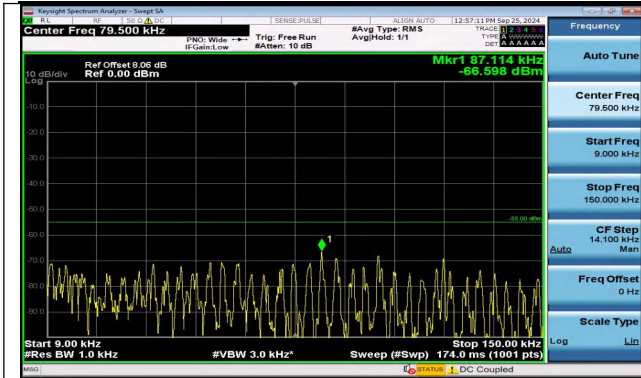
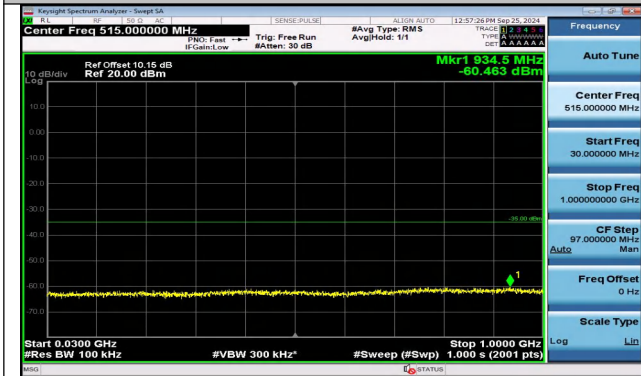




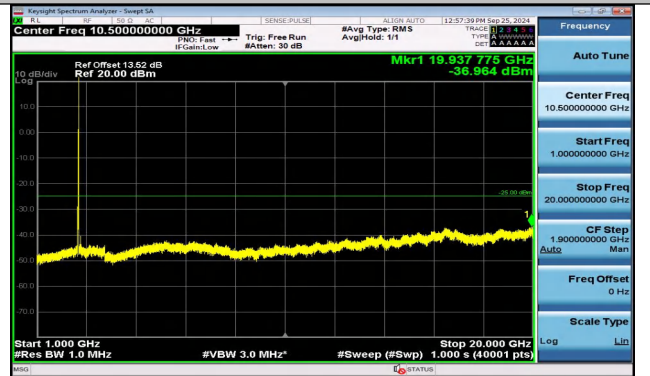
Band38_20MHz_QPSK_37850_1RB#99_0.009~0.15_0.00
9~0.15



Band38_20MHz_QPSK_37850_1RB#99_0.15~30_0.15~3
0



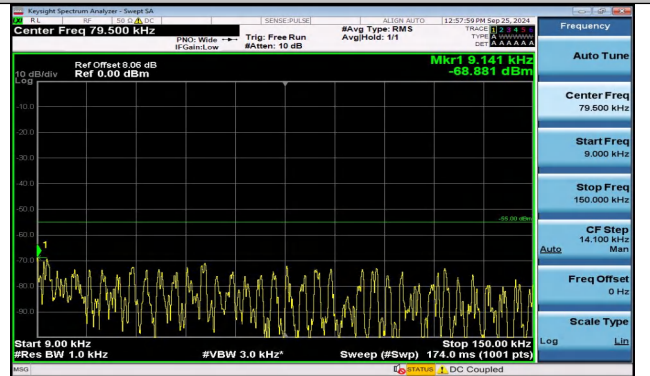
Band38_20MHz_QPSK_37850_1RB#99_30~1000_30~10
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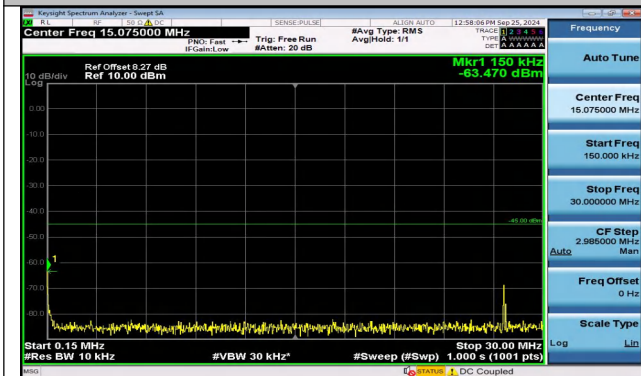
Band38_20MHz_QPSK_37850_1RB#99_1000~20000_10
00~20000



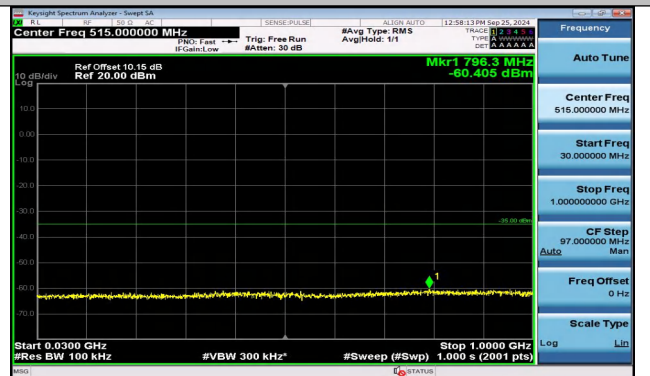
Band38_20MHz_QPSK_37850_1RB#99_20000~27000_2
0000~27000



