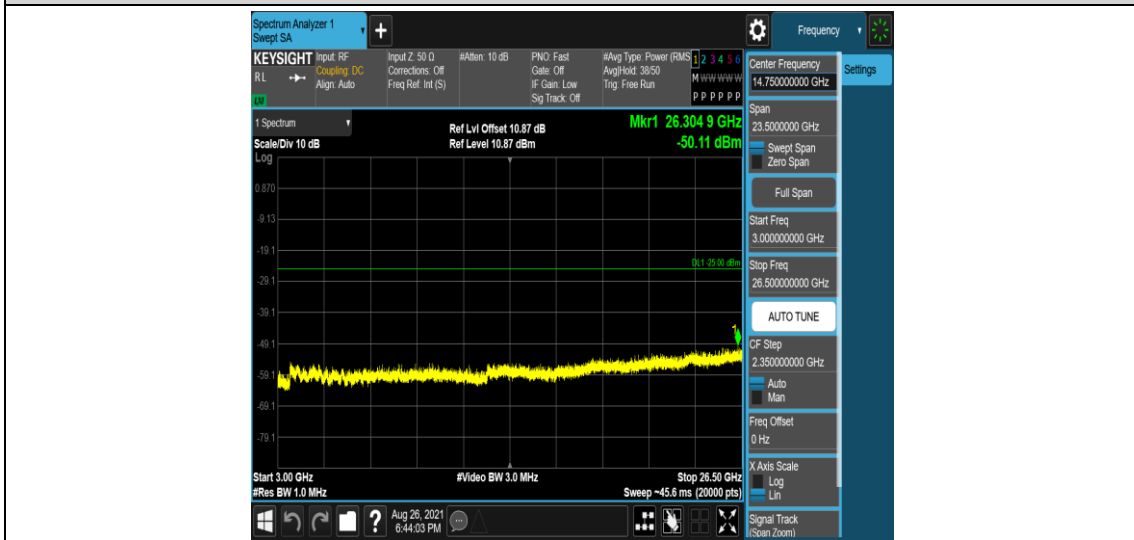


Band38-20MHz-16QAM-38000-1RB#0-Range5:3000~26500MHz



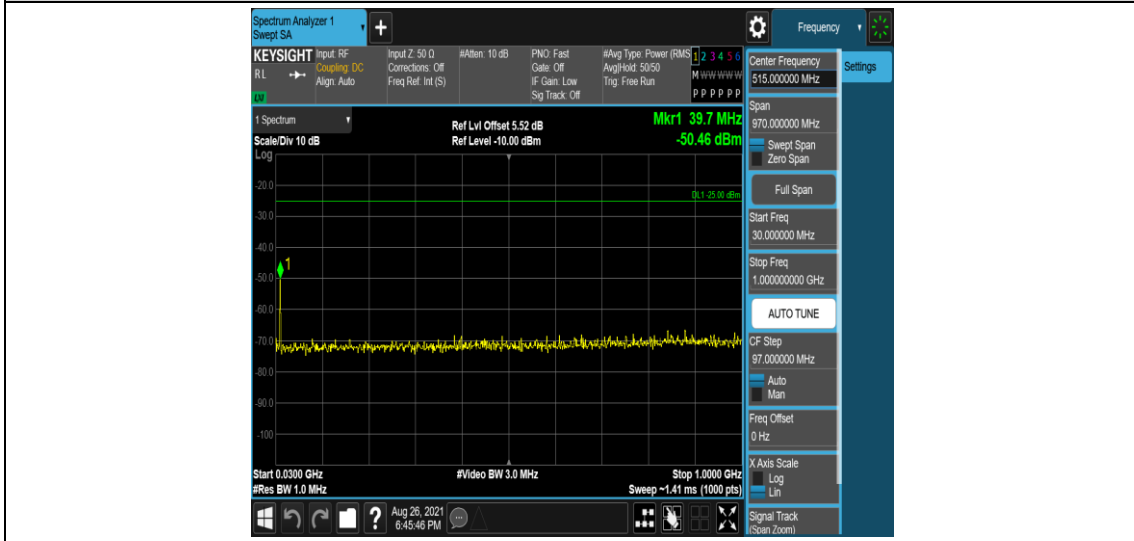
Band38-20MHz-16QAM-38150-1RB#0-Range1:0.009~0.15MHz