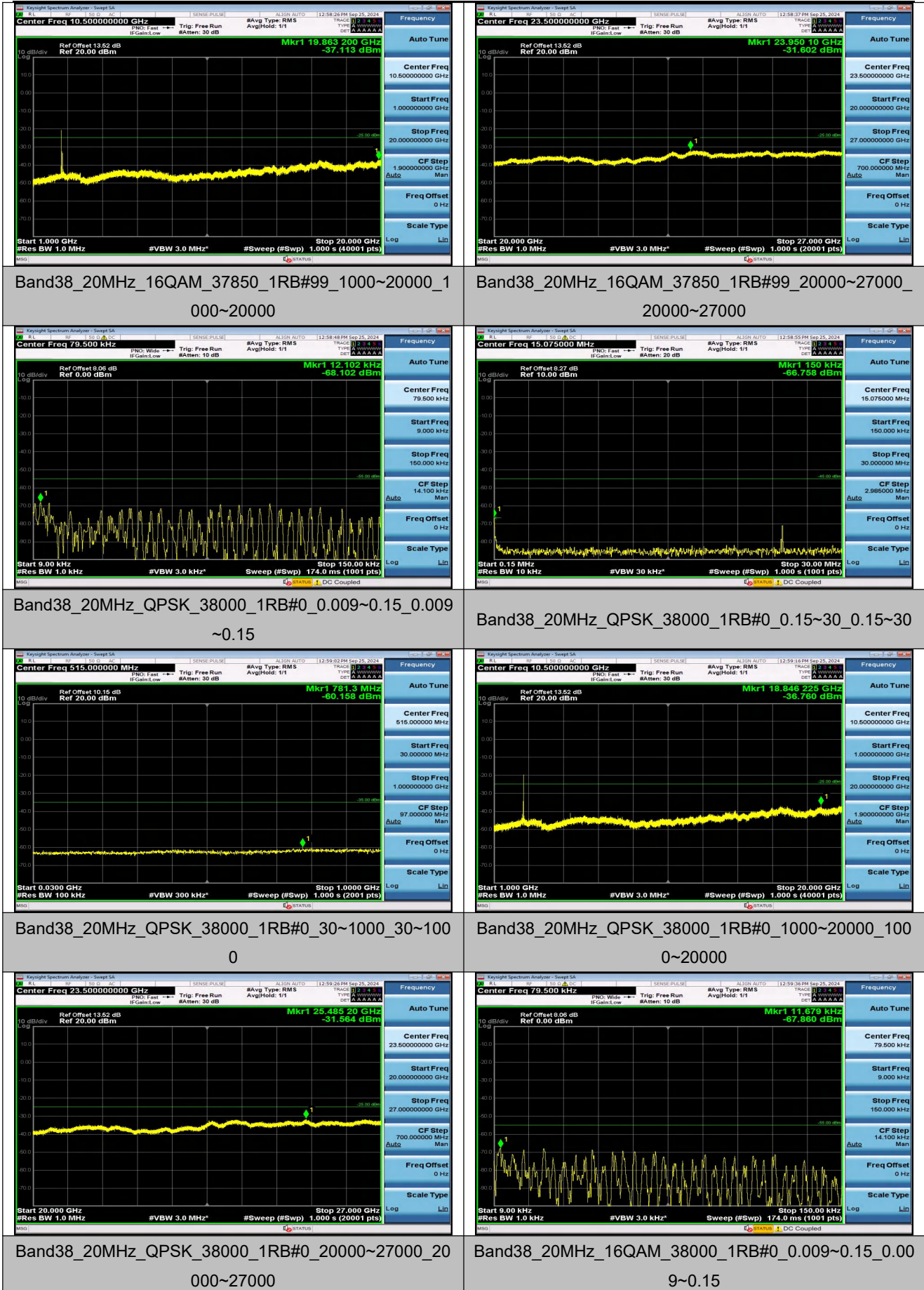
Band38_20MHz_16QAM_37850_1RB#99_0.009~0.15_0.0
09~0.15

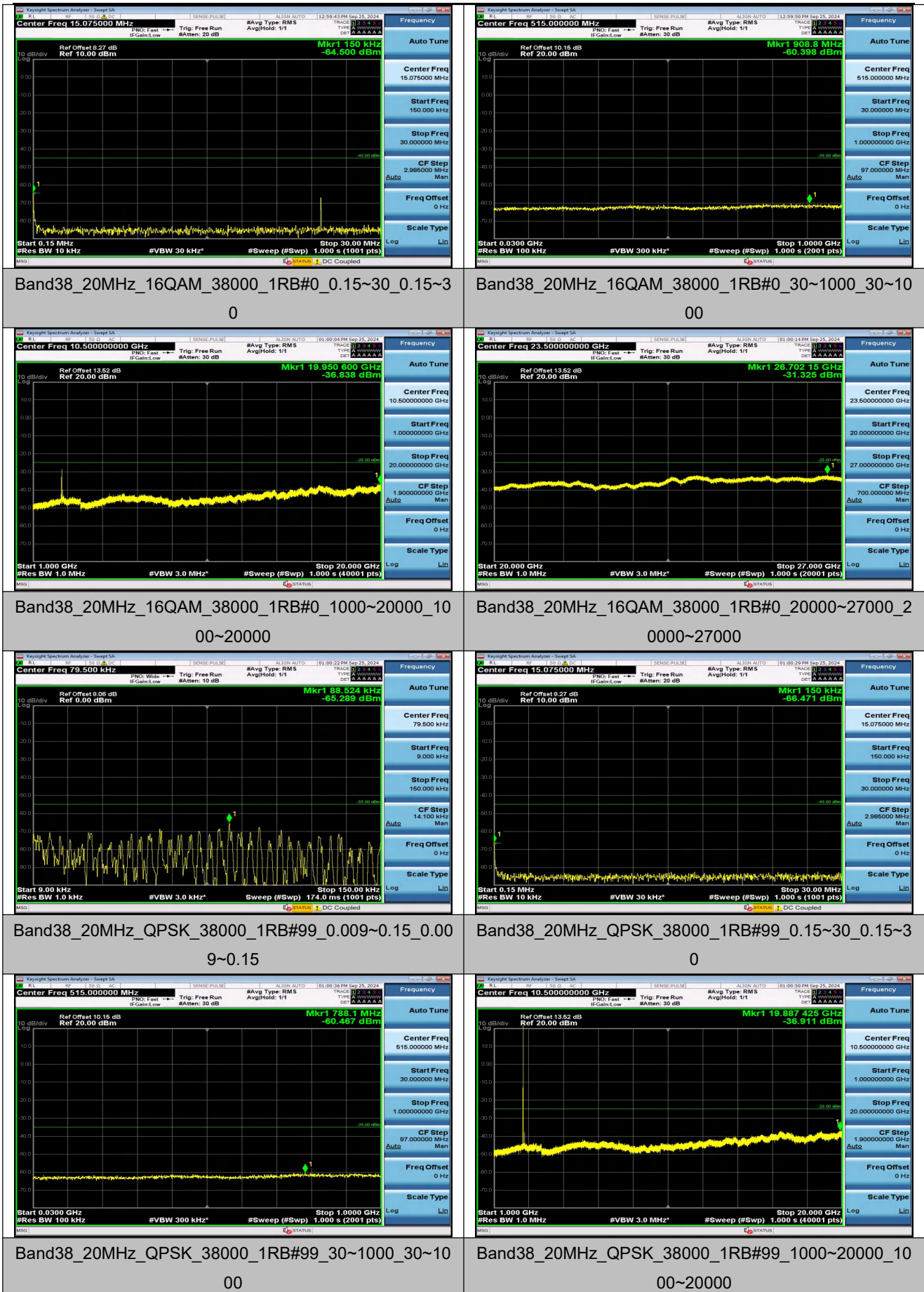


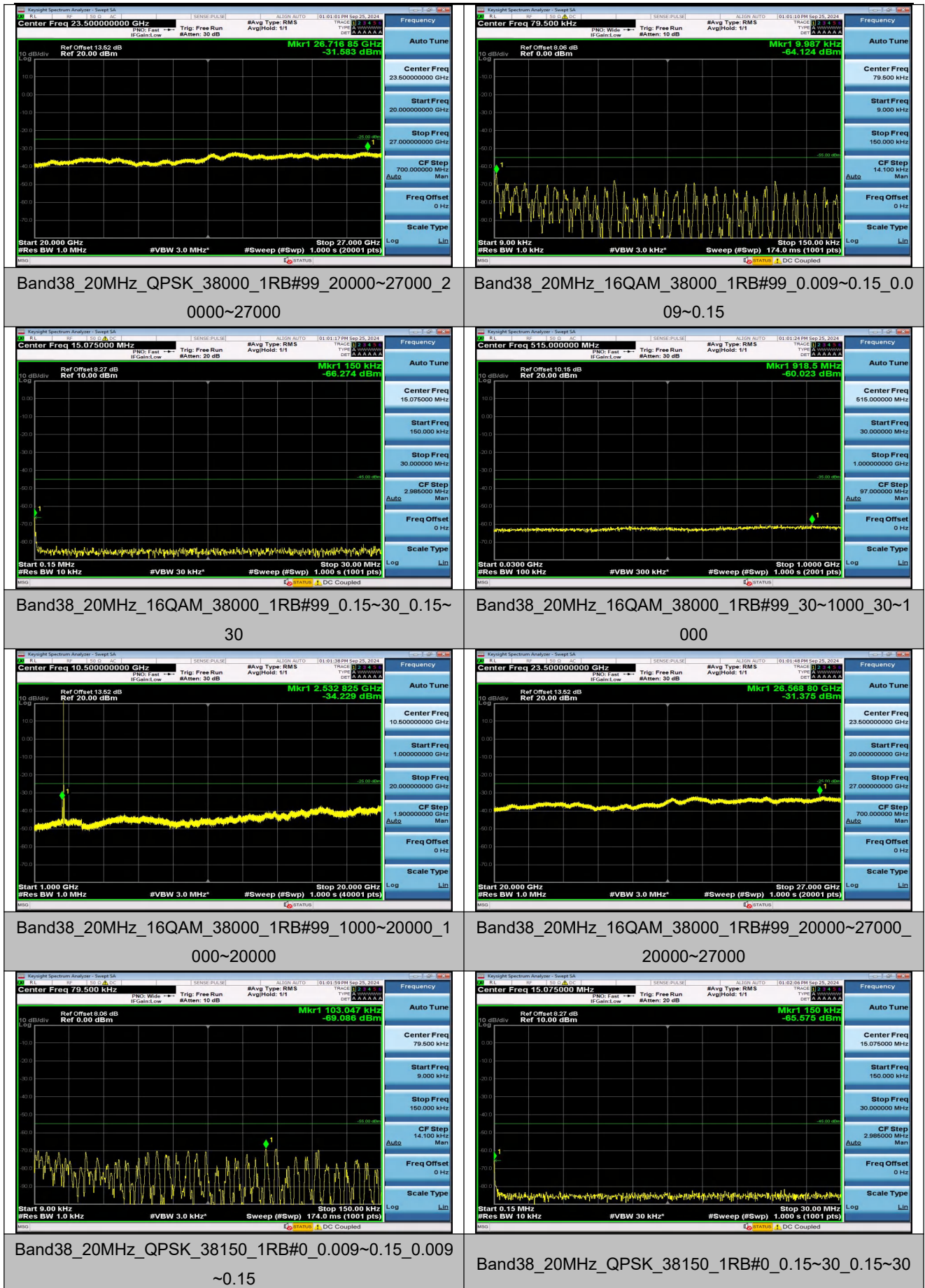
Band38_20MHz_16QAM_37850_1RB#99_0.15~30_0.15~
30