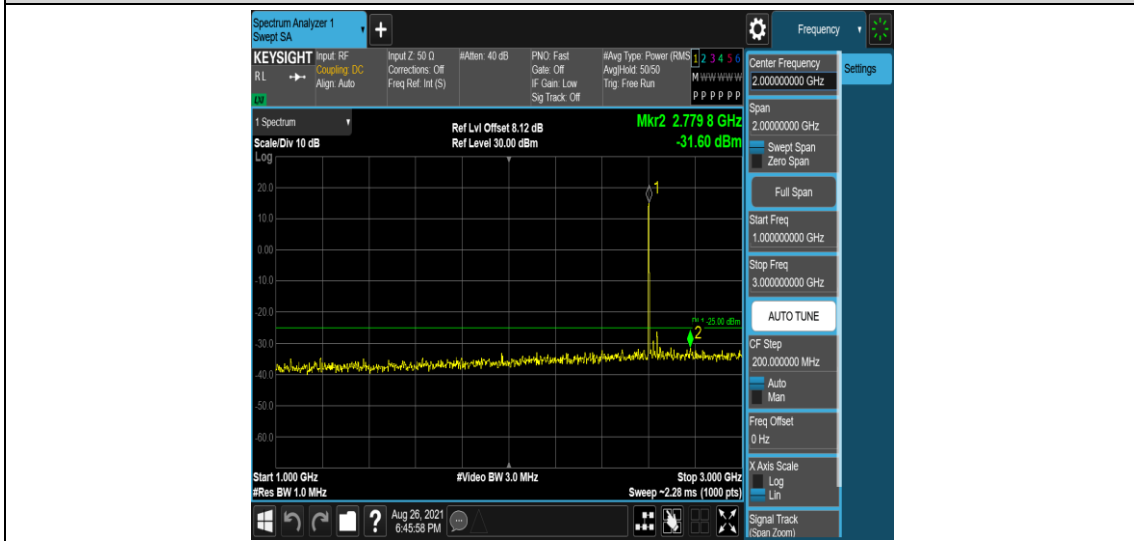
Band38-20MHz-16QAM-38150-1RB#0-Range2:0.15~30MHz



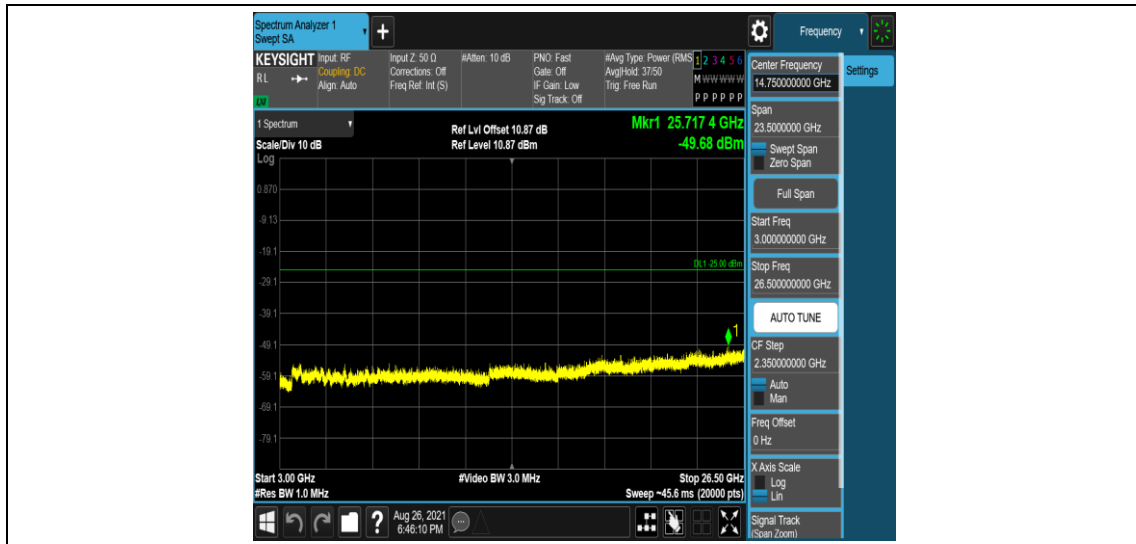
Band38-20MHz-16QAM-38150-1RB#0-Range3:30~1000MHz



Band38-20MHz-16QAM-38150-1RB#0-Range4:1000~3000MHz



Band38-20MHz-16QAM-38150-1RB#0-Range5:3000~26500MHz



Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band38	5MHz	QPSK	37775	25RB#0	VL	NT	-8.70	-0.003382	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VN	NT	-18.07	-0.007024	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VH	NT	-25.51	-0.009916	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VL	NT	246.45	0.094971	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VN	NT	237.84	0.091653	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VH	NT	251.53	0.096929	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VL	NT	8.20	0.003133	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VN	NT	12.45	0.004756	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VH	NT	12.13	0.004634	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VL	NT	-33.86	-0.013162	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VN	NT	-31.87	-0.012389	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VH	NT	-38.15	-0.014830	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VL	NT	372.46	0.143530	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VN	NT	353.48	0.136216	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VH	NT	383.98	0.147969	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VL	NT	54.72	0.020905	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VN	NT	57.86	0.022105	±2.5	PASS

Band3 8	5MHz	16QAM	38225	25RB#0	VH	NT	59.35	0.022674	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	VL	NT	-6.41	-0.002489	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	VN	NT	-18.18	-0.007060	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	VH	NT	-16.44	-0.006384	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	VL	NT	-13.76	-0.005303	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	VN	NT	-5.38	-0.002073	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	VH	NT	-19.73	-0.007603	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	VL	NT	-15.44	-0.005904	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	VN	NT	-5.36	-0.002050	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	VH	NT	-18.31	-0.007002	±2.5	PASS
Band3 8	10MHz	16QAM	37800	50RB#0	VL	NT	-23.30	-0.009049	±2.5	PASS
Band3 8	10MHz	16QAM	37800	50RB#0	VN	NT	-16.77	-0.006513	±2.5	PASS
Band3 8	10MHz	16QAM	37800	50RB#0	VH	NT	-19.33	-0.007507	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	VL	NT	38.54	0.014852	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	VN	NT	-11.19	-0.004312	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	VH	NT	-19.94	-0.007684	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	VL	NT	-70.54	-0.026975	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	VN	NT	-9.81	-0.003751	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	VH	NT	11.82	0.004520	±2.5	PASS
Band3 8	15MHz	QPSK	37825	75RB#0	VL	NT	-19.41	-0.007531	±2.5	PASS
Band3 8	15MHz	QPSK	37825	75RB#0	VN	NT	-21.82	-0.008466	±2.5	PASS

Band3 8	15MHz	QPSK	37825	75RB#0	VH	NT	-27.85	-0.010805	±2.5	PASS
Band3 8	15MHz	QPSK	38000	75RB#0	VL	NT	-20.74	-0.007992	±2.5	PASS
Band3 8	15MHz	QPSK	38000	75RB#0	VN	NT	-26.84	-0.010343	±2.5	PASS
Band3 8	15MHz	QPSK	38000	75RB#0	VH	NT	-29.08	-0.011206	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	VL	NT	-20.06	-0.007678	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	VN	NT	-5.91	-0.002262	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	VH	NT	-94.24	-0.036073	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	VL	NT	-18.91	-0.007337	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	VN	NT	-15.96	-0.006192	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	VH	NT	-22.54	-0.008745	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	VL	NT	-13.33	-0.005137	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	VN	NT	-26.54	-0.010227	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	VH	NT	-20.97	-0.008081	±2.5	PASS
Band3 8	15MHz	16QAM	38175	75RB#0	VL	NT	-9.00	-0.003445	±2.5	PASS
Band3 8	15MHz	16QAM	38175	75RB#0	VN	NT	-14.88	-0.005696	±2.5	PASS
Band3 8	15MHz	16QAM	38175	75RB#0	VH	NT	-21.50	-0.008230	±2.5	PASS
Band3 8	20MHz	QPSK	37850	100RB#0	VL	NT	-15.41	-0.005973	±2.5	PASS
Band3 8	20MHz	QPSK	37850	100RB#0	VN	NT	-23.79	-0.009221	±2.5	PASS
Band3 8	20MHz	QPSK	37850	100RB#0	VH	NT	-16.42	-0.006364	±2.5	PASS
Band3 8	20MHz	QPSK	38000	100RB#0	VL	NT	-13.86	-0.005341	±2.5	PASS
Band3 8	20MHz	QPSK	38000	100RB#0	VN	NT	-21.50	-0.008285	±2.5	PASS