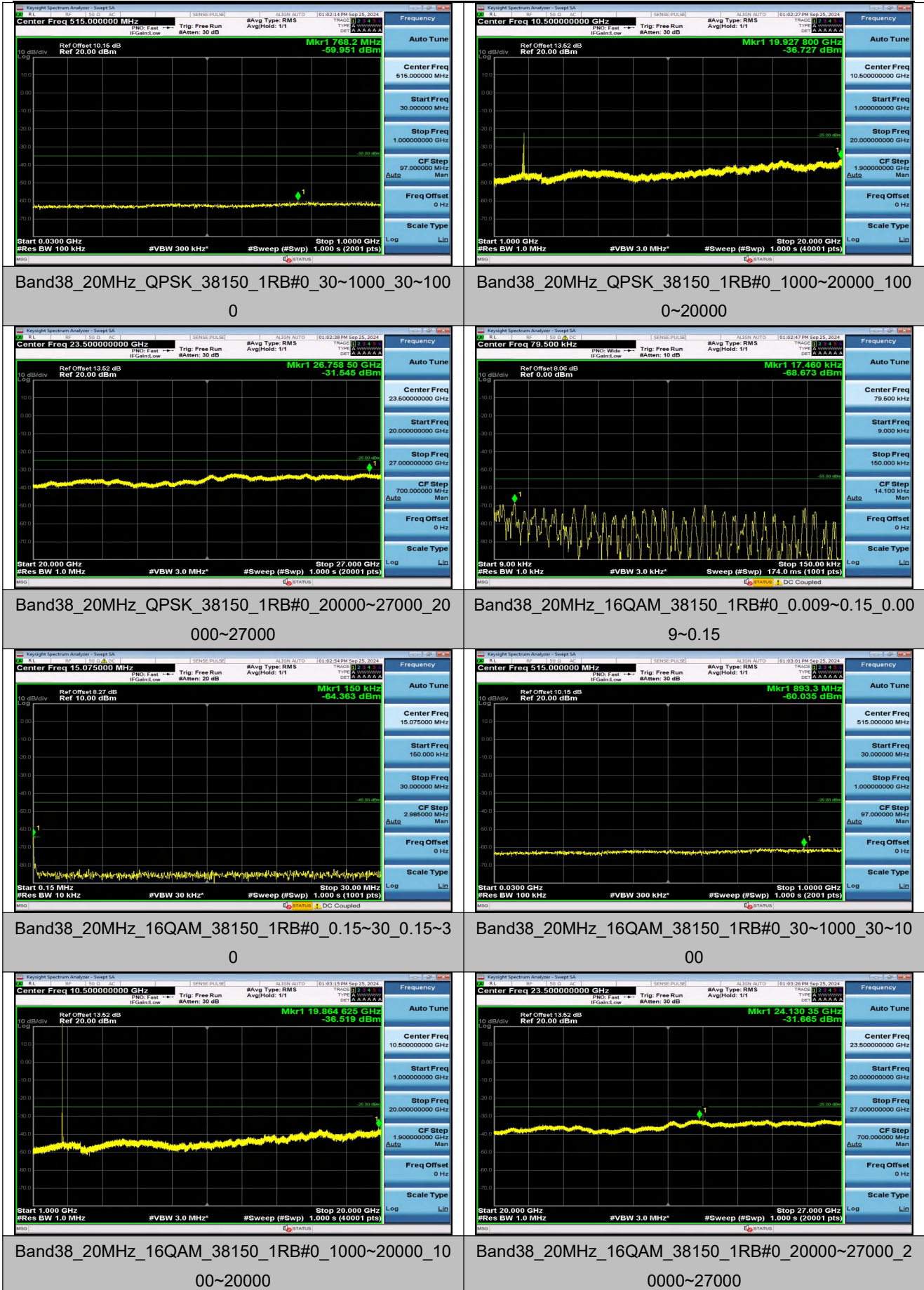


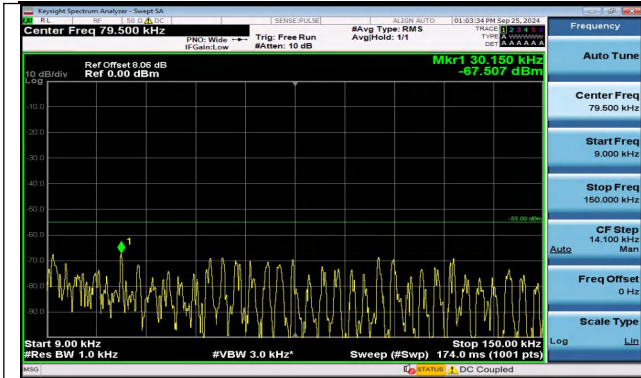
Band38_20MHz_16QAM_37850_1RB#99_30~1000_30~1
000