Band3 8	20MHz	QPSK	38000	100RB#0	VH	NT	-9.88	-0.003807	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	VL	NT	-10.87	-0.004165	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	VN	NT	-25.13	-0.009628	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	VH	NT	-22.57	-0.008648	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	VL	NT	-13.46	-0.005217	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	VN	NT	-18.11	-0.007019	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	VH	NT	-13.76	-0.005333	±2.5	PASS
Band3 8	20MHz	16QAM	38000	100RB#0	VL	NT	9.04	0.003484	±2.5	PASS
Band3 8	20MHz	16QAM	38000	100RB#0	VN	NT	10.66	0.004108	±2.5	PASS
Band3 8	20MHz	16QAM	38000	100RB#0	VH	NT	-15.91	-0.006131	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	VL	NT	-14.52	-0.005563	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	VN	NT	-8.18	-0.003134	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	VH	NT	-20.16	-0.007724	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band3 8	5MHz	QPSK	37775	25RB#0	NV	-30	-96.29	-0.037431	±2.5	PASS
Band3 8	5MHz	QPSK	37775	25RB#0	NV	-20	-39.51	-0.015359	±2.5	PASS
Band3 8	5MHz	QPSK	37775	25RB#0	NV	0	-38.47	-0.014954	±2.5	PASS
Band3 8	5MHz	QPSK	37775	25RB#0	NV	10	-50.15	-0.019495	±2.5	PASS
Band3 8	5MHz	QPSK	37775	25RB#0	NV	20	-60.22	-0.023409	±2.5	PASS
Band3	5MHz	QPSK	38000	25RB#0	NV	-30	256.61	0.098886	±2.5	PASS

8										
Band3 8	5MHz	QPSK	38000	25RB#0	NV	-20	264.00	0.101734	±2.5	PASS
Band3 8	5MHz	QPSK	38000	25RB#0	NV	0	270.51	0.104243	±2.5	PASS
Band3 8	5MHz	QPSK	38000	25RB#0	NV	10	268.19	0.103349	±2.5	PASS
Band3 8	5MHz	QPSK	38000	25RB#0	NV	20	285.52	0.110027	±2.5	PASS
Band3 8	5MHz	QPSK	38225	25RB#0	NV	-30	18.38	0.007022	±2.5	PASS
Band3 8	5MHz	QPSK	38225	25RB#0	NV	-20	30.01	0.011465	±2.5	PASS
Band3 8	5MHz	QPSK	38225	25RB#0	NV	0	32.06	0.012248	±2.5	PASS
Band3 8	5MHz	QPSK	38225	25RB#0	NV	10	38.19	0.014590	±2.5	PASS
Band3 8	5MHz	QPSK	38225	25RB#0	NV	20	37.45	0.014308	±2.5	PASS
Band3 8	5MHz	16QAM	37775	25RB#0	NV	-30	-25.31	-0.009839	±2.5	PASS
Band3 8	5MHz	16QAM	37775	25RB#0	NV	-20	-23.82	-0.009259	±2.5	PASS
Band3 8	5MHz	16QAM	37775	25RB#0	NV	0	-24.33	-0.009458	±2.5	PASS
Band3 8	5MHz	16QAM	37775	25RB#0	NV	10	-25.29	-0.009831	±2.5	PASS
Band3 8	5MHz	16QAM	37775	25RB#0	NV	20	-29.37	-0.011417	±2.5	PASS
Band3 8	5MHz	16QAM	38000	25RB#0	NV	-30	387.20	0.149210	±2.5	PASS
Band3 8	5MHz	16QAM	38000	25RB#0	NV	-20	387.54	0.149341	±2.5	PASS
Band3 8	5MHz	16QAM	38000	25RB#0	NV	0	396.75	0.152890	±2.5	PASS
Band3 8	5MHz	16QAM	38000	25RB#0	NV	10	404.73	0.155965	±2.5	PASS
Band3 8	5MHz	16QAM	38000	25RB#0	NV	20	412.85	0.159094	±2.5	PASS
Band3 8	5MHz	16QAM	38225	25RB#0	NV	-30	62.11	0.023729	±2.5	PASS
Band3	5MHz	16QAM	38225	25RB#0	NV	-20	50.15	0.019160	±2.5	PASS