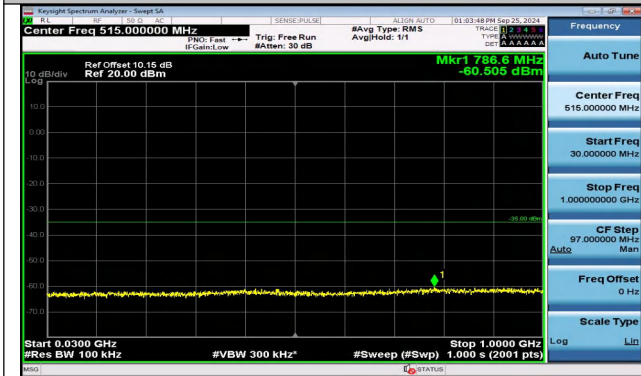




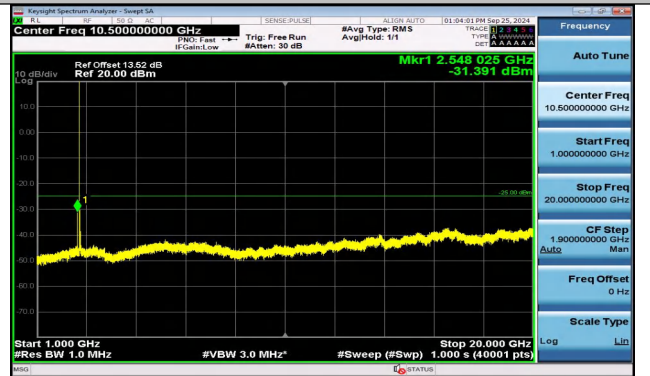
Band38_20MHz_QPSK_38150_1RB#99_0.009~0.15_0.00
9~0.15



Band38_20MHz_QPSK_38150_1RB#99_0.15~30_0.15~3
0



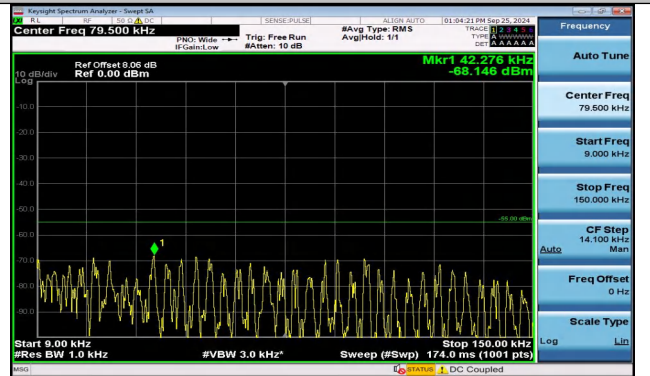
Band38_20MHz_QPSK_38150_1RB#99_30~1000_30~10
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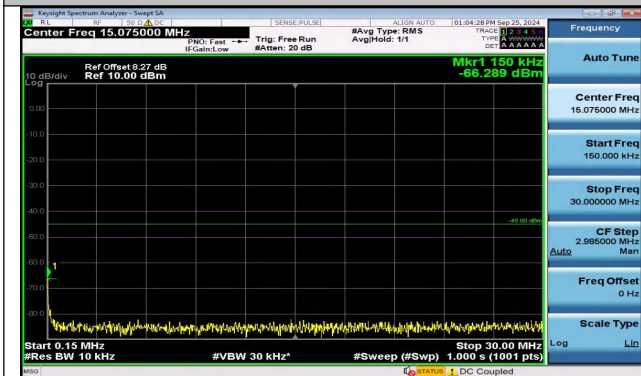
Band38_20MHz_QPSK_38150_1RB#99_1000~20000_10
00~20000



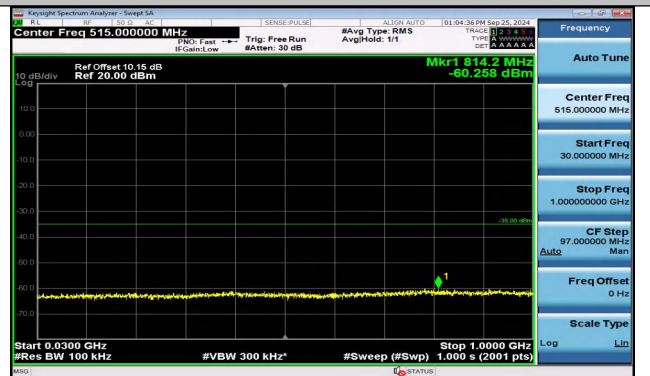
Band38_20MHz_QPSK_38150_1RB#99_20000~27000_2
0000~27000