8										
Band3 8	5MHz	16QAM	38225	25RB#0	NV	0	65.73	0.025112	±2.5	PASS
Band3 8	5MHz	16QAM	38225	25RB#0	NV	10	492.37	0.188107	±2.5	PASS
Band3 8	5MHz	16QAM	38225	25RB#0	NV	20	495.92	0.189463	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	NV	-30	-14.86	-0.005771	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	NV	-20	-12.49	-0.004850	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	NV	0	9.90	0.003845	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	NV	10	8.81	0.003421	±2.5	PASS
Band3 8	10MHz	QPSK	37800	50RB#0	NV	20	-9.98	-0.003876	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	NV	-30	-22.10	-0.008516	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	NV	-20	-17.78	-0.006852	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	NV	0	-14.76	-0.005688	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	NV	10	-18.22	-0.007021	±2.5	PASS
Band3 8	10MHz	QPSK	38000	50RB#0	NV	20	-4.42	-0.001703	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	NV	-30	-12.27	-0.004692	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	NV	-20	-15.54	-0.005943	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	NV	0	9.97	0.003813	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	NV	10	15.18	0.005805	±2.5	PASS
Band3 8	10MHz	QPSK	38200	50RB#0	NV	20	3.19	0.001220	±2.5	PASS
Band3 8	10MHz	16QAM	37800	50RB#0	NV	-30	-23.27	-0.009037	±2.5	PASS
Band3 8	10MHz	16QAM	37800	50RB#0	NV	-20	-21.97	-0.008532	±2.5	PASS
Band3	10MHz	16QAM	37800	50RB#0	NV	0	-16.52	-0.006416	±2.5	PASS

8										
Band3 8	10MHz	16QAM	37800	50RB#0	NV	10	-5.76	-0.002237	±2.5	PASS
Band3 8	10MHz	16QAM	37800	50RB#0	NV	20	-17.27	-0.006707	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	NV	-30	-14.91	-0.005746	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	NV	-20	-20.69	-0.007973	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	NV	0	-20.96	-0.008077	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	NV	10	-6.18	-0.002382	±2.5	PASS
Band3 8	10MHz	16QAM	38000	50RB#0	NV	20	8.50	0.003276	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	NV	-30	-7.20	-0.002753	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	NV	-20	-18.88	-0.007220	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	NV	0	-18.47	-0.007063	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	NV	10	-8.63	-0.003300	±2.5	PASS
Band3 8	10MHz	16QAM	38200	50RB#0	NV	20	-12.19	-0.004662	±2.5	PASS
Band3 8	15MHz	QPSK	37825	75RB#0	NV	-30	-22.97	-0.008912	±2.5	PASS
Band3 8	15MHz	QPSK	37825	75RB#0	NV	-20	-22.47	-0.008718	±2.5	PASS
Band3 8	15MHz	QPSK	37825	75RB#0	NV	0	-14.38	-0.005579	±2.5	PASS
Band3 8	15MHz	QPSK	37825	75RB#0	NV	10	-14.48	-0.005618	±2.5	PASS
Band3 8	15MHz	QPSK	37825	75RB#0	NV	20	-15.81	-0.006134	±2.5	PASS
Band3 8	15MHz	QPSK	38000	75RB#0	NV	-30	-25.28	-0.009742	±2.5	PASS
Band3 8	15MHz	QPSK	38000	75RB#0	NV	-20	-14.43	-0.005561	±2.5	PASS
Band3 8	15MHz	QPSK	38000	75RB#0	NV	0	9.67	0.003726	±2.5	PASS
Band3	15MHz	QPSK	38000	75RB#0	NV	10	7.02	0.002705	±2.5	PASS