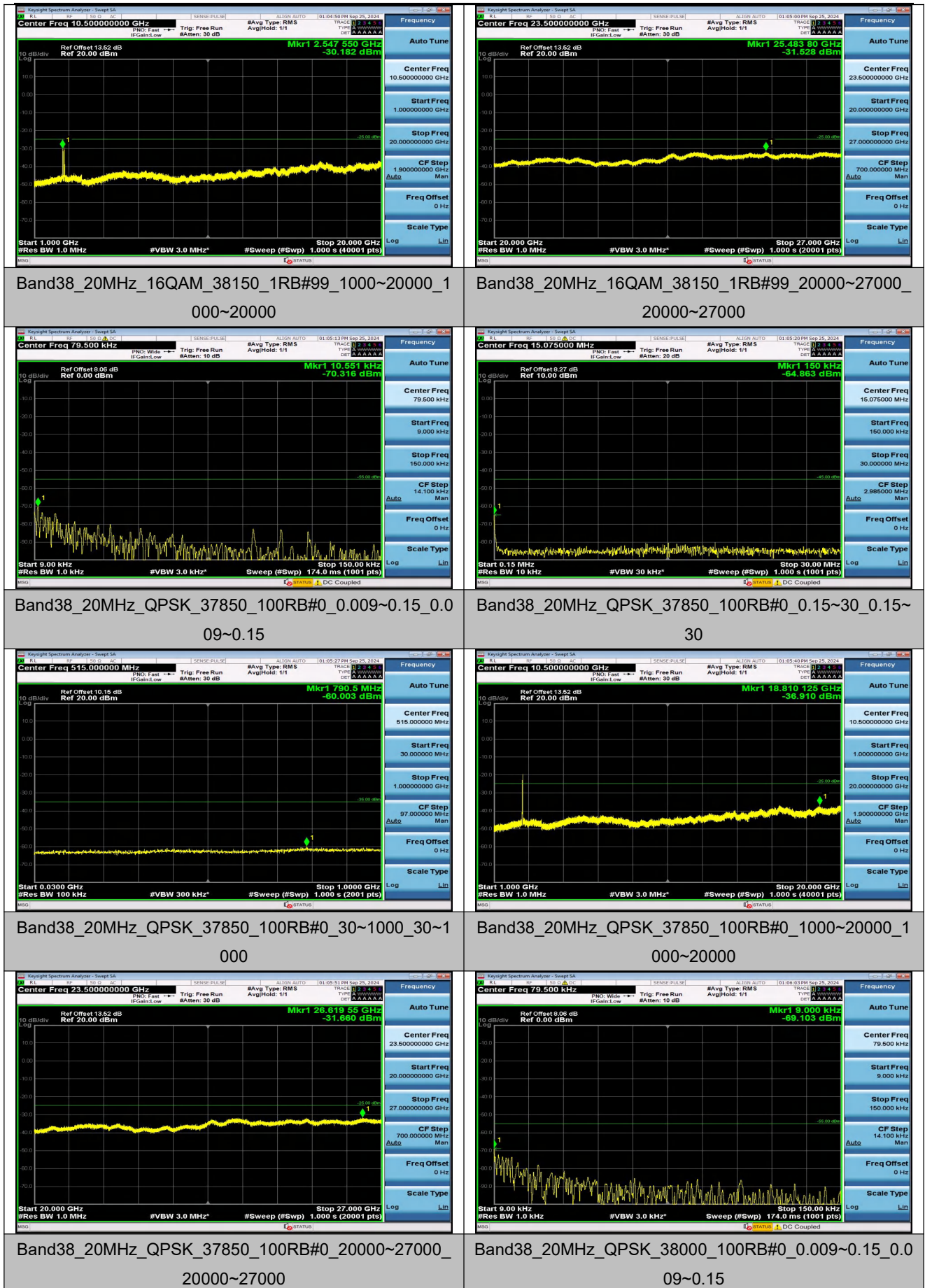
Band38_20MHz_16QAM_38150_1RB#99_0.009~0.15_0.0
09~0.15

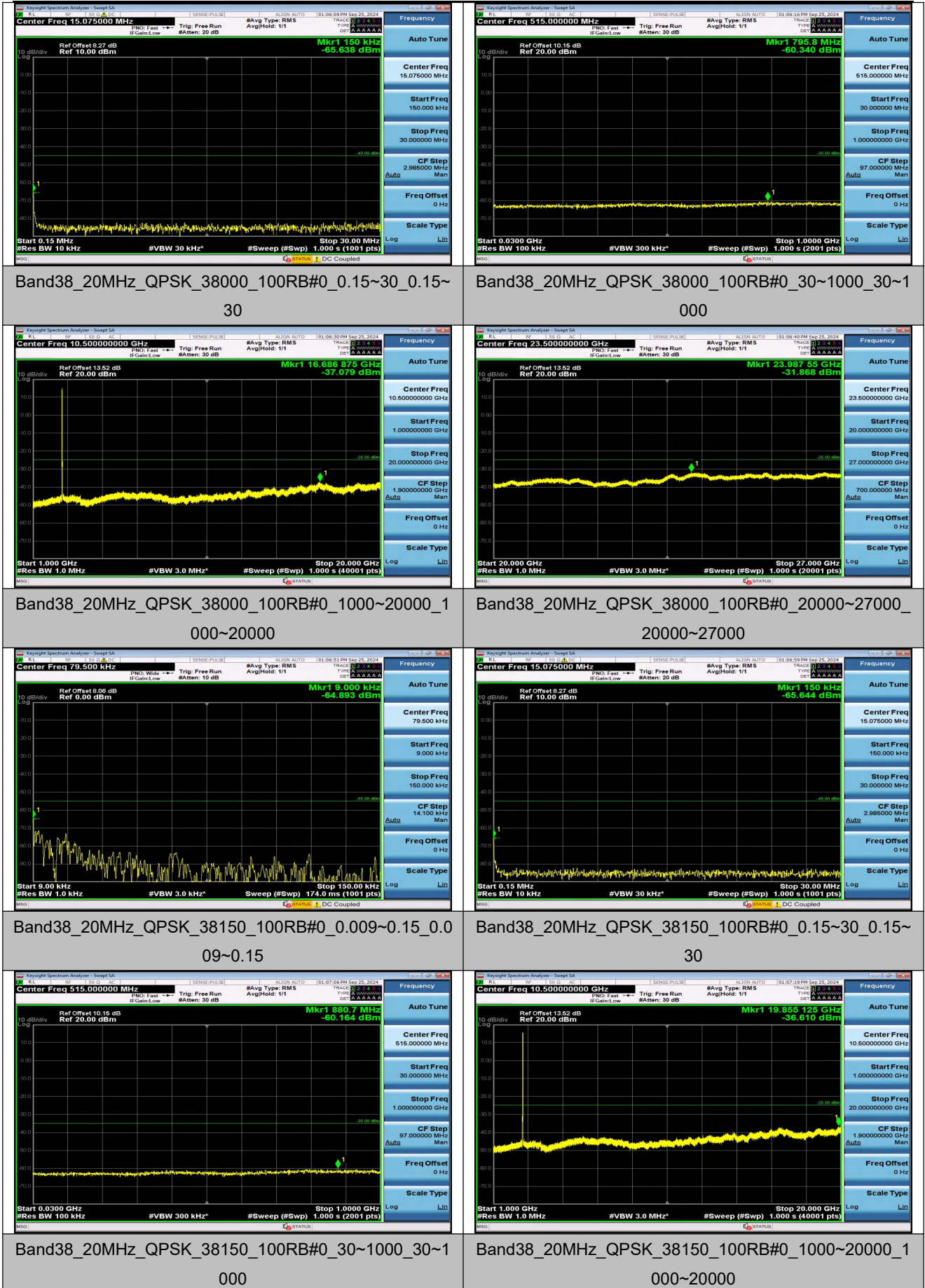


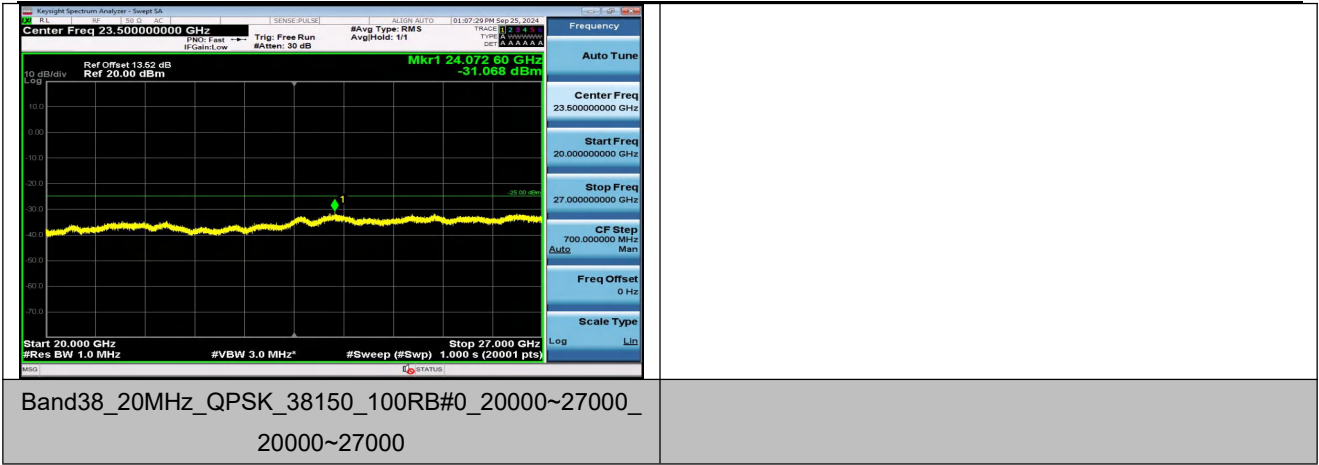
Band38_20MHz_16QAM_38150_1RB#99_0.15~30_0.15~
30



Band38_20MHz_16QAM_38150_1RB#99_30~1000_30~1
000









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	5.08	0.001975	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VL	NT	-9.93	-0.003860	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VH	NT	-54.29	-0.021104	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VN	NT	34.46	0.013396	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VL	NT	-35.42	-0.013769	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VH	NT	9.11	0.003541	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VN	NT	15.76	0.006073	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VL	NT	-80.48	-0.031013	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VH	NT	65.46	0.025225	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VN	NT	-9.50	-0.003661	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VL	NT	58.29	0.022462	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VH	NT	59.85	0.023064	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VN	NT	18.88	0.007213	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VL	NT	-15.12	-0.005777	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VH	NT	55.43	0.021177	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VN	NT	88.82	0.033933	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VL	NT	-77.66	-0.029670	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VH	NT	11.44	0.004371	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VN	NT	11.52	0.004474	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VL	NT	-12.57	-0.004882	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VH	NT	-12.15	-0.004718	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VN	NT	42.03	0.016197	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VL	NT	64.64	0.024909	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VH	NT	29.13	0.011225	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VN	NT	-76.13	-0.029113	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VL	NT	-55.56	-0.021247	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VH	NT	-55.82	-0.021346	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VN	NT	63.73	0.024726	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VL	NT	-14.23	-0.005521	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VH	NT	-77.98	-0.030254	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VN	NT	19.07	0.007349	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VL	NT	-69.69	-0.026855	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VH	NT	30.87	0.011896	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VN	NT	29.64	0.011345	±2.5	PASS