8										
Band3 8	15MHz	QPSK	38000	75RB#0	NV	20	-5.08	-0.001958	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	NV	-30	-10.36	-0.003966	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	NV	-20	-8.51	-0.003257	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	NV	0	-18.05	-0.006909	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	NV	10	-14.45	-0.005531	±2.5	PASS
Band3 8	15MHz	QPSK	38175	75RB#0	NV	20	-12.99	-0.004972	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	NV	-30	-8.77	-0.003403	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	NV	-20	-22.30	-0.008652	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	NV	0	-20.99	-0.008144	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	NV	10	-19.84	-0.007697	±2.5	PASS
Band3 8	15MHz	16QAM	37825	75RB#0	NV	20	-22.90	-0.008885	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	NV	-30	-30.73	-0.011842	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	NV	-20	-26.41	-0.010177	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	NV	0	-11.14	-0.004293	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	NV	10	-24.56	-0.009464	±2.5	PASS
Band3 8	15MHz	16QAM	38000	75RB#0	NV	20	-22.57	-0.008697	±2.5	PASS
Band3 8	15MHz	16QAM	38175	75RB#0	NV	-30	-11.23	-0.004299	±2.5	PASS
Band3 8	15MHz	16QAM	38175	75RB#0	NV	-20	11.19	0.004283	±2.5	PASS
Band3 8	15MHz	16QAM	38175	75RB#0	NV	0	-14.85	-0.005684	±2.5	PASS
Band3 8	15MHz	16QAM	38175	75RB#0	NV	10	-12.33	-0.004720	±2.5	PASS
Band3	15MHz	16QAM	38175	75RB#0	NV	20	-24.20	-0.009263	±2.5	PASS

8										
Band3 8	20MHz	QPSK	37850	100RB#0	NV	-30	-8.53	-0.003306	±2.5	PASS
Band3 8	20MHz	QPSK	37850	100RB#0	NV	-20	4.52	0.001752	±2.5	PASS
Band3 8	20MHz	QPSK	37850	100RB#0	NV	0	-15.35	-0.005950	±2.5	PASS
Band3 8	20MHz	QPSK	37850	100RB#0	NV	10	-12.73	-0.004934	±2.5	PASS
Band3 8	20MHz	QPSK	37850	100RB#0	NV	20	-9.56	-0.003705	±2.5	PASS
Band3 8	20MHz	QPSK	38000	100RB#0	NV	-30	-14.96	-0.005765	±2.5	PASS
Band3 8	20MHz	QPSK	38000	100RB#0	NV	-20	-16.25	-0.006262	±2.5	PASS
Band3 8	20MHz	QPSK	38000	100RB#0	NV	0	-4.11	-0.001584	±2.5	PASS
Band3 8	20MHz	QPSK	38000	100RB#0	NV	10	-8.20	-0.003160	±2.5	PASS
Band3 8	20MHz	QPSK	38000	100RB#0	NV	20	-12.72	-0.004902	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	NV	-30	-11.72	-0.004490	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	NV	-20	-20.67	-0.007920	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	NV	0	-6.45	-0.002471	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	NV	10	-17.85	-0.006839	±2.5	PASS
Band3 8	20MHz	QPSK	38150	100RB#0	NV	20	-19.60	-0.007510	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	NV	-30	-14.71	-0.005702	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	NV	-20	-23.78	-0.009217	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	NV	0	-7.52	-0.002915	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	NV	10	-15.66	-0.006070	±2.5	PASS
Band3 8	20MHz	16QAM	37850	100RB#0	NV	20	-18.08	-0.007008	±2.5	PASS
Band3	20MHz	16QAM	38000	100RB#0	NV	-30	-17.54	-0.006759	±2.5	PASS

8										
Band3 8	20MHz	16QAM	38000	100RB#0	NV	-20	10.51	0.004050	±2.5	PASS
Band3 8	20MHz	16QAM	38000	100RB#0	NV	0	11.94	0.004601	±2.5	PASS
Band3 8	20MHz	16QAM	38000	100RB#0	NV	10	-9.47	-0.003649	±2.5	PASS
Band3 8	20MHz	16QAM	38000	100RB#0	NV	20	-8.37	-0.003225	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	NV	-30	154.77	0.059299	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	NV	-20	-18.04	-0.006912	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	NV	0	-17.84	-0.006835	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	NV	10	-16.29	-0.006241	±2.5	PASS
Band3 8	20MHz	16QAM	38150	100RB#0	NV	20	-19.56	-0.007494	±2.5	PASS