Band38	15MHz	QPSK	38175	75RB#0	VL	NT	61.48	0.023533	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VH	NT	-72.38	-0.027705	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-55.92	-0.021674	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-15.35	-0.005950	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	21.01	0.008143	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-50.13	-0.019318	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-84.84	-0.032694	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	77.48	0.029857	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-65.20	-0.024981	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	42.37	0.016234	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	28.47	0.010908	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	NV	-30	-5.74	-0.002231	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-20	-10.60	-0.004121	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-10	-14.25	-0.005539	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	0	-90.81	-0.035300	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	10	-8.05	-0.003129	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	20	-79.09	-0.030744	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	30	-9.76	-0.003794	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	40	-13.36	-0.005193	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	50	79.09	0.030744	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-30	-20.53	-0.007981	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-20	-12.47	-0.004847	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-10	84.23	0.032742	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	0	-93.17	-0.036218	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	10	48.19	0.018733	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	20	-18.00	-0.006997	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	30	-90.61	-0.035223	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	40	-11.62	-0.004517	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	50	-6.07	-0.002360	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-30	-11.52	-0.004439	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-20	-12.72	-0.004902	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-10	66.56	0.025649	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	0	-85.33	-0.032882	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	10	-46.52	-0.017927	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	20	-10.29	-0.003965	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	30	38.75	0.014933	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	40	-10.97	-0.004227	±2.5	PASS



Band38	5MHz	QPSK	38000	25RB#0	NV	50	-10.67	-0.004112	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-30	-72.30	-0.027861	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-20	-10.16	-0.003915	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-10	45.10	0.017380	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	0	77.40	0.029827	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	10	14.79	0.005699	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	20	-12.60	-0.004855	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	30	11.43	0.004405	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	40	-73.80	-0.028439	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	50	-15.79	-0.006085	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-30	90.87	0.034716	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-20	-13.23	-0.005054	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-10	-16.85	-0.006437	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	0	-23.90	-0.009131	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	10	-68.69	-0.026243	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	20	-20.11	-0.007683	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	30	-13.02	-0.004974	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	40	12.19	0.004657	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	50	-79.25	-0.030277	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-30	24.40	0.009322	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-20	86.89	0.033196	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-10	-90.71	-0.034655	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	0	-21.74	-0.008306	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	10	9.73	0.003717	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	20	35.55	0.013582	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	30	-64.69	-0.024714	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	40	11.92	0.004554	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	50	-15.28	-0.005838	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-30	-51.90	-0.020155	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-20	-72.36	-0.028101	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-10	-91.17	-0.035406	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	0	-83.03	-0.032245	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	10	-74.66	-0.028994	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	20	-74.66	-0.028994	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	30	-63.01	-0.024470	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	40	-59.85	-0.023243	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	50	79.74	0.030967	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-30	-12.80	-0.004933	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-20	77.06	0.029696	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-10	20.28	0.007815	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	0	-12.82	-0.004940	±2.5	PASS



Band38	10MHz	QPSK	38000	50RB#0	NV	10	-15.06	-0.005803	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	20	-11.29	-0.004351	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	30	-75.30	-0.029017	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	40	-8.96	-0.003453	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	50	-11.72	-0.004516	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-30	-91.52	-0.034998	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-20	68.26	0.026103	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-10	-52.94	-0.020245	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	0	-16.08	-0.006149	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	10	-11.59	-0.004432	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	20	21.41	0.008187	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	30	-76.16	-0.029124	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	40	-15.91	-0.006084	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	50	25.85	0.009885	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-30	23.15	0.008982	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-20	14.36	0.005571	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-10	45.98	0.017839	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	0	-71.14	-0.027600	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	10	-14.72	-0.005711	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	20	-95.87	-0.037195	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	30	-80.55	-0.031251	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	40	-9.71	-0.003767	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	50	-35.49	-0.013769	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-30	-19.13	-0.007372	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-20	-63.19	-0.024351	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-10	35.19	0.013561	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	0	-12.86	-0.004956	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	10	43.86	0.016902	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	20	-13.56	-0.005225	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	30	-12.17	-0.004690	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	40	18.78	0.007237	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	50	29.40	0.011329	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-30	32.24	0.012341	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-20	-74.30	-0.028440	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-10	-96.30	-0.036861	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	0	-50.27	-0.019242	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	10	-51.43	-0.019686	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	20	-21.94	-0.008398	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	30	28.68	0.010978	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	40	57.42	0.021979	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	50	-13.60	-0.005206	±2.5	PASS



Band38	20MHz	QPSK	37850	100RB#0	NV	-30	33.37	0.012934	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-54.43	-0.021097	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-45.38	-0.017589	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-55.10	-0.021357	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-49.08	-0.019023	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-10.63	-0.004120	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	11.44	0.004434	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-77.42	-0.030008	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	23.76	0.009209	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-13.92	-0.005364	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-44.15	-0.017013	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-88.61	-0.034146	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	27.85	0.010732	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-70.25	-0.027071	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-4.29	-0.001653	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-49.30	-0.018998	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	34.72	0.013380	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-43.33	-0.016697	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	70.51	0.027015	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	67.29	0.025782	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-12.07	-0.004625	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-85.00	-0.032567	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	30.90	0.011839	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-90.07	-0.034510	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-11.19	-0.004287	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	14.99	0.005743	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-57.78	-0.022138	±2.5	PASS